# Product Reference Guide




INA USA CORPORATION

CATALOG PRG

# PRODUCT REFERENCE GUIDE

**CORPORATE OFFICES**
308 SPRINGHILL FARM ROAD
FORT MILL, SOUTH CAROLINA 29715

TELEPHONE (803)548-8500
FAX (803)548-8599

**DISTRIBUTOR CUSTOMER SERVICE**
TOLL FREE 800-523-6572
FAX (803)548-8594

# FOREWORD

This publication was designed to serve as a quick reference to the standard product series offered by INA USA Corporation (INA) for its domestic market. The guide provides a current overview of INA products, including basic envelope dimensions and capacities, in one publication – it is not an engineering design guide intended to replace INA engineering catalogs. Consequently, the metric and inch conversions are listed to 3 decimal places for easy reference and rapid identification of correct replacement part(s), not 4 decimal places as necessary for quality control purposes.

This publication can be used to narrow the choices between the many different INA product lines and series for new designs. Detailed engineering information for new designs can be found in our traditional catalogs or by contacting the INA Engineering Department.

A significant portion of INA sales are special production sizes. The identification of those parts is sometimes difficult since a comprehensive listing is beyond the intent of this publication. Special part numbers take as many different forms as the series listed here, but the basic system is to use sequential numbers for each new design. Usually the prefix is F or FC but can include VH, INA or the bearing type such as NA. INA maintains a technical help desk to identify sizes not known or to match competitors' parts.

The toll free 800 numbers listed will give you access to INA Customer Service representatives. These representatives can tap into INA Worldwide resources to provide the bearings you need.

**Storage Life**

Lubricants age naturally due to environmental influences. It is therefore the user's responsibility to follow the directions given by the lubricant manufacturer.

The greases used in INA rolling bearings have a mineral oil base and experience shows that they can be stored for up to 3 years without deteriorating providing the following important conditions are met.

- Closed storage room
- Temperature between 0°C and 40°C
- Relative atmospheric humidity 65% or less
- Security from chemical agents (vapors, gases, fluids)
- Sealed rolling bearings

The frictional torque can be considerably higher after linger storage periods than in freshly greased bearings and the lubricity of the grease can also have deteriorated.

INA bearings have many optional features available including:

- ISO series of bearings generally include the standard clearance options CN, C2, C3 and C4.
- ISO bearing series include PN, P6 and P5 precision classes.
- Corrotect™ plating is available for most bearing designs. Corrotect is a patented process for zinc–iron and zinc–iron–cobalt plating in a thin layer which can be applied to standard components. The protection exceeds stainless steel and the cost is half. Add suffix RR.
- All sealed bearings are supplied pregreased. In most cases the standard lubricant is Shell Retinax LX 2 or equivalent. Other greases are available, some at extra cost.
- Unsealed bearings may not be greased when shipped.
- Speed limits as published, are based on oil lubrication for open bearings or grease lubrication for sealed bearings. The speed limits are calculated based on a nominal load and heat balance equation. Higher speeds may be allowed depending on the application.
- Dynamic capacities are published based on INA standard usage of ISO and ABMA formulas. New life theory threshold values are published in other INA publications.
- Life calculations and evaluations can be made from INA engineering based catalogs which are available from your INA Sales Representative.
- Other features are available based on current production volumes including heat stabilization of the rings, matched bearing sets, with oil holes and grooves, etc.

| | |
|---|---|
| ABMA | American Bearing Manufacturers Association |
| ASTM | American Society Of Testing And Materials |
| DIN | Deutsches Institut für Normung e.V. |
| ISO | International Standards Organization |

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308 Springhill Farm Road
Fort Mill, SC 29715

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All sales from catalog orders are subject to the Standard Terms and Conditions of Sale. Please contact your INA Sales Representative for a copy of the Standard Terms and Conditions of Sale.

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# Use of INA Part Numbers & Suffixes

INA has extra options to give you the maximum flexibility in answering customer needs.
Cage styles, seal types, internal clearances, and needle sorts are available to help you select the right part for your customers.

**UG** - Shell type open bearings come standard without grease (Example: SCE87 UG)
**AA040** - Shell type sealed bearings come standard with 40% Retinax LX2 (Example: SCE8799 AA040)
**0-7** - Radial needle roller & cage assemblies come standard with 0-7 Micron Needle Sorts
(Example: NRA5X49.8G2 0-7, K25X33X24B 0-7)

*The table below provides a quick reference regarding our part numbers and integral suffixes. See each part section for part number schematics.*

| PART / SUFFIX | DEFINITION | EXAMPLE |
|---|---|---|
| HK1010, SCE86PP | INA Part Number | SCE87, PASE1-1/2, RA100RR |
| 2RS | 2 Lip Seals | 62032RS, 3200J2RS |
| 2Z | 2 Gap Shields | 62032Z, 3300J2Z |
| J | Steel Cage | 52100J, 3200J |
| KDD, KDDU | 2 Gap Shields | LR5208KDD, LR5307KDDU |
| M | Bronze Cage | 930M, 89460M |
| NPP, NPPU | 2 Lip Seals | GRA100NPPB, LR5202NPPU |
| PP | 2 Lip Seals | SCE87PP |
| RR | 2 Land Riding Seals | G1103KRRB, RA100RR |
| TN | Plastic Cage | 81102TN, 87410TN |
| X | Cylindrical OD for Track Rollers | NATV20PPX, NUTR20X |
| - | Normal Clearance | 6203, 62032RS |
| C2 | C2 Clearance | 6302 C2, 63022Z C2 |
| C3 | C3 Clearance | 6205 C3, 62052RS C3 |
| C4 | C4 Clearance | 5305J C4, 6210 C4 |
| AA040 | 40% - Shell Retinax LX2 | HK1010 AA040 |
| UG | Ungreased / Corrosion Protected | HK1010 UG |
| 0-7 | 0-7 Micron - Needle Sort | NRA5X49.8G2 0-7, K25X33X24B 0-7 |
| 0-10 | 0-10 Micron - Needle Sort | AXK6590 0-10 |

# PRODUCT REFERENCE GUIDE




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| SCH | OPEN END HEAVY INCH CAGED SHELL | 7 |
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| BK..RS | CLOSED END SEALED METRIC CAGED SHELL | 12 |
| SCH..PP | OPEN END SEALED INCH CAGED SHELL | 12 |
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# General Information
## NEEDLE BEARINGS

### PRODUCT DESCRIPTION

**INA Drawn Shell Needle Bearings**

- Deep Drawn Shell design for maximum capacity in the minimum radial space.
- Cage guided needle rollers for low friction, whole roller loading and high speeds.
- Available in standard inch and metric series with seals available as an option.
- Available open for through shaft locations or with one end closed for shaft end locations to improve sealing.
- Available in alternate design styles as full complement mechanically retained or full complement grease retained.
- Easily mounted without snap rings or shoulders.

**INA Cage And Roller Assemblies**

- Combinations of needle rollers within various retainer designs for use with hardened shaft and housing.
- Retainer guides needles providing full length roller contact for maximum capacity, low friction and long life.
- Cages allow easy assembly compared to full sets of loose needles and adapt to higher misalignments.
- Cages are available in various materials and designs as required by the applications, such as KZK and KBK for crankpin and wristpin locations.

**INA Precision Ground Needle Bearings**

- Through hardened machined and ground raceways with cage and roller complements.
- Retainer guides needles providing full length roller contact for maximum capacity, low friction and long life.
- Design series exist to match ISO, DIN, popular metric and inch dimension series.
- Available with seals, higher precision or heat stabilization.
- Location hole and groove in outer ring.

**INA Self Aligning Needle Bearings**

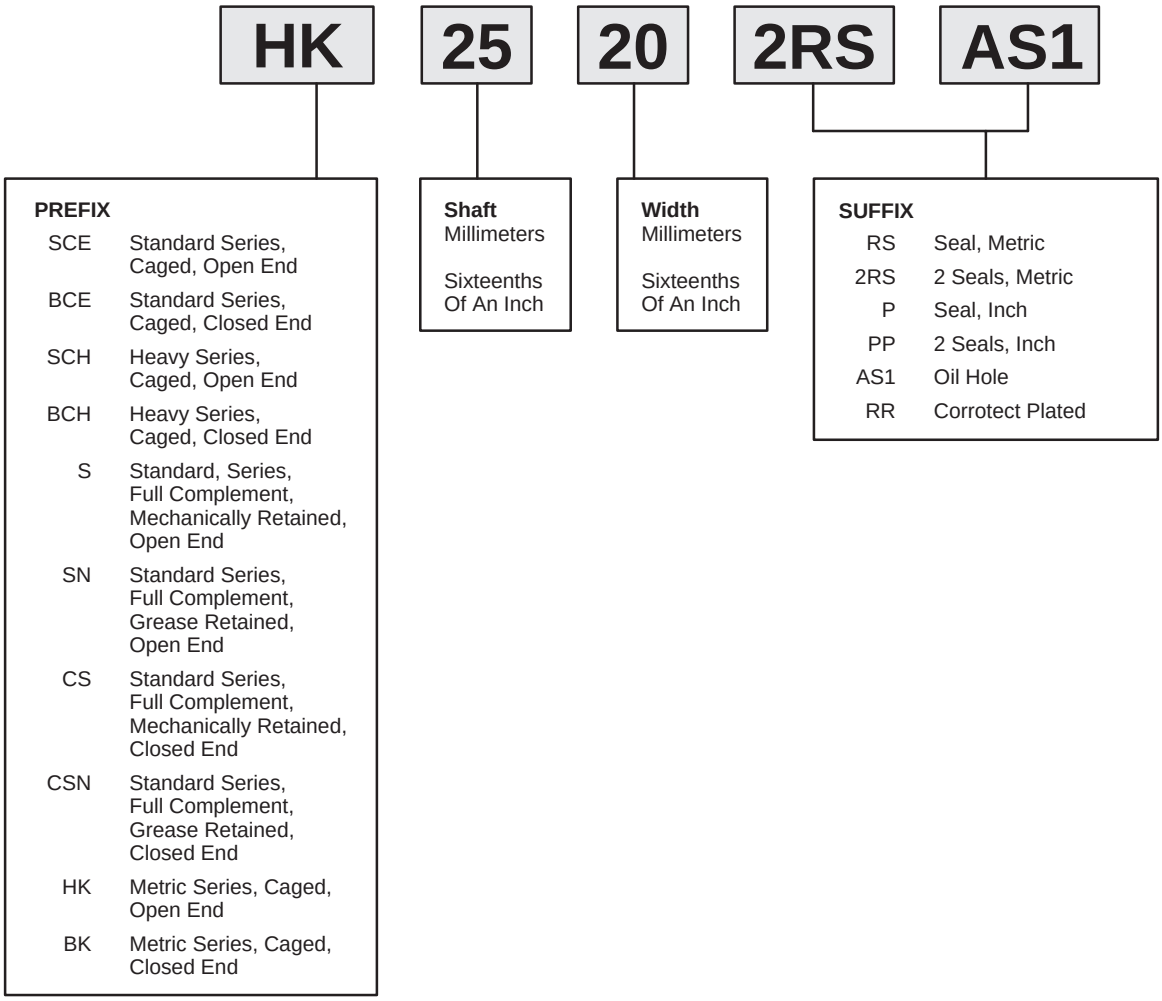
- Precision ground needle bearing with cage and roller complement.
- Internal spherical seat to statically realign.
- Allows for initial static misalignment up to 3°.
- Plastic aligning seats and raceway are captured within a drawn shell for ease of assembly.

# Part Number Identification
## NEEDLE BEARINGS

### DRAWN SHELL NEEDLE BEARINGS

**INCH SERIES**
**SCE, BCE, SCH, BCH, SN, CS, CSN**

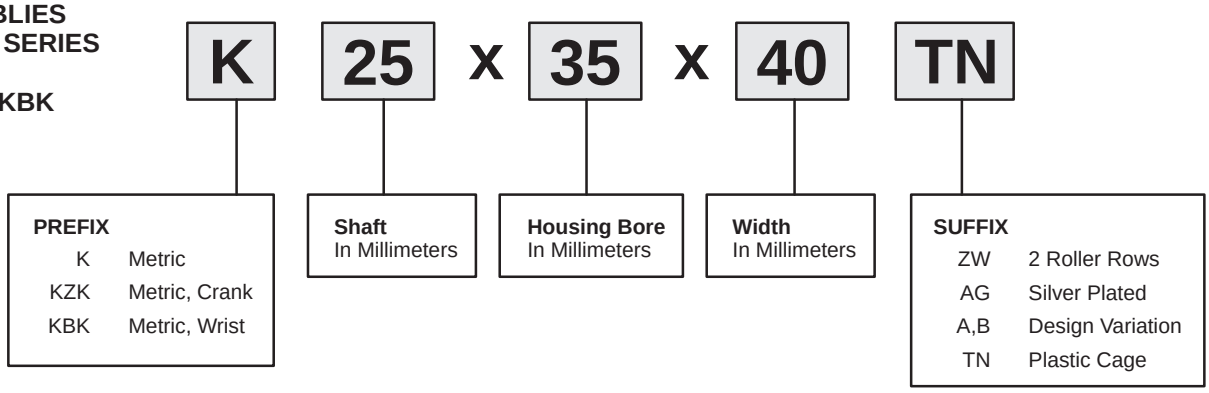
**METRIC SERIES**
**HK, BK**



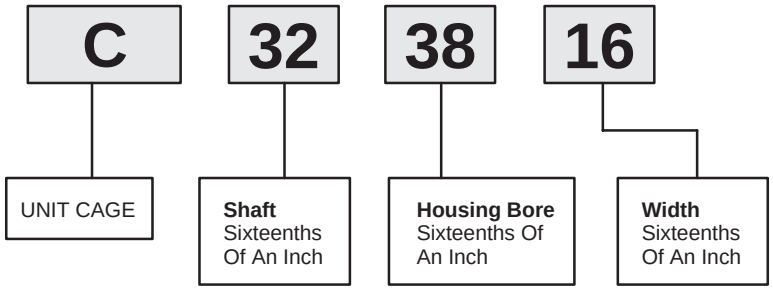
# Part Number Identification
## NEEDLE BEARINGS

### CAGE AND ROLLER ASSEMBLIES METRIC SERIES

**K, KZK, KBK**

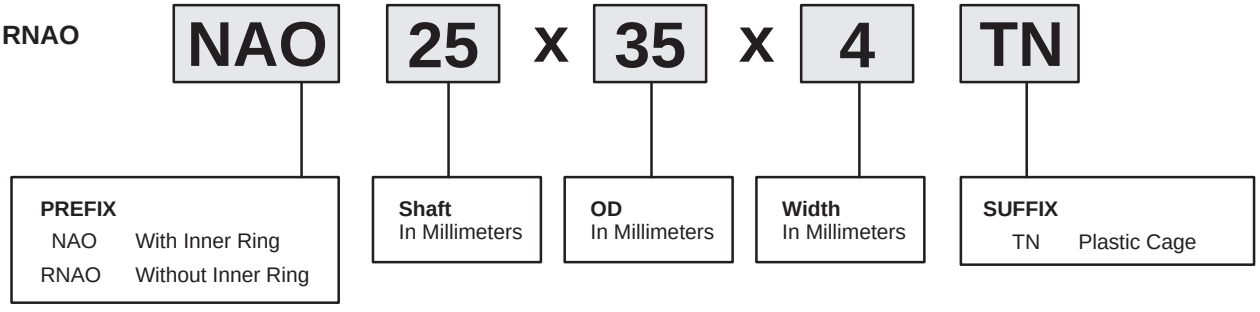



### UNIT CAGES INCH SERIES




### RADIAL NEEDLE BEARINGS WITHOUT RIBS METRIC SERIES

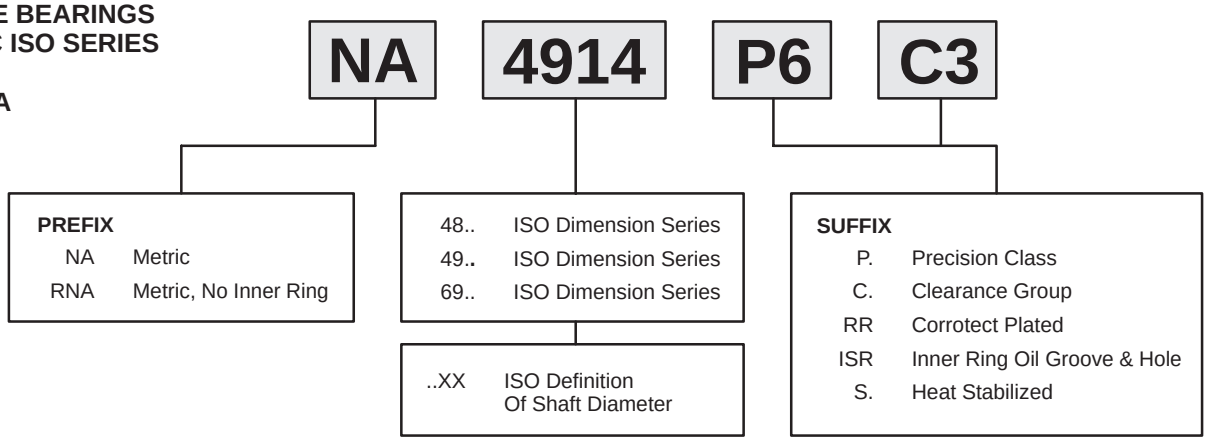
**NAO, RNAO**



# Part Number Identification
## NEEDLE BEARINGS

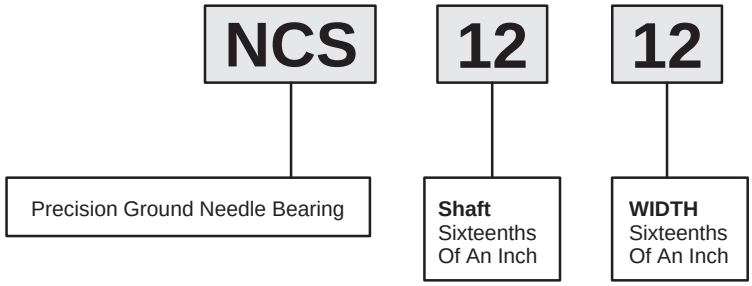
### PRECISION GROUND NEEDLE BEARINGS METRIC ISO SERIES

**NA, RNA**



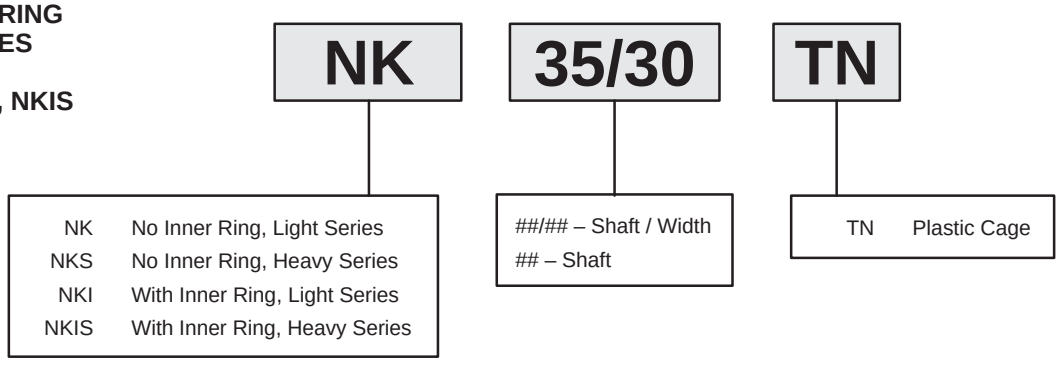

### PRECISION GROUND BEARINGS INCH SERIES

**NCS**




### PRECISION GROUND RADIAL NEEDLE BEARING METRIC SERIES

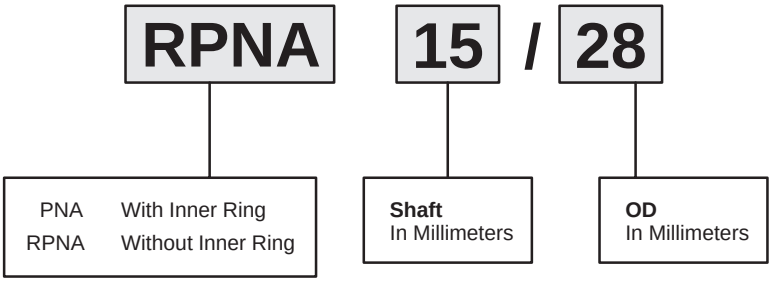
**NK, NKS, NKI, NKIS**



# Part Number Identification
## NEEDLE BEARINGS

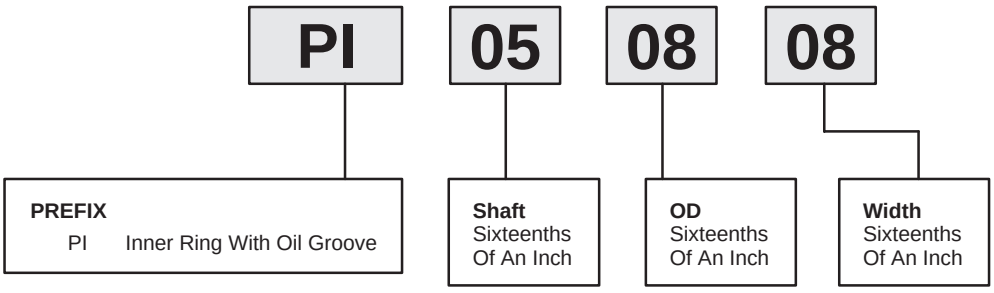
### ALIGNING NEEDLE ROLLER BEARINGS
### METRIC SERIES

**PNA, RPNA**



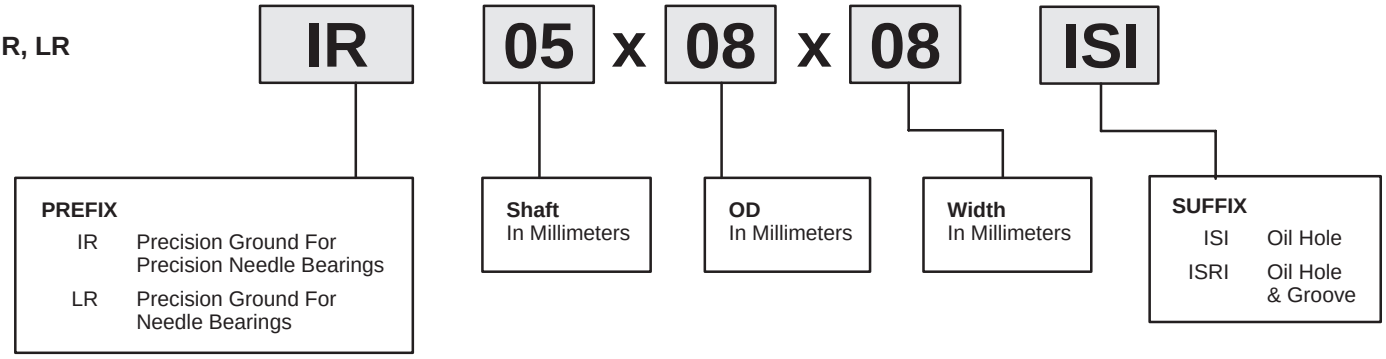

### INNER RINGS
### INCH SERIES

**PI**




### INNER RINGS
### METRIC SERIES

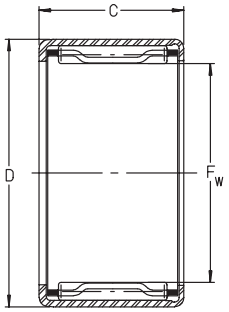
**IR, LR**



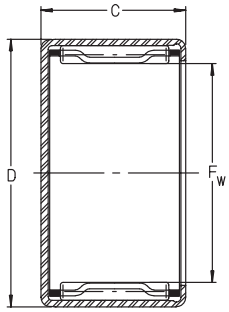
# Shell Bearings

## CAGE GUIDED NEEDLE ROLLER BEARING SERIES

- Drawn cup
- Combined inch and metric sizes
- Open for through shafts
- Closed for shaft ends




SCE, SCH, HK




BCE, BCH, BK

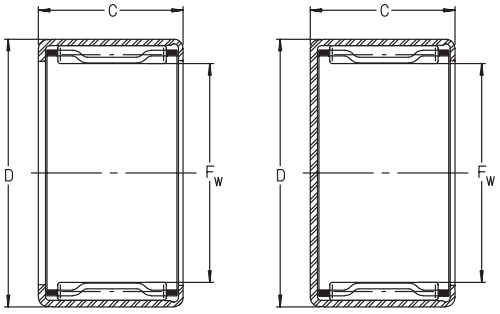
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER OPEN END | PART NUMBER CLOSED END | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HK 0306 TN | BK 0306 TN | 0.118 | 3 | 0.256 | 6.5 | 0.236 | 6 | 0.002 | 1 | 275 | 1,230 | 189 | 840 | 46,000 |
| SCE24TN | BCE24TN | 0.125 | 3.175 | 0.250 | 6.350 | 0.250 | 6.350 | 0.003 | 1 | 240 | 1,070 | 165 | 740 | 31,500 |
| SCE2–1/2–4 | | 0.156 | 3.969 | 0.281 | 7.145 | 0.250 | 6.350 | 0.003 | 1 | 285 | 1,260 | 211 | 940 | 25,000 |
| SCE2–1/2–4TN | | 0.156 | 3.969 | 0.281 | 7.145 | 0.250 | 6.350 | 0.003 | 1 | 275 | 1,230 | 204 | 910 | 25,000 |
| HK 0408 | BK 0408 | 0.157 | 4 | 0.315 | 8 | 0.315 | 8 | 0.004 | 2 | 400 | 1,780 | 295 | 1,310 | 41,000 |
| SCE34TN | BCE34TN | 0.187 | 4.762 | 0.344 | 8.731 | 0.250 | 6.350 | 0.003 | 1 | 400 | 1,790 | 305 | 1,360 | 21,000 |
| SCE36TN | BCE36TN | 0.187 | 4.762 | 0.344 | 8.731 | 0.375 | 9.525 | 0.004 | 2 | 620 | 2,750 | 530 | 2,350 | 21,000 |
| SCE36 | | 0.187 | 4.762 | 0.344 | 8.731 | 0.375 | 9.530 | 0.004 | 2 | 630 | 2,800 | 550 | 2,440 | 21,000 |
| HK 0509 | BK 0509 | 0.197 | 5 | 0.354 | 9 | 0.354 | 9 | 0.004 | 2 | 540 | 2,400 | 445 | 1,990 | 38,000 |
| HK 0608 | | 0.236 | 6 | 0.394 | 10 | 0.315 | 8 | 0.005 | 2 | 455 | 2,030 | 370 | 1,650 | 35,000 |
| HK 0609 | BK 0609 | 0.236 | 6 | 0.394 | 10 | 0.354 | 9 | 0.006 | 3 | 640 | 2,850 | 590 | 2,600 | 35,000 |
| SCE44 | BCE44 | 0.250 | 6.350 | 0.437 | 11.112 | 0.250 | 6.350 | 0.005 | 2 | 360 | 1,600 | 260 | 1,200 | 44,000 |
| SCE45 | BCE45 | 0.250 | 6.350 | 0.437 | 11.112 | 0.313 | 7.938 | 0.006 | 3 | 570 | 2,500 | 470 | 2,090 | 44,000 |
| SCE47 | BCE47 | 0.250 | 6.350 | 0.437 | 11.112 | 0.437 | 11.112 | 0.009 | 4 | 920 | 4,000 | 870 | 3,850 | 44,000 |
| HK 0709 | BK 0709 | 0.276 | 7 | 0.433 | 11 | 0.354 | 9 | 0.006 | 3 | 700 | 3,100 | 660 | 2,950 | 31,000 |
| SCE55 | BCE55 | 0.313 | 7.938 | 0.500 | 12.700 | 0.313 | 7.938 | 0.008 | 4 | 650 | 2,900 | 590 | 2,600 | 35,500 |
| SCE57 | BCE57 | 0.313 | 7.938 | 0.500 | 12.700 | 0.437 | 11.112 | 0.013 | 6 | 1,060 | 4,700 | 1,090 | 4,850 | 35,500 |
| SCE59 | BCE59 | 0.313 | 7.938 | 0.500 | 12.700 | 0.563 | 14.288 | 0.014 | 6 | 1,340 | 6,000 | 1,480 | 6,600 | 35,500 |
| SCH57 | BCH57 | 0.313 | 7.938 | 0.563 | 14.288 | 0.437 | 11.112 | 0.015 | 7 | 1,070 | 4,750 | 930 | 4,100 | 35,500 |
| HK 0808 | BK 0808 | 0.315 | 8 | 0.472 | 12 | 0.315 | 8 | 0.006 | 3 | 620 | 2,750 | 590 | 2,600 | 28,000 |
| HK 0810 | BK 0810 | 0.315 | 8 | 0.472 | 12 | 0.394 | 10 | 0.007 | 3 | 850 | 3,800 | 890 | 3,950 | 28,000 |
| HK 0908 | | 0.354 | 9 | 0.512 | 13 | 0.315 | 8 | 0.007 | 3 | 870 | 3,850 | 930 | 4,150 | 25,000 |
| HK 0910 | BK 0910 | 0.354 | 9 | 0.512 | 13 | 0.394 | 10 | 0.009 | 4 | 960 | 4,250 | 1,050 | 4,650 | 25,000 |
| HK 0912 | BK 0912 | 0.354 | 9 | 0.512 | 13 | 0.472 | 12 | 0.01 | 5 | 1,190 | 5,300 | 1,420 | 6,300 | 25,000 |
| SCE65 | BCE65 | 0.375 | 9.525 | 0.563 | 14.288 | 0.313 | 7.938 | 0.007 | 3 | 650 | 2,900 | 610 | 2,700 | 29,500 |
| SCE66 | BCE66 | 0.375 | 9.525 | 0.563 | 14.288 | 0.375 | 9.525 | 0.009 | 4 | 870 | 3,900 | 890 | 3,950 | 29,500 |
| SCE67 | BCE67 | 0.375 | 9.525 | 0.563 | 14.288 | 0.437 | 11.112 | 0.011 | 5 | 980 | 4,350 | 1,030 | 4,600 | 29,500 |
| SCE68 | BCE68 | 0.375 | 9.525 | 0.563 | 14.288 | 0.500 | 12.700 | 0.013 | 6 | 1,300 | 5,800 | 1,490 | 6,600 | 29,500 |
| SCE610 | BCE610 | 0.375 | 9.525 | 0.563 | 14.288 | 0.625 | 15.875 | 0.015 | 7 | 1,660 | 7,400 | 2,040 | 9,000 | 29,500 |
| SCH68 | BCH68 | 0.375 | 9.525 | 0.625 | 15.875 | 0.500 | 12.700 | 0.020 | 9 | 1,590 | 7,100 | 1,590 | 7,100 | 29,500 |
| HK 1010 | BK 1010 | 0.394 | 10 | 0.551 | 14 | 0.394 | 10 | 0.009 | 4 | 990 | 4,400 | 1,150 | 5,100 | 23,000 |
| HK 1012 | BK 1012 | 0.394 | 10 | 0.551 | 14 | 0.472 | 12 | 0.011 | 5 | 1,240 | 5,500 | 1,530 | 6,800 | 23,000 |
| HK 1015 | BK 1015 | 0.394 | 10 | 0.551 | 14 | 0.591 | 15 | 0.013 | 6 | 1,530 | 6,800 | 1,980 | 8,800 | 23,000 |
| SCE78 | BCE78 | 0.437 | 11.112 | 0.625 | 15.875 | 0.500 | 12.700 | 0.016 | 7 | 1,430 | 6,400 | 1,760 | 7,800 | 25,000 |
| SCE710 | | 0.437 | 11.112 | 0.625 | 15.875 | 0.625 | 15.875 | 0.020 | 9 | 1,830 | 8,100 | 2,400 | 10,700 | 25,000 |
| SCH78 | BCH78 | 0.438 | 11.112 | 0.688 | 17.462 | 0.500 | 12.700 | 0.020 | 9 | 1,760 | 7,900 | 1,840 | 8,200 | 25,000 |
| HK 1210 | BK 1210 | 0.472 | 12 | 0.630 | 16 | 0.394 | 10 | 0.01 | 5 | 1,110 | 4,950 | 1,390 | 6,200 | 20,000 |
| HK 1212 | BK 1212 | 0.472 | 12 | 0.709 | 18 | 0.472 | 12 | 0.02 | 9 | 1,460 | 6,500 | 1,640 | 7,300 | 19,000 |
| SCE85 | BCE85 | 0.500 | 12.700 | 0.687 | 17.462 | 0.313 | 7.938 | 0.009 | 4 | 820 | 3,650 | 890 | 3,950 | 22,000 |
| SCE86 | BCE86 | 0.500 | 12.700 | 0.687 | 17.462 | 0.375 | 9.525 | 0.011 | 5 | 1,040 | 4,600 | 1,210 | 5,400 | 22,000 |
| SCE87 | BCE87 | 0.500 | 12.700 | 0.687 | 17.462 | 0.437 | 11.112 | 0.013 | 6 | 1,330 | 5,900 | 1,660 | 7,400 | 22,000 |
| SCE88 | BCE88 | 0.500 | 12.700 | 0.687 | 17.462 | 0.500 | 12.700 | 0.016 | 7 | 1,550 | 6,900 | 2,030 | 9,000 | 22,000 |
| SCE810 | BCE810 | 0.500 | 12.700 | 0.687 | 17.462 | 0.625 | 15.875 | 0.021 | 9 | 1,980 | 8,800 | 2,750 | 12,300 | 22,000 |
| SCE812 | BCE812 | 0.500 | 12.700 | 0.687 | 17.462 | 0.750 | 19.050 | 0.025 | 11 | 2,230 | 9,900 | 3,200 | 14,300 | 22,000 |
| SCH87 | BCH87 | 0.500 | 12.700 | 0.750 | 19.050 | 0.438 | 11.112 | 0.020 | 9 | 1,650 | 7,340 | 1,760 | 7,800 | 22,000 |
| SCH88 | BCH88 | 0.500 | 12.700 | 0.750 | 19.050 | 0.500 | 12.700 | 0.022 | 10 | 1,910 | 8,500 | 2,120 | 9,400 | 22,000 |

# Shell Bearings

## CAGE GUIDED NEEDLE ROLLER BEARING SERIES

- Drawn cup
- Combined inch and metric sizes
- Open for through shafts
- Closed for shaft ends




SCE, SCH, HK BCE, BCH, BK

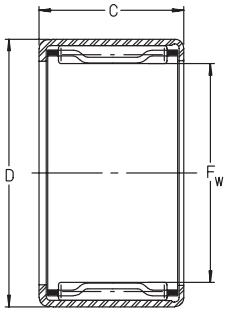
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER OPEN END | PART NUMBER CLOSED END | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCH810 | BCH810 | 0.500 | 12.700 | 0.750 | 19.050 | 0.625 | 15.875 | 0.022 | 10 | 2,360 | 10,500 | 2,800 | 12,400 | 22,000 |
| SCH812 | BCH812 | 0.500 | 12.700 | 0.750 | 19.050 | 0.750 | 19.050 | 0.035 | 16 | 2,850 | 12,600 | 3,500 | 15,700 | 22,000 |
| HK 1312 | BK 1312 | 0.512 | 13 | 0.748 | 19 | 0.472 | 12 | 0.022 | 10 | 1,530 | 6,800 | 1,780 | 7,900 | 18,000 |
| HK 1412 | BK 1412 | 0.551 | 14 | 0.787 | 20 | 0.472 | 12 | 0.023 | 11 | 1,600 | 7,100 | 1,910 | 8,500 | 16,000 |
| SCE95 | | 0.563 | 14.288 | 0.750 | 19.050 | 0.313 | 7.938 | 0.010 | 5 | 910 | 4,000 | 1,060 | 4,700 | 19,600 |
| SCE96 | BCE96 | 0.563 | 14.288 | 0.750 | 19.050 | 0.375 | 9.525 | 0.013 | 6 | 1,160 | 5,200 | 1,440 | 6,400 | 19,600 |
| SCE97 | | 0.563 | 14.288 | 0.750 | 19.050 | 0.438 | 11.130 | 0.019 | 8 | 1,480 | 6,600 | 1,980 | 8,800 | 19,600 |
| SCE98 | BCE98 | 0.563 | 14.288 | 0.750 | 19.050 | 0.500 | 12.700 | 0.020 | 9 | 1,730 | 7,700 | 2,420 | 10,800 | 19,600 |
| SCE910 | BCE910 | 0.563 | 14.288 | 0.750 | 19.050 | 0.625 | 15.875 | 0.022 | 10 | 2,120 | 9,600 | 3,150 | 14,000 | 19,600 |
| SCE912 | BCE912 | 0.563 | 14.288 | 0.750 | 19.050 | 0.750 | 19.050 | 0.026 | 12 | 2,410 | 10,700 | 3,700 | 16,400 | 19,600 |
| SCH98 | BCH98 | 0.563 | 14.288 | 0.813 | 20.638 | 0.500 | 12.700 | 0.026 | 12 | 2,050 | 9,100 | 2,380 | 10,600 | 19,600 |
| SCH910 | BCH910 | 0.563 | 14.288 | 0.813 | 20.638 | 0.625 | 15.875 | 0.028 | 13 | 2,700 | 12,000 | 3,350 | 15,000 | 19,600 |
| SCH912 | BCH912 | 0.563 | 14.288 | 0.813 | 20.638 | 0.750 | 19.050 | 0.037 | 17 | 3,250 | 14,400 | 4,300 | 19,000 | 19,600 |
| HK 1512 | BK 1512 | 0.591 | 15 | 0.827 | 21 | 0.472 | 12 | 0.024 | 11 | 1,780 | 7,900 | 2,110 | 9,400 | 16,000 |
| HK 1516 | BK 1516 | 0.591 | 15 | 0.827 | 21 | 0.630 | 16 | 0.033 | 15 | 2,360 | 10,500 | 3,250 | 14,400 | 16,000 |
| HK 1522 | BK 1522 | 0.591 | 15 | 0.827 | 21 | 0.866 | 22 | 0.044 | 20 | 3,000 | 13,400 | 4,400 | 19,500 | 16,000 |
| SCE105 | BCE105 | 0.625 | 15.875 | 0.813 | 20.638 | 0.313 | 7.938 | 0.012 | 5 | 970 | 4,300 | 1,180 | 5,200 | 17,600 |
| SCE107 | BCE107 | 0.625 | 15.875 | 0.813 | 20.638 | 0.437 | 11.112 | 0.017 | 8 | 1,480 | 6,600 | 2,100 | 9,300 | 17,600 |
| SCE107–1/2 | BCE107–1/2 | 0.625 | 15.875 | 0.813 | 20.638 | 0.469 | 11.910 | 0.018 | 8 | 1,600 | 7,100 | 2,320 | 10,300 | 17,600 |
| SCE108 | BCE108 | 0.625 | 15.875 | 0.813 | 20.638 | 0.500 | 12.700 | 0.020 | 9 | 1,830 | 8,100 | 2,700 | 12,000 | 17,600 |
| SCE1010 | BCE1010 | 0.625 | 15.875 | 0.813 | 20.638 | 0.625 | 15.875 | 0.025 | 11 | 2,330 | 10,400 | 3,650 | 16,300 | 17,600 |
| SCE1012 | BCE1012 | 0.625 | 15.875 | 0.813 | 20.638 | 0.750 | 19.050 | 0.031 | 14 | 2,700 | 12,100 | 4,450 | 19,700 | 17,600 |
| SCH108 | BCH108 | 0.625 | 15.875 | 0.875 | 22.225 | 0.500 | 12.700 | 0.028 | 13 | 2,250 | 10,000 | 2,750 | 12,200 | 17,600 |
| SCH1010 | BCH1010 | 0.625 | 15.875 | 0.875 | 22.225 | 0.625 | 15.875 | 0.035 | 16 | 2,850 | 12,700 | 3,750 | 16,700 | 17,600 |
| SCH1012 | BCH1012 | 0.625 | 15.875 | 0.875 | 22.225 | 0.750 | 19.050 | 0.042 | 19 | 3,300 | 14,700 | 4,500 | 20,000 | 17,600 |
| SCH1016 | BCH1016 | 0.625 | 15.875 | 0.875 | 22.225 | 1.000 | 25.400 | 0.055 | 25 | 4,300 | 19,100 | 6,300 | 28,000 | 17,600 |
| HK 1612 | BK 1612 | 0.630 | 16 | 0.866 | 22 | 0.472 | 12 | 0.026 | 12 | 1,710 | 7,600 | 2,180 | 9,700 | 15,000 |
| HK 1616 | BK 1616 | 0.630 | 16 | 0.866 | 22 | 0.630 | 16 | 0.035 | 16 | 2,450 | 10,900 | 3,450 | 15,300 | 15,000 |
| HK 1622 | BK 1622 | 0.630 | 16 | 0.866 | 22 | 0.866 | 22 | 0.049 | 22 | 2,950 | 13,100 | 4,350 | 19,400 | 15,000 |
| HK 1712 | BK 1712 | 0.669 | 17 | 0.906 | 23 | 0.472 | 12 | 0.026 | 12 | 1,780 | 7,900 | 2,320 | 10,300 | 14,000 |
| SCE116 | | 0.687 | 17.462 | 0.875 | 22.225 | 0.375 | 9.525 | 0.014 | 6 | 1,290 | 5,700 | 1,770 | 7,900 | 16,000 |
| SCE118 | BCE118 | 0.687 | 17.462 | 0.875 | 22.225 | 0.500 | 12.700 | 0.021 | 10 | 1,930 | 8,600 | 2,950 | 13,200 | 16,000 |
| SCE1110 | BCE1110 | 0.687 | 17.462 | 0.875 | 22.225 | 0.625 | 15.875 | 0.028 | 13 | 2,460 | 10,900 | 4,050 | 18,000 | 16,000 |
| SCE1112 | BCE1112 | 0.687 | 17.462 | 0.875 | 22.225 | 0.750 | 19.050 | 0.035 | 16 | 2,800 | 12,400 | 4,750 | 21,000 | 16,000 |
| SCH117 | BCH117 | 0.688 | 17.462 | 0.938 | 23.812 | 0.437 | 11.112 | 0.029 | 13 | 1,900 | 8,400 | 2,260 | 10,000 | 16,000 |
| SCH1110 | BCH1110 | 0.688 | 17.462 | 0.938 | 23.812 | 0.625 | 15.875 | 0.037 | 17 | 2,900 | 12,900 | 3,850 | 17,100 | 16,000 |
| SCH1112 | BCH1112 | 0.688 | 17.462 | 0.938 | 23.812 | 0.750 | 19.050 | 0.045 | 20 | 3,550 | 15,900 | 5,100 | 22,700 | 16,000 |
| HK 1812 | BK 1812 | 0.709 | 18 | 0.945 | 24 | 0.472 | 12 | 0.029 | 13 | 1,820 | 8,100 | 2,450 | 10,900 | 13,000 |
| HK 1816 | BK 1816 | 0.709 | 18 | 0.945 | 24 | 0.63 | 16 | 0.04 | 18 | 2,600 | 11,600 | 3,900 | 17,300 | 13,000 |
| SCE126 | BCE126 | 0.750 | 19.050 | 1.000 | 25.400 | 0.375 | 9.525 | 0.022 | 10 | 1,600 | 7,100 | 1,860 | 8,300 | 14,700 |
| SCE128 | BCE128 | 0.750 | 19.050 | 1.000 | 25.400 | 0.500 | 12.700 | 0.031 | 14 | 2,210 | 9,800 | 2,800 | 12,500 | 14,700 |
| SCE1210 | BCE1210 | 0.750 | 19.050 | 1.000 | 25.400 | 0.625 | 15.875 | 0.040 | 18 | 2,850 | 12,800 | 3,950 | 17,500 | 14,700 |
| SCE1212 | BCE1212 | 0.750 | 19.050 | 1.000 | 25.400 | 0.750 | 19.050 | 0.046 | 21 | 3,450 | 15,300 | 5,000 | 22,100 | 14,700 |
| SCH1212 | BCH1212 | 0.750 | 19.050 | 1.063 | 26.988 | 0.750 | 19.050 | 0.060 | 27 | 4,150 | 18,500 | 5,300 | 23,600 | 14,700 |
| HK 2010 | | 0.787 | 20 | 1.024 | 26 | 0.394 | 10 | 0.026 | 12 | 1,440 | 6,400 | 1,840 | 8,200 | 12,000 |
| HK 2012 | BK 2012 | 0.787 | 20 | 1.024 | 26 | 0.472 | 12 | 0.031 | 14 | 1,930 | 8,600 | 2,700 | 12,100 | 12,000 |

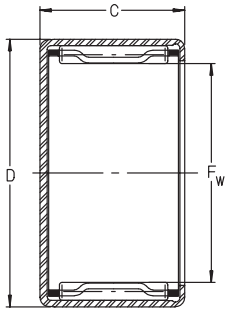
# Shell Bearings

## CAGE GUIDED NEEDLE ROLLER BEARING SERIES

- Drawn cup
- Combined inch and metric sizes
- Open for through shafts
- Closed for shaft ends




SCE, SCH, HK




BCE, BCH, BK

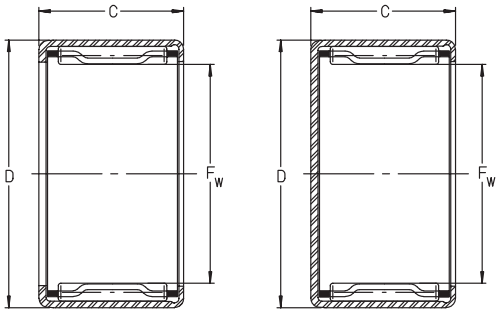
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For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER OPEN END | PART NUMBER CLOSED END | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HK 2016 | BK 2016 | 0.787 | 20 | 1.024 | 26 | 0.630 | 16 | 0.042 | 19 | 2,850 | 12,700 | 4,500 | 20,100 | 12,000 |
| HK 2020 | BK 2020 | 0.787 | 20 | 1.024 | 26 | 0.787 | 20 | 0.053 | 24 | 3,550 | 15,700 | 5,800 | 26,000 | 12,000 |
| HK 2030 | BK 2030 | 0.787 | 20 | 1.024 | 26 | 1.181 | 30 | 0.077 | 35 | 4,900 | 21,800 | 9,000 | 40,000 | 12,000 |
| SCE136 | | 0.813 | 20.638 | 1.063 | 26.988 | 0.375 | 9.525 | 0.031 | 14 | 1,590 | 7,100 | 1,880 | 8,400 | 13,600 |
| SCE138 | BCE138 | 0.813 | 20.638 | 1.063 | 26.988 | 0.500 | 12.700 | 0.035 | 16 | 2,420 | 10,800 | 3,200 | 14,300 | 13,600 |
| SCE1312 | BCE1312 | 0.813 | 20.638 | 1.063 | 26.988 | 0.750 | 19.050 | 0.053 | 24 | 3,600 | 15,900 | 5,300 | 23,700 | 13,600 |
| SCE1314 | | 0.813 | 20.638 | 1.063 | 26.988 | 0.875 | 22.225 | 0.060 | 27 | 4,150 | 18,500 | 6,500 | 29,000 | 13,600 |
| SCH1310 | BCH1310 | 0.813 | 20.638 | 1.125 | 28.575 | 0.625 | 15.875 | 0.055 | 25 | 3,550 | 15,900 | 4,650 | 20,700 | 13,600 |
| SCH1312 | BCH1312 | 0.813 | 20.638 | 1.125 | 28.575 | 0.750 | 19.050 | 0.066 | 30 | 4,350 | 19,200 | 6,000 | 26,500 | 13,600 |
| HK 22x28x7.5 TN | | 0.866 | 22 | 1.102 | 28 | 0.295 | 7.5 | 0.02 | 9 | 1,300 | 5,800 | 1,710 | 7,600 | 11,000 |
| HK 2210 | | 0.866 | 22 | 1.102 | 28 | 0.394 | 10 | 0.029 | 13 | 1,690 | 7,500 | 2,360 | 10,500 | 11,000 |
| HK 2212 | BK 2212 | 0.866 | 22 | 1.102 | 28 | 0.472 | 12 | 0.033 | 15 | 2,050 | 9,100 | 3,000 | 13,400 | 11,000 |
| HK 2216 | BK 2216 | 0.866 | 22 | 1.102 | 28 | 0.630 | 16 | 0.046 | 21 | 3,000 | 13,400 | 4,950 | 22,100 | 11,000 |
| HK 2220 | BK 2220 | 0.866 | 22 | 1.102 | 28 | 0.787 | 20 | 0.057 | 26 | 3,700 | 16,500 | 6,500 | 29,000 | 11,000 |
| SCE146 | BCE146 | 0.875 | 22.225 | 1.125 | 28.575 | 0.375 | 9.525 | 0.029 | 13 | 1,850 | 8,200 | 2,400 | 10,700 | 12,600 |
| SCE148 | BCE148 | 0.875 | 22.225 | 1.125 | 28.575 | 0.500 | 12.700 | 0.042 | 19 | 2,500 | 11,200 | 3,550 | 15,800 | 12,600 |
| SCE1412 | BCE1412 | 0.875 | 22.225 | 1.125 | 28.575 | 0.750 | 19.050 | 0.061 | 28 | 3,800 | 16,900 | 6,100 | 27,000 | 12,600 |
| SCE1416 | BCE1416 | 0.875 | 22.225 | 1.125 | 28.575 | 1.000 | 25.400 | 0.075 | 34 | 4,950 | 22,100 | 8,500 | 38,000 | 12,600 |
| SCH1412 | BCH1412 | 0.875 | 22.225 | 1.188 | 30.162 | 0.750 | 19.050 | 0.070 | 32 | 4,400 | 19,500 | 6,100 | 27,000 | 12,600 |
| SCH1416 | BCH1416 | 0.875 | 22.225 | 1.188 | 30.162 | 1.000 | 25.400 | 0.094 | 43 | 5,800 | 25,500 | 8,600 | 38,500 | 12,600 |
| SCE1516 | BCE1516 | 0.937 | 23.812 | 1.187 | 30.162 | 1.000 | 25.400 | 0.084 | 38 | 5,400 | 24,100 | 9,700 | 43,000 | 11,800 |
| HK 24x30x7.5 TN | | 0.945 | 24 | 1.181 | 30 | 0.295 | 7.5 | 0.022 | 10 | 1,370 | 6,100 | 1,840 | 8,200 | 10,000 |
| HK 2512 | BK 2512 | 0.984 | 25 | 1.260 | 32 | 0.472 | 12 | 0.044 | 20 | 2,470 | 11,000 | 3,400 | 15,200 | 10,000 |
| HK 2516 | BK 2516 | 0.984 | 25 | 1.260 | 32 | 0.630 | 16 | 0.06 | 27 | 3,500 | 15,600 | 5,400 | 24,000 | 10,000 |
| HK 2520 | BK 2520 | 0.984 | 25 | 1.260 | 32 | 0.787 | 20 | 0.073 | 33 | 4,450 | 19,900 | 7,400 | 33,000 | 10,000 |
| HK 2526 | BK 2526 | 0.984 | 25 | 1.260 | 32 | 1.024 | 26 | 0.097 | 44 | 5,700 | 25,500 | 10,100 | 45,000 | 10,000 |
| HK 2538 | BK 2538 | 0.984 | 25 | 1.260 | 32 | 1.496 | 38 | 0.141 | 64 | 7,600 | 34,000 | 14,800 | 66,000 | 10,000 |
| SCE166 | BCE166 | 1.000 | 25.400 | 1.250 | 31.750 | 0.375 | 9.525 | 0.040 | 18 | 1,750 | 7,800 | 2,300 | 10,200 | 11,000 |
| SCE168 | BCE168 | 1.000 | 25.400 | 1.250 | 31.750 | 0.500 | 12.700 | 0.042 | 19 | 2,850 | 12,600 | 4,300 | 19,100 | 11,000 |
| SCE1612 | BCE1612 | 1.000 | 25.400 | 1.250 | 31.750 | 0.750 | 19.050 | 0.060 | 27 | 4,150 | 18,500 | 7,000 | 31,500 | 11,000 |
| SCE1616 | BCE1616 | 1.000 | 25.400 | 1.250 | 31.750 | 1.000 | 25.400 | 0.084 | 38 | 5,600 | 24,800 | 10,200 | 45,500 | 11,000 |
| SCH1610 | BCH1610 | 1.000 | 25.400 | 1.313 | 33.338 | 0.625 | 15.875 | 0.077 | 35 | 3,750 | 16,700 | 5,100 | 22,700 | 11,000 |
| SCH1612 | BCH1612 | 1.000 | 25.400 | 1.313 | 33.338 | 0.750 | 19.050 | 0.080 | 36 | 4,500 | 20,000 | 6,400 | 28,500 | 11,000 |
| SCH1616 | BCH1616 | 1.000 | 25.400 | 1.313 | 33.338 | 1.000 | 25.400 | 0.105 | 47 | 6,500 | 28,900 | 10,400 | 46,300 | 11,000 |
| HK 2816 | BK 2816 | 1.102 | 28 | 1.378 | 35 | 0.630 | 16 | 0.064 | 29 | 3,700 | 16,400 | 6,000 | 26,500 | 9,000 |
| HK 2820 | BK 2820 | 1.102 | 28 | 1.378 | 35 | 0.787 | 20 | 0.079 | 36 | 4,700 | 20,900 | 8,100 | 36,000 | 9,000 |
| SCE186 | BCE186 | 1.125 | 28.575 | 1.375 | 34.925 | 0.375 | 9.525 | 0.042 | 19 | 1,870 | 8,300 | 2,600 | 11,500 | 9,800 |
| SCE188 | BCE188 | 1.125 | 28.575 | 1.375 | 34.925 | 0.500 | 12.700 | 0.045 | 21 | 2,900 | 12,800 | 4,550 | 20,200 | 9,800 |
| SCE1812 | BCE1812 | 1.125 | 28.575 | 1.375 | 34.925 | 0.750 | 19.050 | 0.066 | 30 | 4,250 | 18,900 | 7,700 | 34,000 | 9,800 |
| SCE1816 | BCE1816 | 1.125 | 28.575 | 1.375 | 34.925 | 1.000 | 25.400 | 0.088 | 40 | 5,800 | 26,000 | 11,100 | 49,500 | 9,800 |
| SCH1810 | BCH1810 | 1.125 | 28.575 | 1.500 | 38.100 | 0.625 | 15.875 | 0.094 | 43 | 4,900 | 21,800 | 6,500 | 29,000 | 9,800 |
| SCH1812 | BCH1812 | 1.125 | 28.575 | 1.500 | 38.100 | 0.750 | 19.050 | 0.105 | 48 | 5,700 | 25,000 | 7,800 | 35,000 | 9,800 |
| SCH1816 | BCH1816 | 1.125 | 28.575 | 1.500 | 38.100 | 1.000 | 25.400 | 0.138 | 63 | 7,100 | 31,500 | 10,600 | 46,500 | 9,800 |
| SCH1818 | BCH1818 | 1.125 | 28.575 | 1.500 | 38.100 | 1.125 | 28.580 | 0.186 | 85 | 9,100 | 40,500 | 14,500 | 65,000 | 9,800 |
| SCH1820 | BCH1820 | 1.125 | 28.575 | 1.500 | 38.100 | 1.250 | 31.750 | 0.121 | 55 | 9,200 | 40,900 | 14,600 | 64,500 | 9,800 |
| HK 3012 | BK 3012 | 1.181 | 30 | 1.457 | 37 | 0.472 | 12 | 0.051 | 23 | 2,700 | 12,100 | 4,100 | 18,200 | 8,500 |

# Shell Bearings

## CAGE GUIDED NEEDLE ROLLER BEARING SERIES

- Drawn cup
- Combined inch and metric sizes
- Open for through shafts
- Closed for shaft ends




SCE, SCH, HK BCE, BCH, BK

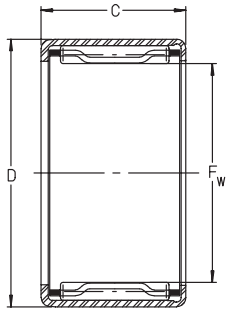
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER OPEN END | PART NUMBER CLOSED END | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HK 3016 | BK 3016 | 1.181 | 30 | 1.457 | 37 | 0.630 | 16 | 0.068 | 31 | 3,850 | 17,200 | 6,500 | 29,000 | 8,500 |
| HK 3020 | BK 3020 | 1.181 | 30 | 1.457 | 37 | 0.787 | 20 | 0.086 | 39 | 4,950 | 22,000 | 8,900 | 39,500 | 8,500 |
| HK 3026 | BK 3026 | 1.181 | 30 | 1.457 | 37 | 1.024 | 26 | 0.112 | 51 | 6,300 | 28,000 | 12,100 | 54,000 | 8,500 |
| HK 3038 | BK 3038 | 1.181 | 30 | 1.457 | 37 | 1.496 | 38 | 0.168 | 76 | 8,400 | 37,500 | 17,800 | 79,000 | 8,500 |
| SCE1916 | | 1.187 | 30.162 | 1.500 | 38.100 | 1.000 | 25.400 | 0.095 | 43 | 7,400 | 33,000 | 12,900 | 57,000 | 9,300 |
| SCE208 | BCE208 | 1.250 | 31.750 | 1.500 | 38.100 | 0.500 | 12.700 | 0.049 | 22 | 3,000 | 13,500 | 4,950 | 22,200 | 8,800 |
| SCE2010 | BCE2010 | 1.250 | 31.750 | 1.500 | 38.100 | 0.625 | 15.875 | 0.066 | 30 | 3,700 | 16,500 | 6,500 | 29,000 | 8,800 |
| SCE2012 | BCE2012 | 1.250 | 31.750 | 1.500 | 38.100 | 0.750 | 19.050 | 0.082 | 37 | 4,750 | 21,100 | 8,900 | 39,500 | 8,800 |
| SCE2016 | BCE2016 | 1.250 | 31.750 | 1.500 | 38.100 | 1.000 | 25.400 | 0.099 | 45 | 6,100 | 27,000 | 12,300 | 55,000 | 8,800 |
| SCE2020 | BCE2020 | 1.250 | 31.750 | 1.500 | 38.100 | 1.250 | 31.750 | 0.123 | 56 | 7,500 | 33,500 | 16,100 | 71,000 | 8,800 |
| SCH208 | BCH208 | 1.250 | 31.750 | 1.625 | 41.275 | 0.500 | 12.700 | 0.079 | 36 | 3,700 | 16,400 | 4,700 | 21,000 | 8,800 |
| SCH2012 | BCH2012 | 1.250 | 31.750 | 1.625 | 41.275 | 0.750 | 19.050 | 0.137 | 62 | 6,100 | 27,100 | 8,900 | 39,500 | 8,800 |
| SCH2016 | BCH2016 | 1.250 | 31.750 | 1.625 | 41.275 | 1.000 | 25.400 | 0.157 | 71 | 8,100 | 36,000 | 12,900 | 57,500 | 8,800 |
| SCH2020 | BCH2020 | 1.250 | 31.750 | 1.625 | 41.275 | 1.250 | 31.750 | 0.174 | 79 | 9,800 | 43,600 | 16,400 | 72,900 | 8,800 |
| HK 32x39x24 | | 1.260 | 32 | 1.535 | 39 | 0.945 | 24 | 0.11 | 50 | 6,200 | 27,500 | 12,100 | 54,000 | 8,000 |
| SCE2110 | | 1.313 | 33.338 | 1.625 | 41.275 | 0.625 | 15.875 | 0.082 | 37 | 4,750 | 21,100 | 7,600 | 34,000 | 8,400 |
| SCE228 | BCE228 | 1.375 | 34.925 | 1.625 | 41.275 | 0.500 | 12.700 | 0.055 | 25 | 3,050 | 13,600 | 5,300 | 23,700 | 8,000 |
| SCE2212 | BCE2212 | 1.375 | 34.925 | 1.625 | 41.275 | 0.750 | 19.050 | 0.086 | 39 | 4,800 | 21,500 | 9,600 | 42,500 | 8,000 |
| SCE2216 | | 1.375 | 34.925 | 1.625 | 41.275 | 1.000 | 25.400 | 0.128 | 58 | 6,200 | 27,500 | 13,300 | 59,000 | 8,000 |
| SCE2220 | BCE2220 | 1.375 | 34.925 | 1.625 | 41.275 | 1.250 | 31.750 | 0.179 | 81 | 7,600 | 34,000 | 17,300 | 77,000 | 8,000 |
| SCH2212 | BCH2212 | 1.375 | 34.925 | 1.750 | 44.450 | 0.750 | 19.050 | 0.127 | 57 | 6,600 | 29,500 | 10,100 | 45,000 | 8,000 |
| SCH2216 | BCH2216 | 1.375 | 34.925 | 1.750 | 44.450 | 1.000 | 25.400 | 0.170 | 77 | 8,800 | 39,000 | 14,700 | 65,000 | 8,000 |
| HK 3512 | BK 3512 | 1.378 | 35 | 1.654 | 42 | 0.472 | 12 | 0.06 | 27 | 2,950 | 13,100 | 4,800 | 21,300 | 7,500 |
| HK 3516 | BK 3516 | 1.378 | 35 | 1.654 | 42 | 0.630 | 16 | 0.079 | 36 | 4,200 | 18,700 | 7,500 | 33,500 | 7,500 |
| HK 3520 | BK 3520 | 1.378 | 35 | 1.654 | 42 | 0.787 | 20 | 0.097 | 44 | 5,400 | 23,800 | 10,300 | 46,000 | 7,500 |
| SCE248 | BCE248 | 1.500 | 38.100 | 1.875 | 47.625 | 0.500 | 12.700 | 0.106 | 48 | 4,200 | 18,600 | 5,800 | 26,000 | 7,400 |
| SCE2410 | BCE2410 | 1.500 | 38.100 | 1.875 | 47.625 | 0.625 | 15.875 | 0.119 | 54 | 5,500 | 24,400 | 8,300 | 36,500 | 7,400 |
| SCE2412 | BCE2412 | 1.500 | 38.100 | 1.875 | 47.625 | 0.750 | 19.050 | 0.137 | 62 | 6,800 | 30,500 | 10,900 | 48,500 | 7,400 |
| SCE2414 | BCE2414 | 1.500 | 38.100 | 1.875 | 47.625 | 0.875 | 22.225 | 0.159 | 72 | 8,100 | 36,000 | 13,500 | 60,000 | 7,400 |
| SCE2416 | BCE2416 | 1.500 | 38.100 | 1.875 | 47.625 | 1.000 | 25.400 | 0.183 | 83 | 8,700 | 38,500 | 14,900 | 66,000 | 7,400 |
| SCE2420 | BCE2420 | 1.500 | 38.100 | 1.875 | 47.625 | 1.250 | 31.750 | 0.232 | 105 | 10,600 | 47,500 | 19,200 | 86,000 | 7,400 |
| HK 4012 | BK 4012 | 1.575 | 40 | 1.850 | 47 | 0.472 | 12 | 0.066 | 30 | 3,150 | 14,000 | 5,500 | 24,300 | 6,500 |
| HK 4016 | BK 4016 | 1.575 | 40 | 1.850 | 47 | 0.630 | 16 | 0.086 | 39 | 4,500 | 20,000 | 8,700 | 38,500 | 6,500 |
| HK 4020 | BK 4020 | 1.575 | 40 | 1.850 | 47 | 0.787 | 20 | 0.119 | 54 | 5,700 | 25,500 | 11,700 | 52,000 | 6,500 |
| SCE2610 | BCE2610 | 1.625 | 41.275 | 2.000 | 50.800 | 0.625 | 15.875 | 0.121 | 55 | 5,700 | 25,500 | 8,900 | 40,000 | 6,800 |
| SCE2620 | BCE2620 | 1.625 | 41.275 | 2.000 | 50.800 | 1.250 | 31.750 | 0.243 | 110 | 11,400 | 51,000 | 21,900 | 97,000 | 6,800 |
| SCE2812 | BCE2812 | 1.750 | 44.450 | 2.125 | 53.975 | 0.750 | 19.050 | 0.181 | 82 | 7,100 | 31,500 | 12,300 | 55,000 | 6,300 |
| SCE2816 | BCE2816 | 1.750 | 44.450 | 2.125 | 53.975 | 1.000 | 25.400 | 0.254 | 115 | 9,300 | 41,500 | 17,000 | 76,000 | 6,300 |
| SCE2820 | | 1.750 | 44.450 | 2.125 | 53.975 | 1.250 | 31.750 | 0.295 | 134 | 12,400 | 55,000 | 24,300 | 108,000 | 6,300 |
| SCE2824 | BCE2824 | 1.750 | 44.450 | 2.125 | 53.975 | 1.500 | 38.100 | 0.359 | 163 | 14,000 | 62,000 | 29,000 | 130,000 | 6,300 |
| HK 4512 | | 1.772 | 45 | 2.047 | 52 | 0.472 | 12 | 0.073 | 33 | 3,350 | 14,900 | 6,200 | 27,500 | 6,000 |
| HK 4516 | BK 4516 | 1.772 | 45 | 2.047 | 52 | 0.630 | 16 | 0.101 | 46 | 4,800 | 21,300 | 9,700 | 43,000 | 6,000 |
| HK 4520 | BK 4520 | 1.772 | 45 | 2.047 | 52 | 0.787 | 20 | 0.123 | 56 | 6,100 | 27,000 | 13,300 | 59,000 | 6,000 |
| HK 50x57x16 | | 1.969 | 50 | 2.244 | 57 | 0.630 | 16 | 0.11 | 50 | 4,100 | 18,200 | 8,200 | 36,500 | 5,000 |
| HK 5020 | BK 5020 | 1.969 | 50 | 2.283 | 58 | 0.787 | 20 | 0.154 | 70 | 7,000 | 31,000 | 14,200 | 63,000 | 5,000 |
| HK 5025 | BK 5025 | 1.969 | 50 | 2.283 | 58 | 0.984 | 25 | 0.198 | 90 | 8,700 | 38,500 | 18,900 | 84,000 | 5,000 |

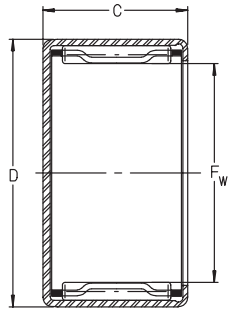
# Shell Bearings

## CAGE GUIDED NEEDLE ROLLER BEARING SERIES

- Drawn cup
- Combined inch and metric sizes
- Open for through shafts
- Closed for shaft ends




SCE, SCH, HK



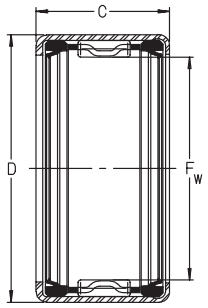

BCE, BCH, BK

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

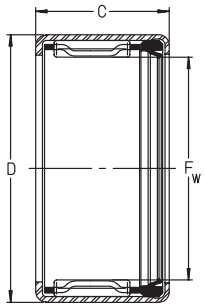
| PART NUMBER OPEN END | PART NUMBER CLOSED END | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCE328 | | 2.000 | 50.800 | 2.375 | 60.325 | 0.500 | 12.700 | 0.128 | 58 | 4,900 | 21,800 | 7,900 | 35,000 | 5,500 |
| SCE3210 | | 2.000 | 50.800 | 2.375 | 60.325 | 0.625 | 15.875 | 0.150 | 68 | 6,400 | 28,500 | 11,200 | 49,500 | 5,500 |
| SCE3216 | BCE3216 | 2.000 | 50.800 | 2.375 | 60.325 | 1.000 | 25.400 | 0.225 | 102 | 9,300 | 41,500 | 17,900 | 80,000 | 5,500 |
| SCE3220 | | 2.000 | 50.800 | 2.375 | 60.325 | 1.250 | 31.750 | 0.304 | 138 | 12,400 | 55,000 | 26,000 | 116,000 | 5,500 |
| SCE348 | | 2.125 | 53.975 | 2.500 | 63.500 | 0.500 | 12.700 | 0.137 | 62 | 5,200 | 5,200 | 8,700 | 39,000 | 5,200 |
| SCE3410 | BCE3410 | 2.125 | 53.975 | 2.500 | 63.500 | 0.625 | 15.875 | 0.159 | 72 | 7,000 | 31,000 | 12,700 | 57,000 | 5,200 |
| SCE3416 | | 2.125 | 53.975 | 2.500 | 63.500 | 1.000 | 25.400 | 0.256 | 116 | 11,200 | 50,000 | 23,200 | 103,000 | 5,200 |
| HK 5520 | BK 5520 | 2.165 | 55 | 2.480 | 63 | 0.787 | 20 | 0.163 | 74 | 7,100 | 31,500 | 15,100 | 67,000 | 4,700 |
| HK 5528 | BK 5528 | 2.165 | 55 | 2.480 | 63 | 1.102 | 28 | 0.232 | 105 | 9,900 | 44,000 | 23,200 | 103,000 | 4,700 |
| SCE3612 | BCE3612 | 2.250 | 57.150 | 2.625 | 66.675 | 0.750 | 19.050 | 0.196 | 89 | 8,400 | 37,500 | 16,200 | 72,000 | 4,900 |
| SCE3616 | BCE3616 | 2.250 | 57.150 | 2.625 | 66.675 | 1.000 | 25.400 | 0.265 | 120 | 11,300 | 50,000 | 24,000 | 107,000 | 4,900 |
| HK 6012 | BK 6012 | 2.362 | 60 | 2.677 | 68 | 0.472 | 12 | 0.108 | 49 | 3,900 | 17,400 | 7,200 | 32,000 | 4,400 |
| HK 6020 | BK 6020 | 2.362 | 60 | 2.677 | 68 | 0.787 | 20 | 0.179 | 81 | 7,500 | 33,500 | 16,900 | 75,000 | 4,400 |
| HK 6032 | BK 6032 | 2.362 | 60 | 2.677 | 68 | 1.260 | 32 | 0.3 | 136 | 11,900 | 53,000 | 30,500 | 135,000 | 4,400 |
| SCE4412 | BCE4412 | 2.750 | 69.850 | 3.125 | 79.375 | 0.750 | 19.050 | 0.291 | 132 | 8,800 | 38,500 | 18,300 | 80,000 | 4,000 |
| SCE5612 | | 3.500 | 88.900 | 4.000 | 101.600 | 0.750 | 19.050 | 0.410 | 186 | 11,900 | 53,000 | 23,200 | 103,000 | 3,150 |

# Shell Bearings
## SEALED SERIES

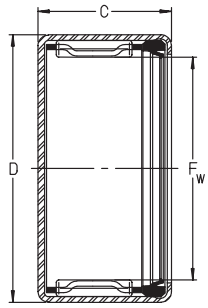
- Drawn cup caged needle bearings
- Open and closed, single or double sealed



SCE..PP, SCH..PP, HK..2RS



SCE..P, SCH..P, HK..RS



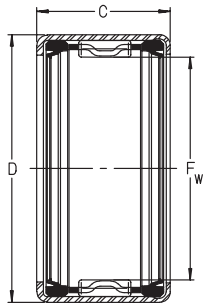
BCE..P, BCH..P, BK..RS

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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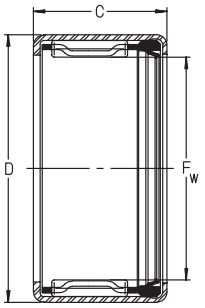
| PART NUMBER 2 SEALS | PART NUMBER 1 SEAL | PART NUMBER 1 SEAL CLOSED END | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SCE45P | | 0.250 | 6.350 | 0.438 | 11.112 | 0.313 | 7.938 | 0.007 | 3 | 360 | 1,600 | 260 | 1,200 | 27,000 |
| SCE46PP | | | 0.250 | 6.350 | 0.438 | 11.112 | 0.375 | 9.525 | 0.010 | 5 | 360 | 1,600 | 260 | 1,200 | 27,000 |
| | SCE46P | | 0.250 | 6.350 | 0.438 | 11.112 | 0.375 | 9.525 | 0.010 | 5 | 570 | 2,500 | 470 | 2,090 | 27,000 |
| SCE47PP | | | 0.250 | 6.350 | 0.438 | 11.112 | 0.438 | 11.112 | 0.009 | 4 | 570 | 2,500 | 470 | 2,090 | 27,000 |
| | SCE48P | BCE48P | 0.250 | 6.350 | 0.438 | 11.112 | 0.500 | 12.700 | 0.009 | 4 | 920 | 4,000 | 870 | 3,850 | 27,000 |
| SCE49PP | | | 0.250 | 6.350 | 0.438 | 11.112 | 0.563 | 14.288 | 0.011 | 5 | 920 | 4,000 | 870 | 3,850 | 27,000 |
| | SCE56P | | 0.313 | 7.938 | 0.500 | 12.700 | 0.375 | 9.525 | 0.009 | 4 | 650 | 2,900 | 590 | 2,600 | 23,000 |
| SCE57PP | | | 0.313 | 7.938 | 0.500 | 12.700 | 0.438 | 11.112 | 0.008 | 4 | 650 | 2,900 | 590 | 2,600 | 23,000 |
| | SCE58P | BCE58P | 0.313 | 7.938 | 0.500 | 12.700 | 0.500 | 12.700 | 0.013 | 6 | 1,060 | 4,700 | 1,090 | 4,850 | 23,000 |
| SCE59PPR | | | 0.313 | 7.938 | 0.500 | 12.700 | 0.563 | 14.288 | 0.011 | 5 | 1,060 | 4,700 | 1,090 | 4,850 | 23,000 |
| | SCH58P | BCH58P | 0.313 | 7.938 | 0.563 | 14.288 | 0.500 | 12.700 | 0.009 | 4 | 1,170 | 5,200 | 1,080 | 4,800 | 21,000 |
| | HK 0810 RS | | 0.315 | 8 | 0.472 | 12 | 0.394 | 10 | 0.007 | 3 | 620 | 2,750 | 590 | 2,600 | 20,000 |
| HK 0812.2RS | | | 0.315 | 8 | 0.472 | 12 | 0.472 | 12 | 0.007 | 3 | 620 | 2,750 | 590 | 2,600 | 20,000 |
| | SCE66P | BCE66P | 0.375 | 9.525 | 0.563 | 14.288 | 0.375 | 9.525 | 0.011 | 5 | 650 | 2,900 | 610 | 2,700 | 20,000 |
| SCE67PP | | | 0.375 | 9.525 | 0.563 | 14.288 | 0.438 | 11.112 | 0.026 | 12 | 650 | 2,900 | 610 | 2,700 | 20,000 |
| SCE68PP | | | 0.375 | 9.525 | 0.563 | 14.288 | 0.500 | 12.700 | 0.013 | 6 | 870 | 3,900 | 890 | 3,950 | 20,000 |
| | SCE69P | BCE69P | 0.375 | 9.525 | 0.563 | 14.288 | 0.563 | 14.288 | 0.015 | 7 | 1,300 | 5,800 | 1,490 | 6,600 | 20,000 |
| SCE610PP | | | 0.375 | 9.525 | 0.563 | 14.288 | 0.625 | 15.875 | 0.015 | 7 | 1,300 | 5,800 | 1,490 | 6,600 | 20,000 |
| | HK 1012 RS | | 0.394 | 10 | 0.551 | 14 | 0.472 | 12 | 0.009 | 4 | 990 | 4,400 | 1,150 | 5,100 | 17,000 |
| HK 1014.2RS | | | 0.394 | 10 | 0.551 | 14 | 0.551 | 14 | 0.010 | 5 | 990 | 4,400 | 1,150 | 5,100 | 17,000 |
| | SCH79P | BCH79P | 0.438 | 11.112 | 0.688 | 17.462 | 0.563 | 14.288 | 0.020 | 9 | 1,780 | 7,900 | 1,840 | 8,200 | 15,000 |
| SCH710PP | | | 0.438 | 11.112 | 0.688 | 17.462 | 0.625 | 15.875 | 0.024 | 11 | 1,780 | 7,900 | 1,840 | 8,200 | 15,000 |
| | HK 1214 RS | | 0.472 | 12 | 0.709 | 18 | 0.551 | 14 | 0.022 | 10 | 1,460 | 6,500 | 1,640 | 7,300 | 14,000 |
| HK 1216.2RS | | | 0.472 | 12 | 0.709 | 18 | 0.630 | 16 | 0.024 | 11 | 1,460 | 6,500 | 1,640 | 7,300 | 14,000 |
| | SCE86P | | 0.500 | 12.700 | 0.688 | 17.462 | 0.375 | 9.525 | 0.020 | 9 | 820 | 3,650 | 890 | 3,950 | 15,000 |
| SCE87PP | | | 0.500 | 12.700 | 0.688 | 17.462 | 0.438 | 11.112 | 0.013 | 6 | 820 | 3,650 | 890 | 3,950 | 15,000 |
| | SCE89P | BCE89P | 0.500 | 12.700 | 0.688 | 17.462 | 0.563 | 14.288 | 0.022 | 10 | 1,550 | 6,900 | 2,030 | 9,000 | 15,000 |
| SCE810PP | | | 0.500 | 12.700 | 0.688 | 17.462 | 0.625 | 15.875 | 0.022 | 10 | 1,550 | 6,900 | 2,030 | 9,000 | 15,000 |
| SCE812PP | | | 0.500 | 12.700 | 0.688 | 17.462 | 0.750 | 19.050 | 0.030 | 14 | 1,980 | 8,800 | 2,750 | 12,300 | 15,000 |
| | SCH813PR | BCH813P | 0.500 | 12.700 | 0.750 | 19.050 | 0.813 | 20.638 | 0.037 | 17 | 2,850 | 12,600 | 3,550 | 15,700 | 14,000 |
| SCH814PPR | | | 0.500 | 12.700 | 0.750 | 19.050 | 0.875 | 22.225 | 0.026 | 12 | 2,850 | 12,600 | 3,550 | 15,700 | 14,000 |
| | HK 1414 RS | BK 1414 RS | 0.551 | 14 | 0.787 | 20 | 0.551 | 14 | 0.026 | 12 | 1,600 | 7,100 | 1,910 | 8,500 | 12,000 |
| HK 1416.2RS | | | 0.551 | 14 | 0.787 | 20 | 0.630 | 16 | 0.029 | 13 | 1,600 | 7,100 | 1,910 | 8,500 | 12,000 |
| | SCE99P | | 0.563 | 14.288 | 0.750 | 19.050 | 0.563 | 14.288 | 0.026 | 12 | 1,730 | 7,700 | 2,420 | 10,800 | 14,000 |
| SCE910PP | | | 0.563 | 14.288 | 0.750 | 19.050 | 0.625 | 15.875 | 0.029 | 13 | 1,730 | 7,700 | 2,420 | 10,800 | 14,000 |
| SCE912PP | | | 0.563 | 14.288 | 0.750 | 19.050 | 0.750 | 19.050 | 0.027 | 12 | 2,120 | 9,600 | 3,150 | 14,000 | 14,000 |
| | SCH910PR | BCH910PR | 0.563 | 14.288 | 0.813 | 20.638 | 0.625 | 15.875 | 0.022 | 10 | 2,450 | 10,900 | 3,000 | 13,300 | 12,000 |
| | SCH913P | BCH913P | 0.563 | 14.288 | 0.813 | 20.638 | 0.813 | 20.638 | 0.042 | 19 | 3,250 | 14,400 | 4,250 | 19,000 | 12,000 |
| | HK 1514 RS | BK 1514 RS | 0.591 | 15 | 0.827 | 21 | 0.551 | 14 | 0.026 | 12 | 1,750 | 7,800 | 2,200 | 9,800 | 11,000 |
| HK 1516.2RS | | | 0.591 | 15 | 0.827 | 21 | 0.630 | 16 | 0.033 | 15 | 1,750 | 7,800 | 2,200 | 9,800 | 11,000 |
| | HK 1518 RS | | 0.591 | 15 | 0.827 | 21 | 0.709 | 18 | 0.035 | 16 | 2,360 | 10,500 | 3,250 | 14,400 | 11,000 |
| HK 1520.2RS | | | 0.591 | 15 | 0.827 | 21 | 0.787 | 20 | 0.040 | 18 | 2,360 | 10,500 | 3,250 | 14,400 | 11,000 |
| | SCE109P | | 0.625 | 15.875 | 0.813 | 20.638 | 0.563 | 14.288 | 0.022 | 10 | 1,830 | 8,100 | 2,700 | 12,000 | 13,000 |
| SCE1010PP | | | 0.625 | 15.875 | 0.813 | 20.638 | 0.625 | 15.875 | 0.022 | 10 | 1,830 | 8,100 | 2,700 | 12,000 | 13,000 |
| | SCE1011P | | 0.625 | 15.875 | 0.813 | 20.638 | 0.687 | 17.460 | 0.026 | 12 | 2,330 | 10,400 | 3,650 | 16,300 | 13,000 |
| SCE1012PP | | | 0.625 | 15.875 | 0.813 | 20.638 | 0.750 | 19.050 | 0.029 | 13 | 2,330 | 10,400 | 3,650 | 16,300 | 13,000 |

# Shell Bearings
## SEALED SERIES

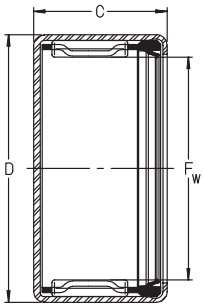
- Drawn cup caged needle bearings
- Open and closed, single or double sealed



SCE..PP, SCH..PP, HK..2RS



SCE..P, SCH..P, HK..RS



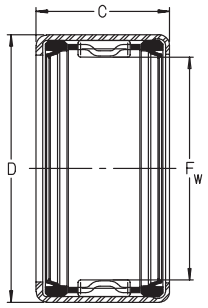
BCE..P, BCH..P, BK..RS

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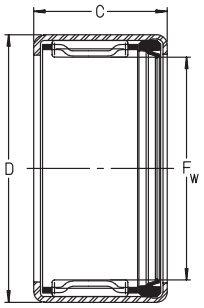
| PART NUMBER 2 SEALS | PART NUMBER 1 SEAL | PART NUMBER 1 SEAL CLOSED END | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SCE1014PP | | | 0.625 | 15.875 | 0.813 | 20.638 | 0.875 | 22.225 | 0.033 | 15 | 2,700 | 12,100 | 4,450 | 19,700 | 13,000 |
| | HK 1614 RS | BK 1614 RS | 0.630 | 16 | 0.866 | 22 | 0.551 | 14 | 0.029 | 13 | 1,710 | 7,600 | 2,180 | 9,700 | 11,000 |
| HK 1616.2RS | | | 0.630 | 16 | 0.866 | 22 | 0.630 | 16 | 0.031 | 14 | 1,710 | 7,600 | 2,180 | 9,700 | 11,000 |
| HK 1620.2RS | | | 0.630 | 16 | 0.866 | 22 | 0.787 | 20 | 0.040 | 18 | 2,450 | 10,900 | 3,450 | 15,300 | 11,000 |
| | | BCH06604PK | 0.670 | 17.015 | 0.938 | 23.813 | 0.688 | 17.480 | 0.037 | 17 | 1,660 | 7,400 | 1,800 | 8,000 | 11,000 |
| | | BCH06604PR | 0.670 | 17.015 | 0.938 | 23.813 | 0.688 | 17.480 | 0.037 | 17 | 1,660 | 7,400 | 1,800 | 8,000 | 11,000 |
| | SCH06604PR | | 0.670 | 17.015 | 0.939 | 23.838 | 0.688 | 17.480 | 0.029 | 13 | 1,660 | 7,400 | 1,800 | 8,000 | 11,000 |
| | HK 1814 RS | | 0.709 | 18 | 0.945 | 24 | 0.551 | 14 | 0.031 | 14 | 1,820 | 8,100 | 2,450 | 10,900 | 9,500 |
| HK 1816.2RS | | | 0.709 | 18 | 0.945 | 24 | 0.630 | 16 | 0.033 | 15 | 1,820 | 8,100 | 2,450 | 10,900 | 9,500 |
| SCE128PP | | | 0.750 | 19.050 | 1.000 | 25.400 | 0.438 | 11.112 | 0.029 | 13 | 1,600 | 7,100 | 1,860 | 8,300 | 10,000 |
| | SCE129P | BCE129P | 0.750 | 19.050 | 1.000 | 25.400 | 0.563 | 14.288 | 0.037 | 17 | 2,210 | 9,800 | 2,800 | 12,500 | 10,000 |
| SCE1210PP | | | 0.750 | 19.050 | 1.000 | 25.400 | 0.625 | 15.875 | 0.036 | 17 | 2,210 | 9,800 | 2,800 | 12,500 | 10,000 |
| | SCE1211P | BCE1211P | 0.750 | 19.050 | 1.000 | 25.400 | 0.687 | 17.460 | 0.049 | 22 | 2,850 | 12,800 | 3,950 | 17,500 | 10,000 |
| SCE1212PP | | | 0.750 | 19.050 | 1.000 | 25.400 | 0.750 | 19.050 | 0.045 | 20 | 2,850 | 12,800 | 3,950 | 17,500 | 10,000 |
| SCE1214PPR | | | 0.750 | 19.050 | 1.000 | 25.400 | 0.875 | 22.225 | 0.056 | 25 | 3,450 | 15,300 | 5,000 | 22,100 | 10,000 |
| HK 2016.2RS | | | 0.787 | 20 | 1.024 | 26 | 0.630 | 16 | 0.040 | 18 | 1,930 | 8,600 | 2,700 | 12,100 | 8,500 |
| | HK 2018 RS | BK 2018 RS | 0.787 | 20 | 1.024 | 26 | 0.709 | 18 | 0.046 | 21 | 2,850 | 12,700 | 4,500 | 20,100 | 8,500 |
| HK 2020.2RS | | | 0.787 | 20 | 1.024 | 26 | 0.787 | 20 | 0.051 | 23 | 2,850 | 12,700 | 4,500 | 20,100 | 8,500 |
| | HK 2214 RS | | 0.866 | 22 | 1.102 | 28 | 0.551 | 14 | 0.035 | 16 | 2,050 | 9,100 | 3,000 | 13,400 | 8,000 |
| HK 2216.2RS | | | 0.866 | 22 | 1.102 | 28 | 0.630 | 16 | 0.040 | 18 | 2,050 | 9,100 | 3,000 | 13,400 | 8,000 |
| | HK 2218 RS | | 0.866 | 22 | 1.102 | 28 | 0.709 | 18 | 0.053 | 24 | 3,000 | 13,400 | 4,950 | 22,100 | 8,000 |
| HK 2220.2RS | | | 0.866 | 22 | 1.102 | 28 | 0.787 | 20 | 0.057 | 26 | 3,000 | 13,400 | 4,950 | 22,100 | 8,000 |
| SCE148PP | | | 0.875 | 22.225 | 1.125 | 28.575 | 0.500 | 12.700 | 0.035 | 16 | 1,850 | 8,200 | 2,400 | 10,700 | 9,000 |
| SCE1414PP | | | 0.875 | 22.225 | 1.125 | 28.575 | 0.875 | 22.225 | 0.066 | 30 | 3,800 | 16,900 | 6,100 | 27,000 | 9,000 |
| | SCH1413P | BCH1413P | 0.875 | 22.225 | 1.188 | 30.162 | 0.813 | 20.638 | 0.075 | 34 | 4,400 | 19,500 | 6,100 | 27,000 | 8,000 |
| SCH1414PP | | | 0.875 | 22.225 | 1.188 | 30.162 | 0.875 | 22.225 | 0.060 | 27 | 4,050 | 18,100 | 6,100 | 27,000 | 8,000 |
| HK 2516.2RS | | | 0.984 | 25 | 1.260 | 32 | 0.630 | 16 | 0.060 | 27 | 2,470 | 11,000 | 3,400 | 15,200 | 7,000 |
| | HK 2518 RS | BK 2518 RS | 0.984 | 25 | 1.260 | 32 | 0.709 | 18 | 0.064 | 29 | 3,500 | 15,600 | 5,400 | 24,000 | 7,000 |
| HK 2520.2RS | | | 0.984 | 25 | 1.260 | 32 | 0.787 | 20 | 0.068 | 31 | 3,500 | 15,600 | 5,400 | 24,000 | 7,000 |
| HK 2524.2RS | | | 0.984 | 25 | 1.260 | 32 | 0.945 | 24 | 0.088 | 40 | 4,450 | 19,900 | 7,400 | 33,000 | 7,000 |
| HK 2530.2RS | | | 0.984 | 25 | 1.260 | 32 | 1.181 | 30 | 0.104 | 47 | 5,700 | 25,500 | 10,100 | 45,000 | 7,000 |
| SCE1616PP | | | 1.000 | 25.400 | 1.250 | 31.750 | 1.000 | 25.400 | 0.073 | 33 | 4,050 | 18,000 | 6,800 | 30,000 | 8,000 |
| | SCH1613P | | 1.000 | 25.400 | 1.313 | 33.338 | 0.813 | 20.638 | 0.079 | 36 | 4,150 | 18,500 | 6,400 | 28,500 | 7,000 |
| | SCH1614P | BCH1614P | 1.000 | 25.400 | 1.313 | 33.338 | 0.875 | 22.225 | 0.086 | 39 | 4,500 | 20,000 | 6,400 | 28,500 | 7,000 |
| SCH1616PP | | | 1.000 | 25.400 | 1.313 | 33.338 | 1.000 | 25.400 | 0.095 | 43 | 4,500 | 20,000 | 6,400 | 28,500 | 7,000 |
| HK 2820.2RS | | | 1.102 | 28 | 1.378 | 35 | 0.787 | 20 | 0.075 | 34 | 3,700 | 16,400 | 6,000 | 26,500 | 6,000 |
| HK 3016.2RS | | | 1.181 | 30 | 1.457 | 37 | 0.630 | 16 | 0.068 | 31 | 2,700 | 12,100 | 4,100 | 18,200 | 6,000 |
| HK 3018 RS | | | 1.181 | 30 | 1.457 | 37 | 0.709 | 18 | 0.082 | 37 | 3,850 | 17,200 | 6,500 | 29,000 | 6,000 |
| HK 3020.2RS | | | 1.181 | 30 | 1.457 | 37 | 0.787 | 20 | 0.079 | 36 | 3,850 | 17,200 | 6,500 | 29,000 | 6,000 |
| HK 3024.2RS | | | 1.181 | 30 | 1.457 | 37 | 0.945 | 24 | 0.097 | 44 | 4,950 | 22,000 | 8,900 | 39,500 | 6,000 |
| | SCE2012P | | 1.250 | 31.750 | 1.500 | 38.100 | 0.750 | 19.050 | 0.079 | 36 | 3,650 | 16,300 | 6,400 | 28,500 | 6,500 |
| | SCE2014PR | | 1.250 | 31.750 | 1.500 | 38.100 | 0.875 | 22.225 | 0.084 | 38 | 4,750 | 21,100 | 8,900 | 39,500 | 6,500 |
| SCE2016PPR | | | 1.250 | 31.750 | 1.500 | 38.100 | 1.000 | 25.400 | 0.108 | 49 | 4,750 | 21,100 | 8,900 | 39,500 | 6,500 |
| | SCH2018P | | 1.250 | 31.750 | 1.625 | 41.275 | 1.125 | 28.580 | 0.168 | 76 | 8,200 | 36,500 | 13,000 | 58,000 | 6,000 |
| SCH2020PP | | | 1.250 | 31.750 | 1.625 | 41.275 | 1.250 | 31.750 | 0.192 | 87 | 7,400 | 33,000 | 12,800 | 57,000 | 6,000 |
| | | BCH2212PV | 1.375 | 34.925 | 1.750 | 44.450 | 0.750 | 19.050 | 0.099 | 45 | 5,600 | 25,000 | 9,100 | 40,500 | 6,000 |

# Shell Bearings
## SEALED SERIES

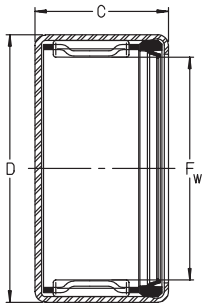
- Drawn cup caged needle bearings
- Open and closed, single or double sealed



SCE..PP, SCH..PP, HK..2RS



SCE..P, SCH..P, HK..RS



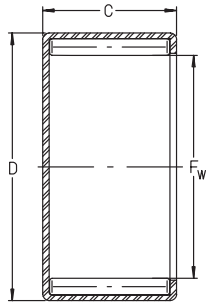
BCE..P, BCH..P, BK..RS

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

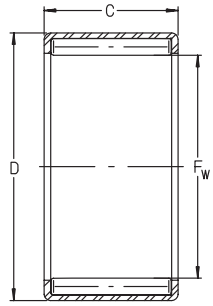
| PART NUMBER 2 SEALS | PART NUMBER 1 SEAL | PART NUMBER 1 SEAL CLOSED END | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HK 3516.2RS | | | 1.378 | 35 | 1.654 | 42 | 0.630 | 16 | 0.071 | 32 | 2,950 | 13,100 | 4,800 | 21,300 | 5,000 |
| | HK 3518 RS | | 1.378 | 35 | 1.654 | 42 | 0.709 | 18 | 0.086 | 39 | 4,200 | 18,700 | 7,500 | 33,500 | 5,000 |
| HK 3520.2RS | | | 1.378 | 35 | 1.654 | 42 | 0.787 | 20 | 0.090 | 41 | 4,200 | 18,700 | 7,500 | 33,500 | 5,000 |
| | SCE2414P | | 1.500 | 38.100 | 1.875 | 47.625 | 0.875 | 22.225 | 0.155 | 70 | 6,900 | 30,500 | 11,100 | 49,500 | 5,500 |
| | SCE2416P | | 1.500 | 38.100 | 1.875 | 47.625 | 1.000 | 25.400 | 0.183 | 83 | 8,100 | 36,000 | 13,700 | 61,000 | 5,500 |
| | SCE2422P | | 1.500 | 38.100 | 1.875 | 47.625 | 1.375 | 34.920 | 0.243 | 110 | 10,600 | 47,000 | 19,200 | 19,464 | 5,500 |
| SCE2424PP | | | 1.500 | 38.100 | 1.875 | 47.625 | 1.500 | 38.100 | 0.258 | 117 | 10,600 | 47,000 | 19,200 | 19,464 | 5,500 |
| HK 4016.2RS | | | 1.575 | 40 | 1.850 | 47 | 0.630 | 16 | 0.082 | 37 | 3,150 | 14,000 | 5,500 | 24,300 | 4,500 |
| | HK 4018 RS | | 1.575 | 40 | 1.850 | 47 | 0.709 | 18 | 0.099 | 45 | 4,500 | 20,000 | 8,700 | 38,500 | 4,500 |
| HK 4020.2RS | | | 1.575 | 40 | 1.850 | 47 | 0.787 | 20 | 0.106 | 48 | 4,500 | 20,000 | 8,700 | 38,500 | 4,500 |
| | HK 4518 RS | | 1.772 | 45 | 2.047 | 52 | 0.709 | 18 | 0.110 | 50 | 4,800 | 21,300 | 9,700 | 43,000 | 4,000 |
| HK 4520.2RS | | | 1.772 | 45 | 2.047 | 52 | 0.787 | 20 | 0.119 | 54 | 4,800 | 21,300 | 9,700 | 43,000 | 4,000 |
| | HK 5022 RS | | 1.969 | 50 | 2.284 | 58 | 0.866 | 22 | 0.168 | 76 | 7,000 | 31,000 | 14,200 | 63,000 | 3,600 |
| HK 5024.2RS | | | 1.969 | 50 | 2.284 | 58 | 0.945 | 24 | 0.179 | 81 | 7,000 | 31,000 | 14,200 | 63,000 | 3,600 |

# Shell Bearings
## CSN, SN, SNH SERIES

- Full complement grease retained series
- Drawn cup needle rollers
- Open and closed end designs



CSN, CSNH



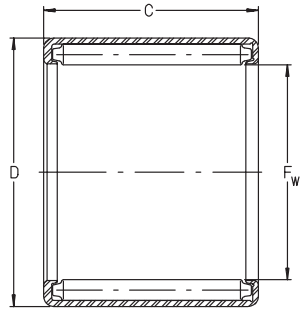
SN, SNH

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

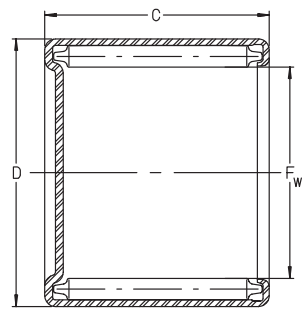
| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SN45 | 0.250 | 6.350 | 0.438 | 11.112 | 0.313 | 7.938 | 0.007 | 3 | 980 | 4,350 | 1,100 | 4,900 | 10,000 |
| SN55 | 0.313 | 7.938 | 0.500 | 12.700 | 0.313 | 7.938 | 0.009 | 4 | 1,260 | 5,600 | 1,390 | 6,200 | 8,300 |
| SN56 | 0.313 | 7.938 | 0.500 | 12.700 | 0.375 | 9.525 | 0.011 | 5 | 1,370 | 6,100 | 1,980 | 8,800 | 8,300 |
| SN57 | 0.313 | 7.938 | 0.500 | 12.700 | 0.438 | 11.113 | 0.011 | 5 | 1,620 | 7,200 | 2,200 | 9,800 | 8,300 |
| SN65 | 0.375 | 9.525 | 0.563 | 14.288 | 0.313 | 7.938 | 0.010 | 5 | 1,390 | 6,200 | 1,660 | 7,400 | 7,100 |
| CSN66 | 0.375 | 9.525 | 0.563 | 14.288 | 0.500 | 12.700 | 0.008 | 4 | 1,550 | 6,900 | 2,090 | 9,300 | 7,100 |
| SN66 | 0.375 | 9.525 | 0.563 | 14.288 | 0.375 | 9.525 | 0.008 | 4 | 1,300 | 5,800 | 1,190 | 5,300 | 7,100 |
| SN68 | 0.375 | 9.525 | 0.563 | 14.288 | 0.500 | 12.700 | 0.015 | 7 | 1,730 | 7,700 | 1,730 | 7,700 | 7,100 |
| SN76 | 0.438 | 11.112 | 0.625 | 15.875 | 0.375 | 9.525 | 0.020 | 9 | 1,710 | 7,600 | 2,470 | 11,000 | 6,300 |
| SN78 | 0.438 | 11.112 | 0.625 | 15.875 | 0.500 | 12.700 | 0.018 | 8 | 2,230 | 9,900 | 3,600 | 16,000 | 6,300 |
| SN88 | 0.500 | 12.700 | 0.688 | 17.462 | 0.500 | 12.700 | 0.020 | 9 | 2,650 | 11,800 | 4,150 | 18,400 | 5,600 |
| SN810 | 0.500 | 12.700 | 0.688 | 17.462 | 0.625 | 15.875 | 0.024 | 11 | 2,900 | 12,900 | 5,300 | 23,600 | 5,600 |
| SN812 | 0.500 | 12.700 | 0.688 | 17.462 | 0.750 | 19.050 | 0.031 | 14 | 3,600 | 15,900 | 6,600 | 29,500 | 5,600 |
| SNH87 | 0.500 | 12.700 | 0.750 | 19.050 | 0.438 | 11.112 | 0.024 | 11 | 2,110 | 9,400 | 1,960 | 8,700 | 5,300 |
| SN105 | 0.625 | 15.875 | 0.813 | 20.638 | 0.313 | 7.938 | 0.015 | 7 | 1,440 | 6,400 | 1,510 | 6,700 | 4,550 |
| SN116 | 0.688 | 17.462 | 0.875 | 22.225 | 0.375 | 9.525 | 0.019 | 9 | 2,090 | 9,300 | 3,850 | 17,100 | 4,200 |
| SN128 | 0.750 | 19.050 | 1.000 | 25.400 | 0.500 | 12.700 | 0.037 | 17 | 3,350 | 15,000 | 5,600 | 25,000 | 3,750 |
| SN148 | 0.875 | 22.225 | 1.125 | 28.575 | 0.500 | 12.700 | 0.040 | 18 | 3,900 | 17,400 | 7,100 | 31,500 | 3,250 |
| SN1816 | 1.125 | 28.575 | 1.375 | 34.925 | 1.000 | 25.400 | 0.130 | 59 | 8,200 | 36,500 | 20,200 | 90,000 | 2,600 |
| CSN2816 | 1.750 | 44.450 | 2.125 | 53.975 | 1.000 | 25.400 | 0.269 | 122 | 13,300 | 59,000 | 30,500 | 136,000 | 1,660 |

# Full Complement Shell Bearings
## MECHANICALLY RETAINED SERIES

- Drawn cup
- Open or closed end




S, SH



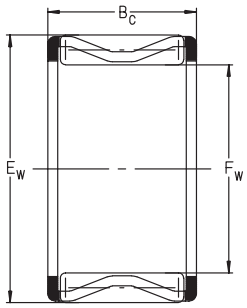

CS, CSH

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S44 | 0.250 | 6.350 | 0.438 | 11.112 | 0.250 | 6.350 | 0.004 | 2 | 600 | 2650 | 570 | 2550 | 15,000 |
| S45 | 0.250 | 6.350 | 0.438 | 11.112 | 0.313 | 7.938 | 0.007 | 3 | 820 | 3650 | 880 | 3900 | 15,000 |
| S55 | 0.313 | 7.938 | 0.500 | 12.700 | 0.313 | 7.938 | 0.007 | 3 | 940 | 4200 | 1,100 | 4900 | 12,500 |
| S57 | 0.313 | 7.938 | 0.500 | 12.700 | 0.438 | 11.112 | 0.011 | 5 | 1,420 | 6300 | 1,870 | 8300 | 12,500 |
| CS59 | 0.313 | 7.938 | 0.500 | 12.700 | 0.563 | 14.288 | 0.015 | 7 | 1,870 | 8300 | 2,700 | 11900 | 12,500 |
| S66 | 0.375 | 9.525 | 0.563 | 14.288 | 0.375 | 9.525 | 0.011 | 5 | 1,300 | 5800 | 1,780 | 7900 | 10,700 |
| S78 | 0.438 | 11.112 | 0.625 | 15.875 | 0.500 | 12.700 | 0.018 | 8 | 2,230 | 9900 | 3,150 | 14100 | 9,400 |
| S810 | 0.500 | 12.700 | 0.688 | 17.462 | 0.625 | 15.875 | 0.024 | 11 | 2,700 | 12000 | 4,850 | 21600 | 8,300 |
| S85 | 0.500 | 12.700 | 0.688 | 17.462 | 0.313 | 7.938 | 0.021 | 10 | 1,370 | 6100 | 1,780 | 7900 | 8,400 |
| S88 | 0.500 | 12.700 | 0.688 | 17.462 | 0.500 | 12.700 | 0.020 | 9 | 2,180 | 9700 | 3,650 | 16300 | 8,400 |
| S98 | 0.563 | 14.288 | 0.750 | 19.050 | 0.500 | 12.700 | 0.020 | 9 | 2,300 | 10230 | 4,050 | 18014 | 7,500 |
| S1012 | 0.625 | 15.875 | 0.813 | 20.638 | 0.750 | 19.050 | 0.035 | 16 | 3,650 | 16300 | 7,600 | 34000 | 6,800 |
| S108 | 0.625 | 15.875 | 0.813 | 20.638 | 0.500 | 12.700 | 0.022 | 10 | 2,450 | 10900 | 4,550 | 20300 | 6,800 |
| S116 | 0.688 | 17.462 | 0.875 | 22.225 | 0.375 | 9.525 | 0.020 | 9 | 2,050 | 9100 | 3,250 | 14400 | 6,300 |
| S1110 | 0.688 | 17.463 | 0.875 | 22.225 | 0.625 | 15.880 | 0.031 | 14 | 3,200 | 14200 | 6,700 | 30000 | 6,300 |
| S1112 | 0.688 | 17.463 | 0.875 | 22.225 | 0.750 | 19.050 | 0.037 | 17 | 3,850 | 17100 | 8,400 | 37500 | 6,300 |
| S1210 | 0.750 | 19.050 | 1.000 | 25.400 | 0.625 | 15.875 | 0.044 | 20 | 4,000 | 17700 | 7,000 | 31000 | 5,600 |
| CS1210 | 0.750 | 19.050 | 1.000 | 25.400 | 0.625 | 15.875 | 0.044 | 20 | 4,000 | 17700 | 7,000 | 31000 | 5,600 |
| S1212 | 0.750 | 19.050 | 1.000 | 25.400 | 0.750 | 19.050 | 0.055 | 25 | 4,800 | 21350 | 8,900 | 39500 | 5,600 |
| S128 | 0.750 | 19.050 | 1.000 | 25.400 | 0.500 | 12.700 | 0.035 | 16 | 3,200 | 14300 | 5,200 | 23100 | 5,600 |
| S1316 | 0.813 | 20.638 | 1.063 | 26.988 | 1.000 | 25.400 | 0.079 | 36 | 7,300 | 32500 | 13,700 | 61000 | 5,200 |
| CS1316 | 0.813 | 20.638 | 1.063 | 26.988 | 1.000 | 25.400 | 0.079 | 36 | 7,300 | 32500 | 13,700 | 61000 | 5,200 |
| S138 | 0.813 | 20.638 | 1.063 | 26.988 | 0.500 | 12.700 | 0.040 | 18 | 3,000 | 13400 | 4,900 | 21700 | 5,200 |
| S1412 | 0.875 | 22.225 | 1.125 | 28.575 | 0.750 | 19.050 | 0.064 | 29 | 5,000 | 22300 | 8,800 | 39000 | 4,900 |
| S148 | 0.875 | 22.225 | 1.125 | 28.575 | 0.500 | 12.700 | 0.040 | 18 | 3,650 | 16300 | 5,800 | 26000 | 4,900 |
| CS1516 | 0.938 | 23.812 | 1.188 | 30.162 | 1.000 | 25.400 | 0.084 | 38 | 7,500 | 33500 | 14,800 | 66000 | 4,600 |
| S1612 | 1.000 | 25.400 | 1.250 | 31.750 | 0.750 | 19.050 | 0.071 | 32 | 5,500 | 24600 | 11,900 | 53000 | 4,300 |
| S168 | 1.000 | 25.400 | 1.250 | 31.750 | 0.500 | 12.700 | 0.044 | 20 | 3,600 | 15900 | 6,700 | 30000 | 4,300 |
| SH1612 | 1.000 | 25.400 | 1.314 | 33.380 | 0.750 | 19.050 | 0.088 | 40 | 6,900 | 30500 | 11,100 | 49500 | 4,250 |
| SH1616 | 1.000 | 25.400 | 1.314 | 33.380 | 1.000 | 25.400 | 0.108 | 49 | 8,900 | 39500 | 15,700 | 70000 | 4,250 |
| S1710 | 1.063 | 26.988 | 1.313 | 33.338 | 0.625 | 15.875 | 0.062 | 28 | 4,750 | 21100 | 9,900 | 44000 | 4,100 |
| S1812 | 1.125 | 28.575 | 1.375 | 34.925 | 0.750 | 19.050 | 0.079 | 36 | 6,500 | 29000 | 13,300 | 59000 | 3,900 |
| S2012 | 1.250 | 31.750 | 1.500 | 38.100 | 0.750 | 19.050 | 0.086 | 39 | 6,300 | 28000 | 14,800 | 66000 | 3,500 |
| S2016 | 1.250 | 31.750 | 1.500 | 38.100 | 1.000 | 25.400 | 0.117 | 53 | 8,200 | 36500 | 20,900 | 93000 | 3,500 |
| S2212 | 1.375 | 34.925 | 1.625 | 41.275 | 0.750 | 19.050 | 0.095 | 43 | 6,400 | 28500 | 16,000 | 71000 | 3,200 |
| S2220 | 1.375 | 34.925 | 1.625 | 41.275 | 1.250 | 31.750 | 0.159 | 72 | 10,300 | 46000 | 30,000 | 133000 | 3,200 |
| S2416 | 1.500 | 38.100 | 1.875 | 47.625 | 1.000 | 25.400 | 0.207 | 94 | 10,700 | 47500 | 2,410 | 10700 | 2,850 |
| S2610 | 1.625 | 41.275 | 2.000 | 50.800 | 0.625 | 15.875 | 0.130 | 59 | 6,500 | 29000 | 12,400 | 55000 | 2,650 |
| S268 | 1.625 | 41.275 | 2.000 | 50.800 | 0.500 | 12.700 | 0.088 | 40 | 7,300 | 32500 | 12,400 | 55000 | 2,650 |
| S2812 | 1.750 | 44.450 | 2.125 | 53.975 | 0.750 | 19.050 | 0.175 | 80 | 8,100 | 36000 | 16,900 | 75000 | 2,490 |
| S2824 | 1.750 | 44.450 | 2.125 | 53.975 | 1.500 | 38.100 | 0.375 | 170 | 18,900 | 84000 | 44,000 | 196000 | 2,490 |
| S3016 | 1.875 | 47.625 | 2.250 | 57.150 | 1.000 | 25.400 | 0.256 | 116 | 13,500 | 60000 | 28,500 | 126000 | 2,340 |
| S308 | 1.875 | 47.625 | 2.250 | 57.150 | 0.500 | 12.700 | 0.115 | 52 | 5,700 | 25500 | 9,600 | 42500 | 2,340 |
| S3216 | 2.000 | 50.800 | 2.375 | 60.325 | 1.000 | 25.400 | 0.267 | 121 | 12,400 | 55000 | 30,500 | 136000 | 2,200 |
| S3624 | 2.250 | 57.150 | 2.625 | 66.675 | 1.500 | 38.100 | 0.084 | 38 | 19,600 | 87000 | 56,000 | 250000 | 1,970 |
| S4216 | 2.625 | 66.675 | 3.000 | 76.200 | 1.000 | 25.400 | 0.353 | 160 | 14,400 | 64000 | 40,000 | 177000 | 1,700 |

# Needle Roller And Cage Assemblies
## UNIT CAGE SERIES

- Inch and metric
- Single and double row

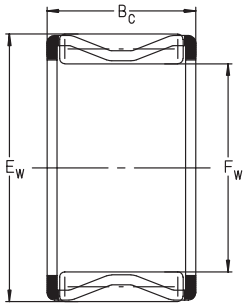



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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | HSG. BORE $E_w$ inch | HSG. BORE $E_w$ mm | WIDTH $B_c$ inch | WIDTH $B_c$ mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K 3x5x7 TN | 0.118 | 3 | 0.197 | 5 | 0.276 | 7 | 0.001 | 0.3 | 345 | 1540 | 290 | 1290 | 50,000 |
| K 3x5x9 TN | 0.118 | 3 | 0.197 | 5 | 0.354 | 9 | 0.001 | 0.4 | 385 | 1710 | 335 | 1480 | 50,000 |
| K 3x6x7 TN | 0.118 | 3 | 0.236 | 6 | 0.276 | 7 | 0.001 | 0.4 | 320 | 1430 | 218 | 970 | 47,000 |
| K 4x7x7 TN | 0.158 | 4 | 0.276 | 7 | 0.276 | 7 | 0.001 | 0.5 | 390 | 1740 | 285 | 1270 | 43,000 |
| K 4x7x10 TN | 0.158 | 4 | 0.276 | 7 | 0.394 | 10 | 0.002 | 0.7 | 520 | 2330 | 415 | 1840 | 43,000 |
| K 5x8x8 TN | 0.197 | 5 | 0.315 | 8 | 0.315 | 8 | 0.002 | 0.7 | 530 | 2350 | 430 | 1920 | 39,000 |
| K 5x8x10 TN | 0.197 | 5 | 0.315 | 8 | 0.394 | 10 | 0.002 | 0.9 | 670 | 3000 | 600 | 2650 | 39,000 |
| K 6x9x8 TN | 0.236 | 6 | 0.354 | 9 | 0.315 | 8 | 0.002 | 0.8 | 590 | 2600 | 510 | 2280 | 37,000 |
| K 6x9x10 TN | 0.236 | 6 | 0.354 | 9 | 0.394 | 10 | 0.002 | 1.1 | 750 | 3350 | 710 | 3150 | 37,000 |
| K 6x10x13 TN | 0.236 | 6 | 0.394 | 10 | 0.512 | 13 | 0.004 | 1.9 | 850 | 3800 | 700 | 3100 | 35,000 |
| K 7x9x7 TN | 0.276 | 7 | 0.354 | 9 | 0.276 | 7 | 0.001 | 0.6 | 405 | 1810 | 425 | 1880 | 35,000 |
| K 7x10x8 TN | 0.276 | 7 | 0.394 | 10 | 0.315 | 8 | 0.002 | 0.9 | 640 | 2850 | 600 | 2650 | 34,000 |
| K 7x10x10 TN | 0.276 | 7 | 0.394 | 10 | 0.394 | 10 | 0.002 | 1 | 820 | 3650 | 810 | 3600 | 34,000 |
| K 8x11x8 TN | 0.315 | 8 | 0.433 | 11 | 0.315 | 8 | 0.002 | 1 | 700 | 3100 | 670 | 3000 | 32,000 |
| K 8x11x10 TN | 0.315 | 8 | 0.433 | 11 | 0.394 | 10 | 0.003 | 1.2 | 890 | 3950 | 920 | 4100 | 32,000 |
| K 8x11x13 TN | 0.315 | 8 | 0.433 | 11 | 0.512 | 13 | 0.004 | 1.7 | 1,150 | 5100 | 1,300 | 5800 | 32,000 |
| K 8x12x8 | 0.315 | 8 | 0.472 | 12 | 0.315 | 8 | 0.001 | 0.4 | 800 | 3550 | 690 | 3050 | 32,000 |
| K 8x12x10 TN | 0.315 | 8 | 0.472 | 12 | 0.394 | 10 | 0.004 | 2 | 1,120 | 5000 | 1,060 | 4700 | 32,000 |
| K 9x12x10 TN | 0.354 | 9 | 0.472 | 12 | 0.394 | 10 | 0.003 | 1.5 | 1,010 | 4500 | 1,120 | 5000 | 31,000 |
| K 9x12x13 TN | 0.354 | 9 | 0.472 | 12 | 0.512 | 13 | 0.005 | 2.1 | 1,330 | 5900 | 1,600 | 7100 | 31,000 |
| C060806 | 0.375 | 9.525 | 0.500 | 12.700 | 0.375 | 9.525 | 0.005 | 2.5 | 900 | 4000 | 940 | 4200 | 30,000 |
| K 10x13x10 TN | 0.394 | 10 | 0.512 | 13 | 0.394 | 10 | 0.004 | 1.6 | 1,070 | 4750 | 1,240 | 5500 | 29,000 |
| K 10x13x13 TN | 0.394 | 10 | 0.512 | 13 | 0.512 | 13 | 0.005 | 2.3 | 1,390 | 6200 | 1,750 | 7800 | 29,000 |
| K 10x13x16 TN | 0.394 | 10 | 0.512 | 13 | 0.630 | 16 | 0.006 | 2.9 | 1,600 | 7100 | 2,090 | 9300 | 29,000 |
| K 10x14x10 TN | 0.394 | 10 | 0.551 | 14 | 0.394 | 10 | 0.006 | 2.5 | 1,300 | 5800 | 1,350 | 6000 | 29,000 |
| K 10x14x13 TN | 0.394 | 10 | 0.551 | 14 | 0.512 | 13 | 0.01 | 4.6 | 1,690 | 7500 | 1,890 | 8400 | 29,000 |
| K 10x16x12 TN | 0.394 | 10 | 0.630 | 16 | 0.472 | 12 | 0.012 | 5.5 | 1,820 | 8100 | 1,620 | 7200 | 28,000 |
| K 12x15x10 TN | 0.472 | 12 | 0.591 | 15 | 0.394 | 10 | 0.006 | 2.9 | 1,100 | 4900 | 1,370 | 6100 | 27,000 |
| K 12x15x13 TN | 0.472 | 12 | 0.591 | 15 | 0.512 | 13 | 0.005 | 2.3 | 1,440 | 6400 | 1,910 | 8500 | 27,000 |
| K 12x15x20 ZW TN | 0.472 | 12 | 0.591 | 15 | 0.787 | 20 | 0.011 | 5 | 1,890 | 8400 | 2,750 | 12200 | 27,000 |
| K 12x16x10 | 0.472 | 12 | 0.630 | 16 | 0.394 | 10 | 0.008 | 3.7 | 1,440 | 6400 | 1,620 | 7200 | 27,000 |
| K 12x16x13 TN | 0.472 | 12 | 0.630 | 16 | 0.512 | 13 | 0.012 | 5.5 | 1,800 | 8000 | 2,110 | 9400 | 27,000 |
| K 12x17x13 TN | 0.472 | 12 | 0.669 | 17 | 0.512 | 13 | 0.011 | 4.9 | 2,160 | 9600 | 2,340 | 10400 | 26,000 |
| K 12x18x12 TN | 0.472 | 12 | 0.709 | 18 | 0.472 | 12 | 0.013 | 6 | 2,250 | 10000 | 2,230 | 9900 | 26,000 |
| C081008 | 0.500 | 12.700 | 0.625 | 15.875 | 0.500 | 12.700 | 0.009 | 4.2 | 1,490 | 6600 | 1,960 | 8700 | 26,000 |
| K 14x17x10 | 0.551 | 14 | 0.669 | 17 | 0.394 | 10 | 0.009 | 4 | 1,190 | 5300 | 1,600 | 7100 | 25,000 |
| K 14x17x17 TN | 0.551 | 14 | 0.669 | 17 | 0.669 | 17 | 0.009 | 4 | 2,050 | 9100 | 3,150 | 14100 | 25,000 |
| K 14x18x10 | 0.551 | 14 | 0.709 | 18 | 0.394 | 10 | 0.009 | 4 | 1,600 | 7100 | 1,910 | 8500 | 25,000 |
| K 14x18x13 | 0.551 | 14 | 0.709 | 18 | 0.512 | 13 | 0.014 | 6.5 | 1,840 | 8200 | 2,270 | 10100 | 25,000 |
| K 14x18x14 | 0.551 | 14 | 0.709 | 18 | 0.551 | 14 | 0.013 | 6 | 2,140 | 9500 | 2,750 | 12300 | 25,000 |
| K 14x18x15 TN | 0.551 | 14 | 0.709 | 18 | 0.591 | 15 | 0.011 | 5 | 2,140 | 9500 | 2,750 | 12300 | 25,000 |
| K 14x18x17 | 0.551 | 14 | 0.709 | 18 | 0.669 | 17 | 0.018 | 8 | 2,430 | 10800 | 3,250 | 14400 | 25,000 |
| K 14x20x12 | 0.551 | 14 | 0.787 | 20 | 0.472 | 12 | 0.019 | 8.5 | 2,320 | 10300 | 2,380 | 10600 | 24,000 |
| C091108 | 0.563 | 14.288 | 0.688 | 17.463 | 0.500 | 12.700 | 0.010 | 4.7 | 1,630 | 7300 | 2,290 | 10200 | 25,000 |
| C091110 | 0.563 | 14.288 | 0.688 | 17.463 | 0.625 | 15.875 | 0.013 | 5.9 | 2,190 | 9800 | 3,350 | 15000 | 25,000 |
| K 15x18x17 TN | 0.591 | 15 | 0.709 | 18 | 0.669 | 17 | 0.01 | 4.6 | 1,800 | 8000 | 2,700 | 12100 | 25,000 |

# Needle Roller And Cage Assemblies
## UNIT CAGE SERIES

- Inch and metric
- Single and double row

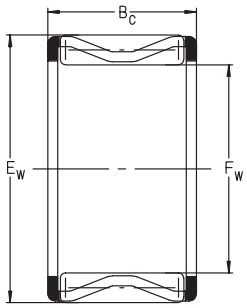



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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | HSG. BORE $E_w$ inch | HSG. BORE $E_w$ mm | WIDTH $B_c$ inch | WIDTH $B_c$ mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K 15x19x10 | 0.591 | 15 | 0.748 | 19 | 0.394 | 10 | 0.011 | 5 | 1,690 | 7500 | 2,070 | 9200 | 24,000 |
| K 15x19x13 | 0.591 | 15 | 0.748 | 19 | 0.512 | 13 | 0.015 | 7 | 1,910 | 8500 | 2,450 | 10900 | 24,000 |
| K 15x19x17 | 0.591 | 15 | 0.748 | 19 | 0.669 | 17 | 0.021 | 9.5 | 2,550 | 11300 | 3,500 | 15600 | 24,000 |
| K 15x20x13 | 0.591 | 15 | 0.787 | 20 | 0.512 | 13 | 0.015 | 7 | 2,230 | 9900 | 2,600 | 11500 | 24,000 |
| K 15x21x15 | 0.591 | 15 | 0.827 | 21 | 0.591 | 15 | 0.024 | 11 | 3,200 | 14300 | 3,700 | 16400 | 24,000 |
| K 15x21x21 | 0.591 | 15 | 0.827 | 21 | 0.827 | 21 | 0.037 | 17 | 4,350 | 19400 | 5,500 | 24300 | 24,000 |
| C101208 | 0.625 | 15.875 | 0.750 | 19.050 | 0.500 | 12.700 | 0.011 | 5.2 | 1,840 | 8200 | 2,750 | 12300 | 24,000 |
| K 16x20x10 | 0.630 | 16 | 0.787 | 20 | 0.394 | 10 | 0.012 | 5.5 | 1,750 | 7800 | 2,230 | 9900 | 24,000 |
| K 16x20x13 | 0.630 | 16 | 0.787 | 20 | 0.512 | 13 | 0.017 | 7.5 | 2,000 | 8900 | 2,650 | 11800 | 24,000 |
| K 16x20x17 | 0.630 | 16 | 0.787 | 20 | 0.669 | 17 | 0.022 | 10 | 2,650 | 11700 | 3,800 | 16800 | 24,000 |
| K 16x22x12 | 0.630 | 16 | 0.866 | 22 | 0.472 | 12 | 0.022 | 10 | 2,600 | 11500 | 2,800 | 12500 | 23,000 |
| K 16x22x13 | 0.630 | 16 | 0.866 | 22 | 0.512 | 13 | 0.026 | 12 | 2,800 | 12400 | 3,150 | 13900 | 23,000 |
| K 16x22x16 | 0.630 | 16 | 0.866 | 22 | 0.630 | 16 | 0.026 | 12 | 3,350 | 14800 | 3,950 | 17500 | 23,000 |
| K 16x22x20 | 0.630 | 16 | 0.866 | 22 | 0.787 | 20 | 0.037 | 17 | 4,100 | 18300 | 5,100 | 22800 | 23,000 |
| K 16x24x20 | 0.630 | 16 | 0.945 | 24 | 0.787 | 20 | 0.049 | 22 | 4,800 | 21400 | 5,300 | 23500 | 22,000 |
| K 17x21x10 | 0.669 | 17 | 0.827 | 21 | 0.394 | 10 | 0.012 | 5.5 | 1,820 | 8100 | 2,380 | 10600 | 23,000 |
| K 17x21x13 | 0.669 | 17 | 0.827 | 21 | 0.512 | 13 | 0.014 | 6.5 | 2,340 | 10400 | 3,300 | 14600 | 23,000 |
| K 17x21x17 | 0.669 | 17 | 0.827 | 21 | 0.669 | 17 | 0.021 | 9.5 | 2,750 | 12200 | 4,000 | 17900 | 23,000 |
| K 18x22x10 | 0.709 | 18 | 0.866 | 22 | 0.394 | 10 | 0.013 | 6 | 1,890 | 8400 | 2,550 | 11300 | 22,000 |
| K 18x22x13 | 0.709 | 18 | 0.866 | 22 | 0.512 | 13 | 0.018 | 8 | 2,070 | 9200 | 2,850 | 12700 | 22,000 |
| K 18x22x17 | 0.709 | 18 | 0.866 | 22 | 0.669 | 17 | 0.024 | 11 | 2,700 | 12100 | 4,050 | 18000 | 22,000 |
| K 18x24x12 | 0.709 | 18 | 0.945 | 24 | 0.472 | 12 | 0.026 | 12 | 2,650 | 11700 | 3,000 | 13300 | 22,000 |
| K 18x24x13 | 0.709 | 18 | 0.945 | 24 | 0.512 | 13 | 0.029 | 13 | 2,950 | 13100 | 3,450 | 15300 | 22,000 |
| K 18x24x20 | 0.709 | 18 | 0.945 | 24 | 0.787 | 20 | 0.04 | 18 | 4,550 | 20200 | 6,100 | 27000 | 22,000 |
| K 18x25x14 | 0.709 | 18 | 0.984 | 25 | 0.551 | 14 | 0.033 | 15 | 3,800 | 16800 | 4,350 | 19300 | 22,000 |
| K 18x25x22 | 0.709 | 18 | 0.984 | 25 | 0.866 | 22 | 0.051 | 23 | 5,200 | 23100 | 6,500 | 29000 | 22,000 |
| K 18x28x16 | 0.709 | 18 | 1.102 | 28 | 0.630 | 16 | 0.053 | 24 | 4,400 | 19600 | 4,250 | 18900 | 21,000 |
| K 19x23x13 | 0.748 | 19 | 0.906 | 23 | 0.512 | 13 | 0.018 | 8 | 2,140 | 9500 | 3,050 | 13500 | 22,000 |
| K 19x23x17 | 0.748 | 19 | 0.906 | 23 | 0.669 | 17 | 0.024 | 11 | 2,800 | 12500 | 4,300 | 19200 | 22,000 |
| C121616 | 0.750 | 19.050 | 1.000 | 25.400 | 1.000 | 25.400 | 0.058 | 26.4 | 5,600 | 25000 | 7,800 | 34500 | 21,000 |
| K 20x24x10 | 0.787 | 20 | 0.945 | 24 | 0.394 | 10 | 0.014 | 6.5 | 2,000 | 8900 | 2,850 | 12600 | 21,000 |
| K 20x24x12 | 0.787 | 20 | 0.945 | 24 | 0.472 | 12 | 0.018 | 8 | 2,200 | 9800 | 3,200 | 14300 | 21,000 |
| K 20x24x13 | 0.787 | 20 | 0.945 | 24 | 0.512 | 13 | 0.02 | 9 | 2,200 | 9800 | 3,200 | 14300 | 21,000 |
| K 20x24x17 | 0.787 | 20 | 0.945 | 24 | 0.669 | 17 | 0.026 | 12 | 2,900 | 12900 | 4,600 | 20400 | 21,000 |
| K 20x26x12 | 0.787 | 20 | 1.024 | 26 | 0.472 | 12 | 0.024 | 11 | 3,000 | 13400 | 3,650 | 16200 | 21,000 |
| K 20x26x13 | 0.787 | 20 | 1.024 | 26 | 0.512 | 13 | 0.026 | 12 | 3,250 | 14400 | 4,000 | 17900 | 21,000 |
| K 20x26x17 | 0.787 | 20 | 1.024 | 26 | 0.669 | 17 | 0.035 | 16 | 4,300 | 19200 | 5,800 | 26000 | 21,000 |
| K 20x26x20 | 0.787 | 20 | 1.024 | 26 | 0.787 | 20 | 0.042 | 19 | 4,750 | 21100 | 6,500 | 29000 | 21,000 |
| K 20x28x16 | 0.787 | 20 | 1.102 | 28 | 0.630 | 16 | 0.044 | 20 | 4,450 | 19800 | 5,000 | 22400 | 20,000 |
| K 20x28x20 | 0.787 | 20 | 1.102 | 28 | 0.787 | 20 | 0.06 | 27 | 5,400 | 23900 | 6,400 | 28500 | 20,000 |
| K 20x28x25 | 0.787 | 20 | 1.102 | 28 | 0.984 | 25 | 0.071 | 32 | 6,900 | 30500 | 8,800 | 39000 | 20,000 |
| K 20x30x30 | 0.787 | 20 | 1.181 | 30 | 1.181 | 30 | 0.108 | 49 | 8,000 | 35500 | 9,300 | 41500 | 20,000 |
| C131608 | 0.813 | 20.638 | 1.000 | 25.400 | 0.500 | 12.700 | 0.023 | 10.2 | 2,800 | 12500 | 3,950 | 17600 | 21,000 |
| C131714 | 0.813 | 20.638 | 1.063 | 26.988 | 0.875 | 22.230 | 0.054 | 24.7 | 5,100 | 22600 | 7,000 | 31000 | 21,000 |
| K 21x25x13 | 0.827 | 21 | 0.984 | 25 | 0.512 | 13 | 0.02 | 9 | 2,270 | 10100 | 3,400 | 15100 | 21,000 |
| K 21x25x17 | 0.827 | 21 | 0.984 | 25 | 0.669 | 17 | 0.022 | 10 | 3,000 | 13300 | 4,850 | 21500 | 21,000 |

# Needle Roller And Cage Assemblies
## UNIT CAGE SERIES

- Inch and metric
- Single and double row

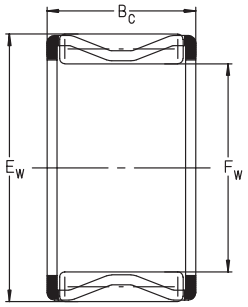



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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | HSG. BORE $E_w$ inch | HSG. BORE $E_w$ mm | WIDTH $B_c$ inch | WIDTH $B_c$ mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K 22x26x10 | 0.866 | 22 | 1.024 | 26 | 0.394 | 10 | 0.017 | 7.5 | 2,050 | 9100 | 3,000 | 13400 | 20,000 |
| K 22x26x13 | 0.866 | 22 | 1.024 | 26 | 0.512 | 13 | 0.021 | 9.5 | 2,340 | 10400 | 3,600 | 15900 | 20,000 |
| K 22x26x17 | 0.866 | 22 | 1.024 | 26 | 0.669 | 17 | 0.026 | 12 | 3,100 | 13700 | 5,100 | 22700 | 20,000 |
| K 22x28x17 | 0.866 | 22 | 1.102 | 28 | 0.669 | 17 | 0.04 | 18 | 4,350 | 19400 | 6,100 | 27000 | 20,000 |
| K 22x29x16 | 0.866 | 22 | 1.142 | 29 | 0.630 | 16 | 0.035 | 16 | 4,500 | 20000 | 5,700 | 25500 | 19,000 |
| K 22x30x15 TN | 0.866 | 22 | 1.181 | 30 | 0.591 | 15 | 0.04 | 18 | 4,500 | 20100 | 5,300 | 23400 | 19,000 |
| K 22x32x24 | 0.866 | 22 | 1.260 | 32 | 0.945 | 24 | 0.095 | 43 | 7,600 | 34000 | 9,000 | 40000 | 18,000 |
| C141816 | 0.875 | 22.225 | 1.125 | 28.575 | 1.000 | 25.400 | 0.066 | 30.1 | 6,500 | 29000 | 9,800 | 43500 | 19,000 |
| K 23x35x16 TN | 0.906 | 23 | 1.378 | 35 | 0.630 | 16 | 0.064 | 29 | 5,500 | 24500 | 5,400 | 23900 | 17,000 |
| K 24x28x10 | 0.945 | 24 | 1.102 | 28 | 0.394 | 10 | 0.019 | 8.5 | 2,160 | 9600 | 3,350 | 14800 | 19,000 |
| K 24x28x13 | 0.945 | 24 | 1.102 | 28 | 0.512 | 13 | 0.022 | 10 | 2,470 | 11000 | 3,950 | 17600 | 19,000 |
| K 24x28x17 | 0.945 | 24 | 1.102 | 28 | 0.669 | 17 | 0.029 | 13 | 3,250 | 14500 | 5,600 | 25000 | 19,000 |
| K 24x29x13 | 0.945 | 24 | 1.142 | 29 | 0.512 | 13 | 0.031 | 14 | 3,050 | 13600 | 4,450 | 19700 | 18,000 |
| K 24x30x17 | 0.945 | 24 | 1.181 | 30 | 0.669 | 17 | 0.042 | 19 | 4,400 | 19500 | 6,200 | 27500 | 18,000 |
| K 24x30x31 ZW | 0.945 | 24 | 1.181 | 30 | 1.221 | 31 | 0.071 | 32 | 6,200 | 27500 | 9,800 | 43500 | 18,000 |
| K 25x29x10 | 0.984 | 25 | 1.142 | 29 | 0.394 | 10 | 0.019 | 8.5 | 2,230 | 9900 | 3,450 | 15400 | 18,000 |
| K 25x29x13 | 0.984 | 25 | 1.142 | 29 | 0.512 | 13 | 0.024 | 11 | 2,550 | 11300 | 4,150 | 18400 | 18,000 |
| K 25x29x17 | 0.984 | 25 | 1.142 | 29 | 0.669 | 17 | 0.031 | 14 | 3,350 | 14900 | 5,800 | 26000 | 18,000 |
| K 25x30x13 | 0.984 | 25 | 1.181 | 30 | 0.512 | 13 | 0.024 | 11 | 3,300 | 14600 | 4,900 | 21800 | 18,000 |
| K 25x30x17 | 0.984 | 25 | 1.181 | 30 | 0.669 | 17 | 0.035 | 16 | 4,200 | 18700 | 6,700 | 30000 | 18,000 |
| K 25x30x20 | 0.984 | 25 | 1.181 | 30 | 0.787 | 20 | 0.04 | 18 | 4,900 | 21700 | 8,200 | 36500 | 18,000 |
| K 25x30x26 ZW | 0.984 | 25 | 1.181 | 30 | 1.024 | 26 | 0.042 | 19 | 4,800 | 21400 | 8,000 | 35500 | 18,000 |
| K 25x31x17 | 0.984 | 25 | 1.221 | 31 | 0.669 | 17 | 0.042 | 19 | 4,400 | 19600 | 6,400 | 28500 | 18,000 |
| K 25x31x21 | 0.984 | 25 | 1.221 | 31 | 0.827 | 21 | 0.044 | 20 | 5,600 | 24700 | 8,500 | 38000 | 18,000 |
| K 25x32x16 | 0.984 | 25 | 1.260 | 32 | 0.630 | 16 | 0.046 | 21 | 4,700 | 21000 | 6,300 | 28000 | 17,000 |
| K 25x33x20 | 0.984 | 25 | 1.299 | 33 | 0.787 | 20 | 0.073 | 33 | 6,400 | 28500 | 8,500 | 38000 | 17,000 |
| K 25x33x24 | 0.984 | 25 | 1.299 | 33 | 0.945 | 24 | 0.086 | 39 | 7,600 | 34000 | 10,600 | 47000 | 17,000 |
| K 25x35x30 | 0.984 | 25 | 1.378 | 35 | 1.181 | 30 | 0.143 | 65 | 10,600 | 47000 | 13,900 | 62000 | 16,000 |
| C161908 | 1.000 | 25.400 | 1.188 | 30.162 | 0.500 | 12.700 | 0.027 | 12.4 | 3,050 | 13700 | 4,700 | 20900 | 18,000 |
| C162112 | 1.000 | 25.400 | 1.313 | 33.338 | 0.750 | 19.050 | 0.072 | 32.6 | 6,400 | 28500 | 8,500 | 38000 | 17,000 |
| C162116 | 1.000 | 25.400 | 1.313 | 33.338 | 1.000 | 25.400 | 0.096 | 43.5 | 8,200 | 36500 | 11,900 | 53000 | 17,000 |
| K 26x30x10 | 1.024 | 26 | 1.181 | 30 | 0.394 | 10 | 0.015 | 7 | 2,270 | 10100 | 3,600 | 16100 | 18,000 |
| K 26x30x13 | 1.024 | 26 | 1.181 | 30 | 0.512 | 13 | 0.024 | 11 | 2,600 | 11600 | 4,300 | 19200 | 18,000 |
| K 26x30x17 | 1.024 | 26 | 1.181 | 30 | 0.669 | 17 | 0.033 | 15 | 3,400 | 15200 | 6,200 | 27500 | 18,000 |
| K 26x30x22 ZW | 1.024 | 26 | 1.181 | 30 | 0.866 | 22 | 0.026 | 12 | 3,550 | 15700 | 6,400 | 28500 | 18,000 |
| K 28x33x13 | 1.102 | 28 | 1.299 | 33 | 0.512 | 13 | 0.029 | 13 | 3,450 | 15300 | 5,400 | 24200 | 16,000 |
| K 28x33x17 | 1.102 | 28 | 1.299 | 33 | 0.669 | 17 | 0.037 | 17 | 4,450 | 19700 | 7,500 | 33500 | 16,000 |
| K 28x33x27 TN | 1.102 | 28 | 1.299 | 33 | 1.063 | 27 | 0.042 | 19 | 5,200 | 23300 | 9,200 | 41000 | 16,000 |
| K 28x34x17 | 1.102 | 28 | 1.339 | 34 | 0.669 | 17 | 0.053 | 24 | 4,900 | 21800 | 7,500 | 33500 | 16,000 |
| K 28x35x16 | 1.102 | 28 | 1.378 | 35 | 0.630 | 16 | 0.053 | 24 | 4,850 | 21500 | 6,600 | 29500 | 16,000 |
| K 28x35x18 | 1.102 | 28 | 1.378 | 35 | 0.709 | 18 | 0.06 | 27 | 5,400 | 24000 | 7,600 | 34000 | 16,000 |
| K 28x35x27 | 1.102 | 28 | 1.378 | 35 | 1.063 | 27 | 0.09 | 41 | 7,900 | 35000 | 12,400 | 55000 | 16,000 |
| K 28x40x18 | 1.102 | 28 | 1.575 | 40 | 0.709 | 18 | 0.11 | 50 | 7,500 | 33500 | 8,300 | 37000 | 14,000 |
| K 28x40x25 | 1.102 | 28 | 1.575 | 40 | 0.984 | 25 | 0.154 | 70 | 10,200 | 45500 | 12,400 | 55000 | 14,000 |
| C182212 | 1.125 | 28.575 | 1.375 | 34.925 | 0.750 | 19.050 | 0.062 | 28.2 | 5,000 | 22200 | 7,400 | 33000 | 15,000 |
| C182416 | 1.125 | 28.575 | 1.500 | 38.100 | 1.000 | 25.400 | 0.131 | 59.3 | 9,700 | 43000 | 13,400 | 60000 | 15,000 |

# Needle Roller And Cage Assemblies
## UNIT CAGE SERIES

- Inch and metric
- Single and double row

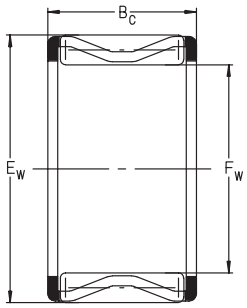



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | HSG. BORE $E_w$ inch | HSG. BORE $E_w$ mm | WIDTH $B_c$ inch | WIDTH $B_c$ mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C182420 | 1.125 | 28.575 | 1.500 | 38.100 | 1.250 | 31.750 | 0.163 | 74.1 | 11,700 | 52000 | 17,100 | 76000 | 15,000 |
| K 30x34x13 | 1.181 | 30 | 1.339 | 34 | 0.512 | 13 | 0.031 | 14 | 2,750 | 12300 | 4,900 | 21700 | 15,000 |
| K 30x35x13 | 1.181 | 30 | 1.378 | 35 | 0.512 | 13 | 0.031 | 14 | 3,500 | 15600 | 5,700 | 25500 | 15,000 |
| K 30x35x17 | 1.181 | 30 | 1.378 | 35 | 0.669 | 17 | 0.042 | 19 | 4,400 | 19600 | 7,600 | 34000 | 15,000 |
| K 30x35x26 ZW | 1.181 | 30 | 1.378 | 35 | 1.024 | 26 | 0.079 | 36 | 5,400 | 24000 | 9,900 | 44000 | 15,000 |
| K 30x35x27 | 1.181 | 30 | 1.378 | 35 | 1.063 | 27 | 0.066 | 30 | 6,900 | 30500 | 13,300 | 59000 | 15,000 |
| K 30x37x16 | 1.181 | 30 | 1.457 | 37 | 0.630 | 16 | 0.06 | 27 | 5,200 | 23100 | 7,500 | 33500 | 15,000 |
| K 30x37x18 | 1.181 | 30 | 1.457 | 37 | 0.709 | 18 | 0.066 | 30 | 5,800 | 26000 | 8,700 | 38500 | 15,000 |
| K 30x40x18 | 1.181 | 30 | 1.575 | 40 | 0.709 | 18 | 0.106 | 48 | 7,200 | 32000 | 9,000 | 40000 | 14,000 |
| K 30x40x30 | 1.181 | 30 | 1.575 | 40 | 1.181 | 30 | 0.161 | 73 | 11,000 | 49000 | 15,500 | 69000 | 15,000 |
| C202412 (F88312) | 1.250 | 31.750 | 1.500 | 38.100 | 0.750 | 19.050 | 0.068 | 31.1 | 5,800 | 26000 | 9,600 | 42500 | 15,000 |
| C202612 | 1.250 | 31.750 | 1.625 | 41.275 | 0.750 | 19.050 | 0.107 | 48.7 | 7,800 | 34500 | 10,500 | 46500 | 13,000 |
| C202616 | 1.250 | 31.750 | 1.625 | 41.275 | 1.000 | 25.400 | 0.143 | 64.9 | 10,100 | 45000 | 14,600 | 65000 | 13,000 |
| C202624 | 1.250 | 31.750 | 1.625 | 41.275 | 1.500 | 38.100 | 0.215 | 97.4 | 14,400 | 64000 | 22,700 | 101000 | 13,000 |
| C202812 | 1.250 | 31.750 | 1.750 | 44.450 | 0.750 | 19.050 | 0.149 | 67.8 | 10,200 | 45500 | 12,400 | 55000 | 13,000 |
| K 32x37x13 | 1.260 | 32 | 1.457 | 37 | 0.512 | 13 | 0.04 | 18 | 3,500 | 15500 | 5,700 | 25500 | 14,000 |
| K 32x37x17 | 1.260 | 32 | 1.457 | 37 | 0.669 | 17 | 0.042 | 19 | 4,450 | 19900 | 8,000 | 35500 | 14,000 |
| K 32x37x27 | 1.260 | 32 | 1.457 | 37 | 1.063 | 27 | 0.066 | 30 | 6,700 | 30000 | 13,500 | 60000 | 14,000 |
| K 32x37x28 TN | 1.260 | 32 | 1.457 | 37 | 1.102 | 28 | 0.046 | 21 | 5,300 | 23600 | 9,800 | 43500 | 14,000 |
| K 32x38x16 | 1.260 | 32 | 1.496 | 38 | 0.630 | 16 | 0.055 | 25 | 4,850 | 21500 | 7,800 | 34500 | 14,000 |
| K 32x38x20 | 1.260 | 32 | 1.496 | 38 | 0.787 | 20 | 0.066 | 30 | 6,000 | 26500 | 10,100 | 45000 | 14,000 |
| K 32x38x26 | 1.260 | 32 | 1.496 | 38 | 1.024 | 26 | 0.084 | 38 | 7,500 | 33500 | 13,700 | 61000 | 14,000 |
| K 32x39x16 | 1.260 | 32 | 1.535 | 39 | 0.630 | 16 | 0.082 | 37 | 5,400 | 23800 | 8,000 | 35500 | 14,000 |
| K 32x39x18 | 1.260 | 32 | 1.535 | 39 | 0.709 | 18 | 0.068 | 31 | 6,000 | 26500 | 9,200 | 41000 | 14,000 |
| K 32x40x25 | 1.260 | 32 | 1.575 | 40 | 0.984 | 25 | 0.108 | 49 | 8,400 | 37500 | 13,000 | 58000 | 14,000 |
| K 32x40x36 | 1.260 | 32 | 1.575 | 40 | 1.417 | 36 | 0.161 | 73 | 12,100 | 54000 | 20,700 | 92000 | 14,000 |
| K 32x40x42 ZW TN | 1.260 | 32 | 1.575 | 40 | 1.654 | 42 | 0.17 | 77 | 11,200 | 50000 | 18,900 | 84000 | 14,000 |
| K 32x46x32 | 1.260 | 32 | 1.811 | 46 | 1.260 | 32 | 0.262 | 119 | 14,800 | 66000 | 18,700 | 83000 | 13,000 |
| C222820 | 1.375 | 34.925 | 1.750 | 44.450 | 1.250 | 31.750 | 0.195 | 88.2 | 12,600 | 56000 | 19,800 | 88000 | 12,000 |
| K 35x40x13 | 1.378 | 35 | 1.575 | 40 | 0.512 | 13 | 0.042 | 19 | 3,650 | 16200 | 6,300 | 28000 | 13,000 |
| K 35x40x17 | 1.378 | 35 | 1.575 | 40 | 0.669 | 17 | 0.046 | 21 | 4,700 | 20800 | 8,700 | 38500 | 13,000 |
| K 35x40x25 | 1.378 | 35 | 1.575 | 40 | 0.984 | 25 | 0.068 | 31 | 6,600 | 29500 | 13,500 | 60000 | 13,000 |
| K 35x40x27 TN | 1.378 | 35 | 1.575 | 40 | 1.063 | 27 | 0.086 | 39 | 5,600 | 25000 | 10,900 | 48500 | 13,000 |
| K 35x40x30 ZW | 1.378 | 35 | 1.575 | 40 | 1.181 | 30 | 0.106 | 48 | 5,700 | 25500 | 11,200 | 50000 | 13,000 |
| K 35x40x32 ZW | 1.378 | 35 | 1.575 | 40 | 1.260 | 32 | 0.11 | 50 | 7,200 | 32000 | 14,800 | 66000 | 13,000 |
| K 35x42x16 | 1.378 | 35 | 1.654 | 42 | 0.630 | 16 | 0.075 | 34 | 5,500 | 24400 | 8,400 | 37500 | 13,000 |
| K 35x42x18 | 1.378 | 35 | 1.654 | 42 | 0.709 | 18 | 0.075 | 34 | 6,200 | 27500 | 9,700 | 43000 | 13,000 |
| K 35x42x20 | 1.378 | 35 | 1.654 | 42 | 0.787 | 20 | 0.082 | 37 | 6,700 | 30000 | 11,000 | 49000 | 13,000 |
| K 35x42x30 | 1.378 | 35 | 1.654 | 42 | 1.181 | 30 | 0.148 | 67 | 8,800 | 39000 | 15,300 | 68000 | 13,000 |
| K 35x43x18 | 1.378 | 35 | 1.693 | 43 | 0.709 | 18 | 0.084 | 38 | 6,400 | 28500 | 9,400 | 42000 | 13,000 |
| K 35x45x20 | 1.378 | 35 | 1.772 | 45 | 0.787 | 20 | 0.123 | 56 | 8,300 | 37000 | 11,200 | 50000 | 12,000 |
| K 35x45x30 | 1.378 | 35 | 1.772 | 45 | 1.181 | 30 | 0.176 | 80 | 11,900 | 53000 | 17,800 | 79000 | 12,000 |
| K 35x45x49 | 1.378 | 35 | 1.772 | 45 | 1.929 | 49 | 0.304 | 138 | 18,400 | 82000 | 31,500 | 139000 | 12,000 |
| K 36x42x16 | 1.417 | 36 | 1.654 | 42 | 0.630 | 16 | 0.064 | 29 | 5,500 | 24600 | 9,600 | 42500 | 13,000 |
| K 37x42x17 | 1.457 | 37 | 1.654 | 42 | 0.669 | 17 | 0.049 | 22 | 5,000 | 22400 | 9,700 | 43000 | 12,000 |
| K 37x42x27 | 1.457 | 37 | 1.654 | 42 | 1.063 | 27 | 0.09 | 41 | 7,200 | 32000 | 15,300 | 68000 | 12,000 |

# Needle Roller And Cage Assemblies
## UNIT CAGE SERIES

- Inch and metric
- Single and double row

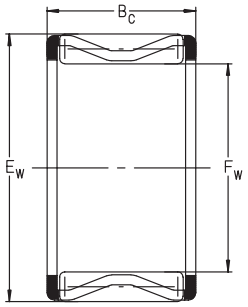



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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | HSG. BORE $E_w$ inch | HSG. BORE $E_w$ mm | WIDTH $B_c$ inch | WIDTH $B_c$ mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K 37x45x26 | 1.457 | 37 | 1.772 | 45 | 1.024 | 26 | 0.135 | 61 | 9,900 | 44000 | 16,600 | 74000 | 12,000 |
| K 38x43x17 | 1.496 | 38 | 1.693 | 43 | 0.669 | 17 | 0.064 | 29 | 4,600 | 20500 | 8,700 | 38500 | 12,000 |
| K 38x43x27 | 1.496 | 38 | 1.693 | 43 | 1.063 | 27 | 0.095 | 43 | 7,100 | 31500 | 15,300 | 68000 | 12,000 |
| K 38x46x20 | 1.496 | 38 | 1.811 | 46 | 0.787 | 20 | 0.104 | 47 | 8,000 | 35500 | 12,800 | 57000 | 12,000 |
| K 38x46x32 | 1.496 | 38 | 1.811 | 46 | 1.260 | 32 | 0.168 | 76 | 12,400 | 55000 | 22,300 | 99000 | 12,000 |
| C243016 | 1.500 | 38.100 | 1.875 | 47.625 | 1.000 | 25.400 | 0.168 | 76.2 | 10,800 | 48000 | 16,700 | 74000 | 11,000 |
| C243020 | 1.500 | 38.100 | 1.875 | 47.625 | 1.250 | 31.750 | 0.210 | 95.3 | 13,000 | 58000 | 21,300 | 95000 | 11,000 |
| C243024 | 1.500 | 38.100 | 1.875 | 47.625 | 1.500 | 38.100 | 0.252 | 114.3 | 15,300 | 68000 | 26,000 | 116000 | 11,000 |
| K 39x44x24 | 1.535 | 39 | 1.732 | 44 | 0.945 | 24 | 0.066 | 30 | 6,400 | 28500 | 13,300 | 59000 | 12,000 |
| K 39x44x26 ZW | 1.535 | 39 | 1.732 | 44 | 1.024 | 26 | 0.099 | 45 | 6,200 | 27500 | 12,600 | 56000 | 12,000 |
| K 40x44x13 | 1.575 | 40 | 1.732 | 44 | 0.512 | 13 | 0.04 | 18 | 3,150 | 14000 | 6,400 | 28500 | 12,000 |
| K 40x45x13 | 1.575 | 40 | 1.772 | 45 | 0.512 | 13 | 0.049 | 22 | 3,950 | 17600 | 7,300 | 32500 | 12,000 |
| K 40x45x17 | 1.575 | 40 | 1.772 | 45 | 0.669 | 17 | 0.068 | 31 | 4,800 | 21400 | 9,300 | 41500 | 12,000 |
| K 40x45x21 | 1.575 | 40 | 1.772 | 45 | 0.827 | 21 | 0.073 | 33 | 5,600 | 24900 | 11,200 | 50000 | 12,000 |
| K 40x45x27 | 1.575 | 40 | 1.772 | 45 | 1.063 | 27 | 0.101 | 46 | 7,400 | 33000 | 16,400 | 73000 | 12,000 |
| K 40x45x30 ZW | 1.575 | 40 | 1.772 | 45 | 1.181 | 30 | 0.128 | 58 | 6,000 | 26500 | 12,100 | 54000 | 12,000 |
| K 40x46x17 | 1.575 | 40 | 1.811 | 46 | 0.669 | 17 | 0.062 | 28 | 5,600 | 25000 | 10,100 | 45000 | 11,000 |
| K 40x47x18 | 1.575 | 40 | 1.850 | 47 | 0.709 | 18 | 0.086 | 39 | 6,600 | 29500 | 11,200 | 50000 | 11,000 |
| K 40x47x20 | 1.575 | 40 | 1.850 | 47 | 0.787 | 20 | 0.093 | 42 | 7,300 | 32500 | 12,800 | 57000 | 11,000 |
| K 40x48x20 | 1.575 | 40 | 1.890 | 48 | 0.787 | 20 | 0.108 | 49 | 8,100 | 36000 | 13,300 | 59000 | 11,000 |
| K 42x47x13 | 1.654 | 42 | 1.850 | 47 | 0.512 | 13 | 0.04 | 18 | 4,000 | 17800 | 7,500 | 33500 | 11,000 |
| K 42x47x17 | 1.654 | 42 | 1.850 | 47 | 0.669 | 17 | 0.071 | 32 | 4,900 | 21700 | 9,700 | 43000 | 11,000 |
| K 42x47x25 TN | 1.654 | 42 | 1.850 | 47 | 0.984 | 25 | 0.057 | 26 | 6,200 | 27500 | 13,000 | 58000 | 11,000 |
| K 42x47x27 | 1.654 | 42 | 1.850 | 47 | 1.063 | 27 | 0.108 | 49 | 7,500 | 33500 | 16,900 | 75000 | 11,000 |
| K 42x47x30 ZW | 1.654 | 42 | 1.850 | 47 | 1.181 | 30 | 0.119 | 54 | 7,500 | 33500 | 17,100 | 76000 | 11,000 |
| K 42x50x18 | 1.654 | 42 | 1.969 | 50 | 0.709 | 18 | 0.117 | 53 | 7,100 | 31500 | 11,200 | 50000 | 11,000 |
| K 42x50x20 | 1.654 | 42 | 1.969 | 50 | 0.787 | 20 | 0.117 | 53 | 7,900 | 35000 | 12,800 | 57000 | 11,000 |
| K 43x48x17 | 1.693 | 43 | 1.890 | 48 | 0.669 | 17 | 0.066 | 30 | 4,850 | 21600 | 9,700 | 43000 | 11,000 |
| K 43x48x27 | 1.693 | 43 | 1.890 | 48 | 1.063 | 27 | 0.11 | 50 | 7,500 | 33500 | 16,900 | 75000 | 11,000 |
| K 43x50x18 | 1.693 | 43 | 1.969 | 50 | 0.709 | 18 | 0.09 | 41 | 7,000 | 31000 | 12,100 | 54000 | 11,000 |
| C283412 | 1.750 | 44.450 | 2.125 | 53.975 | 0.750 | 19.050 | 0.145 | 65.6 | 9,100 | 40500 | 13,900 | 62000 | 10,000 |
| C283416 | 1.750 | 44.450 | 2.125 | 53.975 | 1.000 | 25.400 | 0.193 | 87.5 | 11,900 | 53000 | 19,800 | 88000 | 10,000 |
| C283424 | 1.750 | 44.450 | 2.125 | 53.975 | 1.500 | 38.100 | 0.289 | 131.3 | 16,900 | 75000 | 31,000 | 138000 | 10,000 |
| K 45x49x19 | 1.772 | 45 | 1.929 | 49 | 0.748 | 19 | 0.06 | 27 | 4,050 | 18000 | 9,100 | 40500 | 10,000 |
| K 45x50x17 | 1.772 | 45 | 1.969 | 50 | 0.669 | 17 | 0.075 | 34 | 5,100 | 22500 | 10,300 | 46000 | 10,000 |
| K 45x50x27 | 1.772 | 45 | 1.969 | 50 | 1.063 | 27 | 0.112 | 51 | 7,800 | 34500 | 18,000 | 80000 | 10,000 |
| K 45x50x32 TN | 1.772 | 45 | 1.969 | 50 | 1.260 | 32 | 0.099 | 45 | 8,700 | 38500 | 20,500 | 91000 | 10,000 |
| K 45x51x36 ZW | 1.772 | 45 | 2.008 | 51 | 1.417 | 36 | 0.187 | 85 | 10,100 | 45000 | 22,300 | 99000 | 10,000 |
| K 45x52x18 | 1.772 | 45 | 2.047 | 52 | 0.709 | 18 | 0.093 | 42 | 7,100 | 31500 | 12,800 | 57000 | 10,000 |
| K 45x52x21 TN | 1.772 | 45 | 2.047 | 52 | 0.827 | 21 | 0.075 | 34 | 6,700 | 30000 | 11,700 | 52000 | 10,000 |
| K 45x53x20 | 1.772 | 45 | 2.087 | 53 | 0.787 | 20 | 0.121 | 55 | 8,800 | 39000 | 15,100 | 67000 | 10,000 |
| K 45x53x21 | 1.772 | 45 | 2.087 | 53 | 0.827 | 21 | 0.132 | 60 | 8,700 | 38500 | 15,100 | 67000 | 10,000 |
| K 45x53x22 | 1.772 | 45 | 2.087 | 53 | 0.866 | 22 | 0.132 | 60 | 9,600 | 42500 | 17,100 | 76000 | 10,000 |
| K 45x53x28 | 1.772 | 45 | 2.087 | 53 | 1.102 | 28 | 0.179 | 81 | 11,700 | 52000 | 22,000 | 98000 | 10,000 |
| K 45x59x18 TN | 1.772 | 45 | 2.323 | 59 | 0.709 | 18 | 0.159 | 72 | 9,900 | 44000 | 12,100 | 54000 | 9,500 |
| K 45x59x32 | 1.772 | 45 | 2.323 | 59 | 1.260 | 32 | 0.326 | 148 | 16,400 | 73000 | 22,900 | 102000 | 9,500 |

# Needle Roller And Cage Assemblies
## UNIT CAGE SERIES

- Inch and metric
- Single and double row

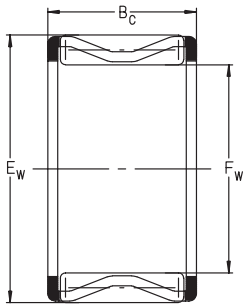



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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | HSG. BORE $E_w$ inch | HSG. BORE $E_w$ mm | WIDTH $B_c$ inch | WIDTH $B_c$ mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K 45x59x36 | 1.772 | 45 | 2.323 | 59 | 1.417 | 36 | 0.351 | 159 | 17,100 | 76000 | 24,500 | 109000 | 9,500 |
| K 47x52x17 | 1.850 | 47 | 2.047 | 52 | 0.669 | 17 | 0.077 | 35 | 5,200 | 23300 | 11,000 | 49000 | 10,000 |
| K 47x52x27 | 1.850 | 47 | 2.047 | 52 | 1.063 | 27 | 0.112 | 51 | 7,900 | 35000 | 18,700 | 83000 | 10,000 |
| K 47x53x25 | 1.850 | 47 | 2.087 | 53 | 0.984 | 25 | 0.112 | 51 | 8,700 | 38500 | 18,400 | 82000 | 10,000 |
| K 47x55x28 | 1.850 | 47 | 2.165 | 55 | 1.102 | 28 | 0.176 | 80 | 11,900 | 53000 | 22,700 | 101000 | 9,500 |
| K 48x54x19 | 1.890 | 48 | 2.126 | 54 | 0.748 | 19 | 0.101 | 46 | 6,900 | 30500 | 13,700 | 61000 | 9,500 |
| K 50x55x13.5 | 1.969 | 50 | 2.165 | 55 | 0.532 | 13.5 | 0.066 | 30 | 4,100 | 18200 | 8,200 | 36500 | 9,500 |
| K 50x55x17 | 1.969 | 50 | 2.165 | 55 | 0.669 | 17 | 0.077 | 35 | 4,950 | 22100 | 10,600 | 47000 | 9,500 |
| K 50x55x20 | 1.969 | 50 | 2.165 | 55 | 0.787 | 20 | 0.095 | 43 | 6,000 | 26500 | 13,500 | 60000 | 9,500 |
| K 50x55x30 | 1.969 | 50 | 2.165 | 55 | 1.181 | 30 | 0.143 | 65 | 8,800 | 39000 | 21,800 | 97000 | 9,500 |
| K 50x57x18 | 1.969 | 50 | 2.244 | 57 | 0.709 | 18 | 0.104 | 47 | 7,500 | 33500 | 14,200 | 63000 | 9,000 |
| K 50x58x20 | 1.969 | 50 | 2.284 | 58 | 0.787 | 20 | 0.165 | 75 | 8,000 | 35500 | 13,900 | 62000 | 9,000 |
| K 50x58x25 | 1.969 | 50 | 2.284 | 58 | 0.984 | 25 | 0.198 | 90 | 9,900 | 44000 | 18,200 | 81000 | 9,000 |
| K 52x57x12 | 2.047 | 52 | 2.244 | 57 | 0.472 | 12 | 0.053 | 24 | 4,050 | 18000 | 8,200 | 36500 | 9,000 |
| K 55x60x20 | 2.165 | 55 | 2.362 | 60 | 0.787 | 20 | 0.088 | 40 | 6,400 | 28500 | 14,800 | 66000 | 8,500 |
| K 55x60x27 | 2.165 | 55 | 2.362 | 60 | 1.063 | 27 | 0.132 | 60 | 8,500 | 38000 | 21,800 | 97000 | 8,500 |
| K 55x60x30 | 2.165 | 55 | 2.362 | 60 | 1.181 | 30 | 0.157 | 71 | 9,200 | 41000 | 24,300 | 108000 | 8,500 |
| K 55x60x40 ZW | 2.165 | 55 | 2.362 | 60 | 1.575 | 40 | 0.218 | 99 | 10,900 | 48500 | 30,000 | 133000 | 8,500 |
| K 55x62x18 | 2.165 | 55 | 2.441 | 62 | 0.709 | 18 | 0.115 | 52 | 8,000 | 35500 | 15,700 | 70000 | 8,500 |
| K 55x63x15 | 2.165 | 55 | 2.480 | 63 | 0.591 | 15 | 0.117 | 53 | 5,600 | 25000 | 9,200 | 41000 | 8,500 |
| K 55x63x20 | 2.165 | 55 | 2.480 | 63 | 0.787 | 20 | 0.148 | 67 | 9,000 | 40000 | 16,600 | 74000 | 8,500 |
| K 55x63x25 | 2.165 | 55 | 2.480 | 63 | 0.984 | 25 | 0.176 | 80 | 11,200 | 50000 | 22,500 | 100000 | 8,500 |
| K 55x63x32 | 2.165 | 55 | 2.480 | 63 | 1.260 | 32 | 0.225 | 102 | 13,900 | 62000 | 29,000 | 130000 | 8,500 |
| K 56x61x20 | 2.205 | 56 | 2.402 | 61 | 0.787 | 20 | 0.099 | 45 | 6,200 | 27500 | 14,600 | 65000 | 8,500 |
| C364216 | 2.250 | 57.150 | 2.625 | 66.675 | 1.000 | 25.400 | 0.243 | 110.1 | 13,500 | 60000 | 25,000 | 112000 | 7,900 |
| C364220 | 2.250 | 57.150 | 2.625 | 66.675 | 1.250 | 31.750 | 0.304 | 137.6 | 14,400 | 64000 | 27,500 | 122000 | 7,900 |
| C364224 | 2.250 | 57.150 | 2.625 | 66.675 | 1.500 | 38.100 | 0.364 | 165.2 | 17,500 | 78000 | 35,500 | 157000 | 7,900 |
| K 58x63x17 | 2.284 | 58 | 2.480 | 63 | 0.669 | 17 | 0.095 | 43 | 6,100 | 27000 | 14,400 | 64000 | 8,000 |
| K 58x64x19 | 2.284 | 58 | 2.520 | 64 | 0.748 | 19 | 0.101 | 46 | 7,900 | 35000 | 17,500 | 78000 | 8,000 |
| K 58x65x18 | 2.284 | 58 | 2.559 | 65 | 0.709 | 18 | 0.115 | 52 | 7,900 | 35000 | 15,700 | 70000 | 8,000 |
| K 58x65x36 ZW | 2.284 | 58 | 2.559 | 65 | 1.417 | 36 | 0.28 | 127 | 11,000 | 49000 | 24,100 | 107000 | 8,000 |
| K 60x65x20 | 2.362 | 60 | 2.559 | 65 | 0.787 | 20 | 0.115 | 52 | 6,600 | 29500 | 16,200 | 72000 | 8,000 |
| K 60x65x30 | 2.362 | 60 | 2.559 | 65 | 1.181 | 30 | 0.17 | 77 | 9,600 | 42500 | 26,000 | 116000 | 8,000 |
| K 60x66x33 ZW | 2.362 | 60 | 2.598 | 66 | 1.299 | 33 | 0.229 | 104 | 10,300 | 46000 | 25,000 | 112000 | 8,000 |
| K 60x66x40 ZW | 2.362 | 60 | 2.598 | 66 | 1.575 | 40 | 0.256 | 116 | 13,000 | 58000 | 34,000 | 151000 | 8,000 |
| K 60x68x20 | 2.362 | 60 | 2.677 | 68 | 0.787 | 20 | 0.157 | 71 | 9,800 | 43500 | 19,100 | 85000 | 7,500 |
| K 60x68x23 | 2.362 | 60 | 2.677 | 68 | 0.906 | 23 | 0.207 | 94 | 11,100 | 49500 | 22,700 | 101000 | 7,500 |
| K 60x68x25 | 2.362 | 60 | 2.677 | 68 | 0.984 | 25 | 0.196 | 89 | 11,900 | 53000 | 25,000 | 111000 | 7,500 |
| K 60x68x27 | 2.362 | 60 | 2.677 | 68 | 1.063 | 27 | 0.251 | 114 | 11,100 | 49500 | 22,500 | 100000 | 7,500 |
| K 60x68x30 ZW | 2.362 | 60 | 2.677 | 68 | 1.181 | 30 | 0.284 | 129 | 10,000 | 44500 | 19,800 | 88000 | 7,500 |
| K 60x68x34 ZW | 2.362 | 60 | 2.677 | 68 | 1.339 | 34 | 0.309 | 140 | 10,800 | 48000 | 21,600 | 96000 | 7,500 |
| K 60x75x42 | 2.362 | 60 | 2.953 | 75 | 1.654 | 42 | 0.529 | 240 | 26,500 | 118000 | 44,500 | 197000 | 7,500 |
| K 62x70x40 ZW | 2.441 | 62 | 2.756 | 70 | 1.575 | 40 | 0.384 | 174 | 14,800 | 66000 | 33,000 | 146000 | 7,500 |
| K 63x70x21 | 2.480 | 63 | 2.756 | 70 | 0.827 | 21 | 0.146 | 66 | 10,200 | 45500 | 22,700 | 101000 | 7,500 |
| C404616 | 2.500 | 63.500 | 2.875 | 73.025 | 1.000 | 25.400 | 0.268 | 121.4 | 14,000 | 62000 | 27,000 | 121000 | 7,200 |
| C404620 | 2.500 | 63.500 | 2.875 | 73.025 | 1.250 | 31.750 | 0.335 | 151.8 | 16,600 | 74000 | 34,000 | 151000 | 7,200 |

# Needle Roller And Cage Assemblies
## UNIT CAGE SERIES

- Inch and metric
- Single and double row

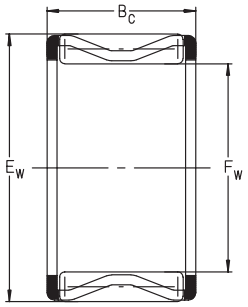



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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | HSG. BORE $E_w$ inch | HSG. BORE $E_w$ mm | WIDTH $B_c$ inch | WIDTH $B_c$ mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| C404624 | 2.500 | 63.500 | 2.875 | 73.025 | 1.500 | 38.100 | 0.402 | 182.1 | 19,600 | 87000 | 42,000 | 186000 | 7,200 |
| K 64x70x16 | 2.520 | 64 | 2.756 | 70 | 0.630 | 16 | 0.117 | 53 | 6,300 | 28000 | 13,500 | 60000 | 7,500 |
| K 65x70x20 | 2.559 | 65 | 2.756 | 70 | 0.787 | 20 | 0.123 | 56 | 6,900 | 30500 | 17,300 | 77000 | 7,500 |
| K 65x70x30 | 2.559 | 65 | 2.756 | 70 | 1.181 | 30 | 0.183 | 83 | 9,900 | 44000 | 28,000 | 124000 | 7,500 |
| K 65x73x23 | 2.559 | 65 | 2.874 | 73 | 0.906 | 23 | 0.238 | 108 | 10,300 | 46000 | 21,100 | 94000 | 7,000 |
| K 65x73x30 | 2.559 | 65 | 2.874 | 73 | 1.181 | 30 | 0.311 | 141 | 12,800 | 57000 | 27,500 | 123000 | 7,000 |
| K 68x74x20 | 2.677 | 68 | 2.913 | 74 | 0.787 | 20 | 0.157 | 71 | 8,000 | 35500 | 18,900 | 84000 | 7,000 |
| K 68x74x30 | 2.677 | 68 | 2.913 | 74 | 1.181 | 30 | 0.221 | 100 | 10,500 | 46500 | 26,500 | 118000 | 7,000 |
| K 68x74x35 ZW | 2.677 | 68 | 2.913 | 74 | 1.378 | 35 | 0.265 | 120 | 10,900 | 48500 | 28,000 | 125000 | 7,000 |
| K 68x75x32 ZW | 2.677 | 68 | 2.953 | 75 | 1.260 | 32 | 0.291 | 132 | 12,100 | 54000 | 29,000 | 128000 | 7,000 |
| K 70x76x20 | 2.756 | 70 | 2.992 | 76 | 0.787 | 20 | 0.157 | 71 | 8,100 | 36000 | 19,300 | 86000 | 6,500 |
| K 70x76x30 | 2.756 | 70 | 2.992 | 76 | 1.181 | 30 | 0.243 | 110 | 11,700 | 52000 | 31,500 | 139000 | 6,500 |
| K 70x78x25 | 2.756 | 70 | 3.071 | 78 | 0.984 | 25 | 0.273 | 124 | 11,700 | 52000 | 25,000 | 112000 | 6,500 |
| K 70x78x30 | 2.756 | 70 | 3.071 | 78 | 1.181 | 30 | 0.326 | 148 | 13,500 | 60000 | 30,500 | 135000 | 6,500 |
| K 70x78x46 ZW | 2.756 | 70 | 3.071 | 78 | 1.811 | 46 | 0.496 | 225 | 17,500 | 78000 | 42,500 | 189000 | 6,500 |
| K 70x80x30 | 2.756 | 70 | 3.150 | 80 | 1.181 | 30 | 0.331 | 150 | 16,400 | 73000 | 33,500 | 148000 | 6,500 |
| K 72x80x20 | 2.835 | 72 | 3.150 | 80 | 0.787 | 20 | 0.216 | 98 | 9,300 | 41500 | 19,100 | 85000 | 6,500 |
| K 73x79x20 | 2.874 | 73 | 3.110 | 79 | 0.787 | 20 | 0.165 | 75 | 8,300 | 37000 | 20,200 | 90000 | 6,500 |
| K 75x81x20 | 2.953 | 75 | 3.189 | 81 | 0.787 | 20 | 0.174 | 79 | 8,400 | 37500 | 21,100 | 94000 | 6,500 |
| K 75x81x30 | 2.953 | 75 | 3.189 | 81 | 1.181 | 30 | 0.251 | 114 | 11,700 | 52000 | 32,000 | 143000 | 6,500 |
| K 75x83x23 | 2.953 | 75 | 3.268 | 83 | 0.906 | 23 | 0.273 | 124 | 11,200 | 50000 | 24,500 | 109000 | 6,000 |
| K 75x83x30 | 2.953 | 75 | 3.268 | 83 | 1.181 | 30 | 0.324 | 147 | 13,900 | 62000 | 32,000 | 143000 | 6,000 |
| K 75x83x35 ZW | 2.953 | 75 | 3.268 | 83 | 1.378 | 35 | 0.401 | 182 | 14,200 | 63000 | 33,000 | 147000 | 6,000 |
| K 75x83x40 ZW | 2.953 | 75 | 3.268 | 83 | 1.575 | 40 | 0.465 | 211 | 16,400 | 73000 | 40,000 | 177000 | 6,000 |
| C485416 | 3.000 | 76.200 | 3.375 | 85.725 | 1.000 | 25.400 | 0.318 | 144.0 | 14,800 | 66000 | 31,500 | 140000 | 6,100 |
| C485424 | 3.000 | 76.200 | 3.375 | 85.726 | 1.500 | 38.100 | 0.476 | 216.0 | 21,100 | 94000 | 49,000 | 219000 | 6,100 |
| K 80x86x20 | 3.150 | 80 | 3.386 | 86 | 0.787 | 20 | 0.132 | 60 | 8,700 | 38500 | 22,000 | 98000 | 6,000 |
| K 80x86x30 | 3.150 | 80 | 3.386 | 86 | 1.181 | 30 | 0.174 | 79 | 12,600 | 56000 | 35,500 | 159000 | 6,000 |
| K 80x88x30 | 3.150 | 80 | 3.465 | 88 | 1.181 | 30 | 0.304 | 138 | 16,200 | 72000 | 40,000 | 179000 | 6,000 |
| K 80x88x40 ZW | 3.150 | 80 | 3.465 | 88 | 1.575 | 40 | 0.501 | 227 | 17,100 | 76000 | 43,000 | 192000 | 6,000 |
| K 80x88x46 ZW | 3.150 | 80 | 3.465 | 88 | 1.811 | 46 | 0.573 | 260 | 19,800 | 88000 | 52,000 | 231000 | 6,000 |
| K 85x92x20 | 3.347 | 85 | 3.622 | 92 | 0.787 | 20 | 0.225 | 102 | 10,000 | 44500 | 24,300 | 108000 | 5,500 |
| K 90x97x20 | 3.543 | 90 | 3.819 | 97 | 0.787 | 20 | 0.24 | 109 | 10,100 | 45000 | 25,500 | 113000 | 5,000 |
| K 90x98x27 | 3.543 | 90 | 3.858 | 98 | 1.063 | 27 | 0.331 | 150 | 13,700 | 61000 | 33,500 | 150000 | 5,000 |
| K 90x98x30 | 3.543 | 90 | 3.858 | 98 | 1.181 | 30 | 0.379 | 172 | 15,300 | 68000 | 38,500 | 172000 | 5,000 |
| K 95x103x30 | 3.740 | 95 | 4.055 | 103 | 1.181 | 30 | 0.364 | 165 | 15,500 | 69000 | 40,500 | 180000 | 4,900 |
| K 95x103x40 ZW | 3.740 | 95 | 4.055 | 103 | 1.575 | 40 | 0.587 | 266 | 18,700 | 83000 | 51,000 | 228000 | 4,900 |
| K 100x107x21 | 3.937 | 100 | 4.213 | 107 | 0.827 | 21 | 0.265 | 120 | 10,800 | 48000 | 28,500 | 127000 | 4,700 |
| K 100x108x27 | 3.937 | 100 | 4.252 | 108 | 1.063 | 27 | 0.408 | 185 | 12,800 | 57000 | 32,000 | 143000 | 4,700 |
| K 100x108x30 | 3.937 | 100 | 4.252 | 108 | 1.181 | 30 | 0.397 | 180 | 16,000 | 71000 | 42,500 | 188000 | 4,700 |
| C647224 | 4.000 | 101.600 | 4.500 | 114.300 | 1.500 | 38.100 | 0.847 | 384.0 | 27,500 | 122000 | 62,000 | 275000 | 4,500 |
| K 105x112x21 | 4.134 | 105 | 4.409 | 112 | 0.827 | 21 | 0.284 | 129 | 10,700 | 47500 | 28,500 | 127000 | 4,500 |
| K 105x113x30 | 4.134 | 105 | 4.449 | 113 | 1.181 | 30 | 0.476 | 216 | 16,200 | 72000 | 44,500 | 197000 | 4,500 |
| K 110x117x24 | 4.331 | 110 | 4.606 | 117 | 0.945 | 24 | 0.379 | 172 | 12,600 | 56000 | 35,500 | 158000 | 4,300 |
| K 110x118x30 | 4.331 | 110 | 4.646 | 118 | 1.181 | 30 | 0.478 | 217 | 17,500 | 78000 | 49,000 | 219000 | 4,300 |
| K 115x123x27 | 4.528 | 115 | 4.843 | 123 | 1.063 | 27 | 0.441 | 200 | 14,200 | 63000 | 38,000 | 170000 | 4,100 |

# Needle Roller And Cage Assemblies
## UNIT CAGE SERIES

- Inch and metric
- Single and double row

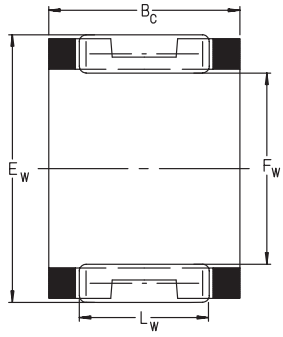



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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | HSG. BORE $E_w$ inch | HSG. BORE $E_w$ mm | WIDTH $B_c$ inch | WIDTH $B_c$ mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K 120x127x24 | 4.724 | 120 | 5.000 | 127 | 0.945 | 24 | 0.364 | 165 | 13,300 | 59000 | 39,000 | 174000 | 4,000 |
| K 120x127x34 | 4.724 | 120 | 5.000 | 127 | 1.339 | 34 | 0.49 | 222 | 18,200 | 81000 | 58,000 | 260000 | 4,000 |
| K 125x133x35 | 4.921 | 125 | 5.236 | 133 | 1.378 | 35 | 0.606 | 275 | 19,300 | 86000 | 58,000 | 260000 | 3,800 |
| K 130x137x24 | 5.118 | 130 | 5.394 | 137 | 0.945 | 24 | 0.375 | 170 | 13,700 | 61000 | 42,000 | 186000 | 3,700 |
| K 135x143x35 | 5.315 | 135 | 5.630 | 143 | 1.378 | 35 | 0.662 | 300 | 20,500 | 91000 | 65,000 | 290000 | 3,500 |
| K 145x153x26 | 5.709 | 145 | 6.024 | 153 | 1.024 | 26 | 0.578 | 262 | 16,600 | 74000 | 51,000 | 225000 | 3,300 |
| K 145x153x36 | 5.709 | 145 | 6.024 | 153 | 1.417 | 36 | 0.662 | 300 | 22,000 | 98000 | 73,000 | 325000 | 3,300 |
| K 150x160x46 | 5.906 | 150 | 6.299 | 160 | 1.811 | 46 | 1.257 | 570 | 33,000 | 147000 | 106,000 | 470000 | 3,200 |
| K 155x163x26 | 6.102 | 155 | 6.417 | 163 | 1.024 | 26 | 0.584 | 265 | 16,900 | 75000 | 53,000 | 236000 | 3,100 |
| K 155x163x36 | 6.102 | 155 | 6.417 | 163 | 1.417 | 36 | 0.785 | 356 | 22,500 | 100000 | 76,000 | 340000 | 3,100 |
| K 160x170x46 | 6.299 | 160 | 6.693 | 170 | 1.811 | 46 | 1.213 | 550 | 34,000 | 152000 | 115,000 | 510000 | 3,000 |
| K 165x173x26 | 6.496 | 165 | 6.811 | 173 | 1.024 | 26 | 0.706 | 320 | 18,200 | 81000 | 60,000 | 265000 | 2,900 |
| K 170x180x46 | 6.693 | 170 | 7.087 | 180 | 1.811 | 46 | 1.323 | 600 | 35,500 | 158000 | 121,000 | 540000 | 2,800 |
| K 175x183x32 | 6.890 | 175 | 7.205 | 183 | 1.260 | 32 | 0.882 | 400 | 22,300 | 99000 | 79,000 | 350000 | 2,700 |
| K 185x195x37 | 7.284 | 185 | 7.677 | 195 | 1.457 | 37 | 1.338 | 607 | 29,000 | 128000 | 96,000 | 425000 | 2,600 |
| K 195x205x37 | 7.677 | 195 | 8.071 | 205 | 1.457 | 37 | 1.367 | 620 | 30,000 | 133000 | 101,000 | 450000 | 2,500 |
| K 210x220x42 | 8.268 | 210 | 8.661 | 220 | 1.654 | 42 | 1.632 | 740 | 34,500 | 154000 | 126,000 | 560000 | 2,300 |
| K 220x230x42 | 8.661 | 220 | 9.055 | 230 | 1.654 | 42 | 1.742 | 790 | 35,500 | 158000 | 133,000 | 590000 | 2,200 |
| K 240x250x42 | 9.449 | 240 | 9.843 | 250 | 1.654 | 42 | 1.874 | 850 | 37,000 | 164000 | 142,000 | 630000 | 2,000 |
| K 265x280x50 | 10.433 | 265 | 11.024 | 280 | 1.969 | 50 | 3.991 | 1810 | 57,000 | 255000 | 193,000 | 860000 | 1,800 |

# Conrod Bearings
## KBK SERIES

- Needle roller and cage assemblies
- Wristpin bearing positions

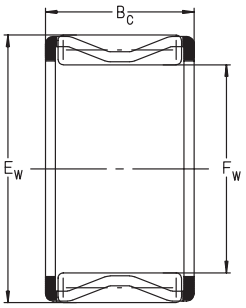



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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | HSG. BORE $E_w$ inch | HSG. BORE $E_w$ mm | WIDTH $B_c$ inch | WIDTH $B_c$ mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | ROLLER LENGTH inch | ROLLER LENGTH mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KBK 9x13x12.5 | 0.354 | 9 | 0.512 | 13 | 0.492 | 12.5 | 0.011 | 5 | 1350 | 6000 | 1370 | 6100 | 0.386 | 9.8 |
| KBK 10x13x14.5 | 0.394 | 10 | 0.512 | 13 | 0.571 | 14.5 | 0.01 | 4.7 | 1210 | 5400 | 1480 | 6600 | 0.425 | 10.8 |
| KBK 10x14x13 | 0.394 | 10 | 0.551 | 14 | 0.512 | 13 | 0.013 | 6 | 1350 | 6000 | 1390 | 6200 | 0.386 | 9.8 |
| KBK 12x15x13 | 0.472 | 12 | 0.591 | 15 | 0.512 | 13 | 0.01 | 4.7 | 1330 | 5900 | 1730 | 7700 | 0.386 | 9.8 |
| KBK 12x15x15 | 0.472 | 12 | 0.591 | 15 | 0.591 | 15 | 0.012 | 5.5 | 1350 | 6000 | 1780 | 7900 | 0.425 | 10.8 |
| KBK 12x15x17.5 | 0.472 | 12 | 0.591 | 15 | 0.689 | 17.5 | 0.014 | 6.5 | 1750 | 7800 | 2470 | 11000 | 0.543 | 13.8 |
| KBK 12x16x13 | 0.472 | 12 | 0.630 | 16 | 0.512 | 13 | 0.015 | 7 | 1550 | 6900 | 1750 | 7800 | 0.386 | 9.8 |
| KBK 12x16x16 | 0.472 | 12 | 0.630 | 16 | 0.630 | 16 | 0.019 | 8.5 | 1800 | 8000 | 2140 | 9500 | 0.465 | 11.8 |
| KBK 13x17x17.5 | 0.512 | 13 | 0.669 | 17 | 0.689 | 17.5 | 0.022 | 10 | 2180 | 9700 | 2770 | 12300 | 0.543 | 13.8 |
| KBK 14x18x13 | 0.551 | 14 | 0.709 | 18 | 0.512 | 13 | 0.018 | 8 | 1640 | 7300 | 1960 | 8700 | 0.386 | 9.8 |
| KBK 14x18x14.5 | 0.551 | 14 | 0.709 | 18 | 0.571 | 14.5 | 0.018 | 8 | 1640 | 7300 | 1960 | 8700 | 0.386 | 9.8 |
| KBK 14x18x17 | 0.551 | 14 | 0.709 | 18 | 0.669 | 17 | 0.024 | 11 | 2160 | 9600 | 2790 | 12400 | 0.504 | 12.8 |
| KBK 14x18x21 | 0.551 | 14 | 0.709 | 18 | 0.827 | 21 | 0.024 | 11 | 2810 | 12500 | 3910 | 17400 | 0.701 | 17.8 |
| KBK 15x19x20 | 0.591 | 15 | 0.748 | 19 | 0.787 | 20 | 0.029 | 13 | 2540 | 11300 | 3480 | 15500 | 0.622 | 15.8 |
| KBK 16x20x20 | 0.630 | 16 | 0.787 | 20 | 0.787 | 20 | 0.031 | 14 | 2650 | 11800 | 3800 | 16900 | 0.622 | 15.8 |
| KBK 18x22x22 | 0.709 | 18 | 0.866 | 22 | 0.866 | 22 | 0.037 | 17 | 3040 | 13500 | 4650 | 20700 | 0.622 | 15.8 |
| KBK 18x22x24 | 0.709 | 18 | 0.866 | 22 | 0.945 | 24 | 0.04 | 18 | 3170 | 14100 | 4950 | 22000 | 0.701 | 17.8 |
| KBK 18x22x25 | 0.709 | 18 | 0.866 | 22 | 0.984 | 25 | 0.044 | 20 | 3130 | 13900 | 4830 | 21500 | 0.78 | 19.8 |
| KBK 20x24x30 | 0.787 | 20 | 0.945 | 24 | 1.181 | 30 | 0.051 | 23 | 3570 | 15900 | 5960 | 26500 | 0.78 | 19.8 |
| KBK 20x25x22 | 0.787 | 20 | 0.984 | 25 | 0.866 | 22 | 0.044 | 20 | 3640 | 16200 | 5240 | 23300 | 0.642 | 16.3 |

# Conrod Bearings
## KZK SERIES

- Needle roller and cage assemblies
- Crankpin bearing positions



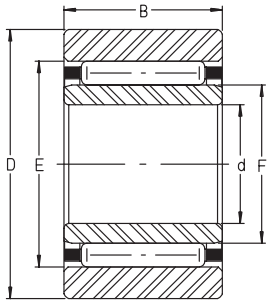

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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | HSG. BORE $E_w$ inch | HSG. BORE $E_w$ mm | WIDTH $B_c$ inch | WIDTH $B_c$ mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KZK 12x16x10 | 0.472 | 12 | 0.630 | 16 | 0.394 | 10 | 0.008 | 3.5 | 1440 | 6400 | 1620 | 7200 |
| KZK 12x17x10 | 0.472 | 12 | 0.669 | 17 | 0.394 | 10 | 0.011 | 5 | 1660 | 7400 | 1660 | 7400 |
| KZK 14x18x10 | 0.551 | 14 | 0.709 | 18 | 0.394 | 10 | 0.009 | 4 | 1600 | 7100 | 1910 | 8500 |
| KZK 14.4x20.4x10 | 0.567 | 14.4 | 0.803 | 20.4 | 0.394 | 10 | 0.014 | 6.5 | 1820 | 8100 | 1750 | 7800 |
| KZK 16x21x10 | 0.630 | 16 | 0.827 | 21 | 0.394 | 10 | 0.013 | 6 | 1840 | 8200 | 2070 | 9200 |
| KZK 16x22x12 | 0.630 | 16 | 0.866 | 22 | 0.472 | 12 | 0.021 | 9.5 | 2470 | 11000 | 2680 | 11900 |
| KZK 18x24x12 | 0.709 | 18 | 0.945 | 24 | 0.472 | 12 | 0.022 | 10 | 2610 | 11600 | 2950 | 13100 |
| KZK 18x24x15 | 0.709 | 18 | 0.945 | 24 | 0.591 | 15 | 0.031 | 14 | 2970 | 13200 | 3480 | 15500 |
| KZK 20x26x12 | 0.787 | 20 | 1.024 | 26 | 0.472 | 12 | 0.024 | 11 | 2740 | 12200 | 3210 | 14300 |
| KZK 20x26x17 | 0.787 | 20 | 1.024 | 26 | 0.669 | 17 | 0.033 | 15 | 3440 | 15300 | 4290 | 19100 |
| KZK 22x28x13 | 0.866 | 22 | 1.102 | 28 | 0.512 | 13 | 0.033 | 15 | 3130 | 13900 | 3930 | 17500 |
| KZK 22x28x16 | 0.866 | 22 | 1.102 | 28 | 0.630 | 16 | 0.04 | 18 | 3510 | 15600 | 4540 | 20200 |
| KZK 22x29x16 | 0.866 | 22 | 1.142 | 29 | 0.630 | 16 | 0.046 | 21 | 4000 | 17800 | 4900 | 21800 |
| KZK 25x32x16 | 0.984 | 25 | 1.260 | 32 | 0.630 | 16 | 0.053 | 24 | 4090 | 18200 | 5190 | 23100 |
| KZK 30x37x16 | 1.181 | 30 | 1.457 | 37 | 0.630 | 16 | 0.064 | 29 | 4800 | 21500 | 6900 | 30500 |
| KZK 35x42x20 | 1.378 | 35 | 1.654 | 42 | 0.787 | 20 | 0.093 | 42 | 5800 | 26000 | 9100 | 40500 |
| KZK 40x48x20 | 1.575 | 40 | 1.890 | 48 | 0.787 | 20 | 0.121 | 55 | 7300 | 32500 | 11500 | 51000 |

# Precision Needle Bearings

## NAO SERIES

- With inner rings
- Metric series
- Without ribs
- Ground raceways



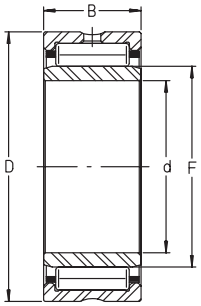

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | F mm | E mm | AXIAL PLAY inch | AXIAL PLAY mm | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NAO 6x17x10 TN | 0.236 | 6 | 0.669 | 17 | 0.394 | 10 | 0.031 | 14 | 1,070 | 4750 | 1,240 | 5500 | 10 | 13 | 0.020 | 0.5 | 29000 |
| NAO 9x22x12 TN | 0.354 | 9 | 0.866 | 22 | 0.472 | 12 | 0.052 | 23.5 | 2,250 | 10000 | 2,230 | 9900 | 12 | 18 | 0.020 | 0.5 | 25000 |
| NAO 12x24x13 | 0.472 | 12 | 0.945 | 24 | 0.512 | 13 | 0.066 | 30 | 2,000 | 8900 | 2,650 | 11800 | 16 | 20 | 0.020 | 0.5 | 24000 |
| NAO 12x24x20 | 0.472 | 12 | 0.945 | 24 | 0.787 | 20 | 0.097 | 44 | 3,000 | 13300 | 4,450 | 19800 | 16 | 20 | 0.020 | 0.5 | 24000 |
| NAO 12x28x12 | 0.472 | 12 | 1.102 | 28 | 0.472 | 12 | 0.088 | 40 | 2,600 | 11500 | 2,800 | 12500 | 16 | 22 | 0.020 | 0.5 | 22000 |
| NAO 15x28x13 | 0.591 | 15 | 1.102 | 28 | 0.512 | 13 | 0.064 | 29 | 2,200 | 9800 | 3,200 | 14300 | 20 | 24 | 0.020 | 0.5 | 22000 |
| NAO 15x32x12 | 0.591 | 15 | 1.260 | 32 | 0.472 | 12 | 0.11 | 50 | 3,000 | 13400 | 3,650 | 16200 | 20 | 26 | 0.020 | 0.5 | 21000 |
| NAO 17x30x13 | 0.669 | 17 | 1.181 | 30 | 0.512 | 13 | 0.093 | 42 | 2,340 | 10400 | 3,600 | 15900 | 22 | 26 | 0.020 | 0.5 | 21000 |
| NAO 17x35x16 | 0.669 | 17 | 1.378 | 35 | 0.630 | 16 | 0.172 | 78 | 4,500 | 20000 | 5,700 | 25500 | 22 | 29 | 0.020 | 0.5 | 19000 |
| NAO 20x35x17 | 0.787 | 20 | 1.378 | 35 | 0.669 | 17 | 0.168 | 76 | 3,350 | 14900 | 5,800 | 26000 | 25 | 29 | 0.020 | 0.5 | 18000 |
| NAO 20x37x16 | 0.787 | 20 | 1.457 | 37 | 0.630 | 16 | 0.181 | 82 | 4,700 | 21000 | 6,300 | 28000 | 25 | 32 | 0.020 | 0.5 | 17000 |
| NAO 25x40x17 | 0.984 | 25 | 1.575 | 40 | 0.669 | 17 | 0.194 | 88 | 4,400 | 19600 | 7,600 | 34000 | 30 | 35 | 0.032 | 0.8 | 15000 |
| NAO 25x42x16 | 0.984 | 25 | 1.654 | 42 | 0.630 | 16 | 0.19 | 86 | 5,200 | 23100 | 7,500 | 33500 | 30 | 37 | 0.032 | 0.8 | 15000 |
| NAO 25x42x32 | 0.984 | 25 | 1.654 | 42 | 1.260 | 32 | 0.419 | 190 | 8,900 | 39500 | 15,100 | 67000 | 30 | 37 | 0.032 | 0.8 | 15000 |
| NAO 30x45x13 | 1.181 | 30 | 1.772 | 45 | 0.512 | 13 | 0.17 | 77 | 3,650 | 16200 | 6,300 | 28000 | 35 | 40 | 0.032 | 0.8 | 13000 |
| NAO 30x45x17 | 1.181 | 30 | 1.772 | 45 | 0.669 | 17 | 0.225 | 102 | 4,700 | 20800 | 8,700 | 38500 | 35 | 40 | 0.032 | 0.8 | 13000 |
| NAO 30x45x26 | 1.181 | 30 | 1.772 | 45 | 1.024 | 26 | 0.346 | 157 | 6,200 | 27500 | 12,600 | 56000 | 35 | 40 | 0.032 | 0.8 | 13000 |
| NAO 30x47x16 | 1.181 | 30 | 1.850 | 47 | 0.630 | 16 | 0.24 | 109 | 5,500 | 24400 | 8,400 | 37500 | 35 | 42 | 0.032 | 0.8 | 13000 |
| NAO 30x47x18 | 1.181 | 30 | 1.850 | 47 | 0.709 | 18 | 0.262 | 119 | 6,200 | 27500 | 9,700 | 43000 | 35 | 42 | 0.032 | 0.8 | 13000 |
| NAO 30x52x18 | 1.181 | 30 | 2.047 | 52 | 0.709 | 18 | 0.39 | 177 | 6,300 | 28000 | 10,200 | 45500 | 37 | 44 | 0.032 | 0.8 | 12000 |
| NAO 35x50x17 | 1.378 | 35 | 1.969 | 50 | 0.669 | 17 | 0.249 | 113 | 4,800 | 21400 | 9,300 | 41500 | 40 | 45 | 0.032 | 0.8 | 12000 |
| NAO 35x55x20 | 1.378 | 35 | 2.165 | 55 | 0.787 | 20 | 0.419 | 190 | 7,300 | 32500 | 12,800 | 57000 | 40 | 47 | 0.032 | 0.8 | 11000 |
| NAO 35x57x20.5 | 1.378 | 35 | 2.244 | 57 | 0.807 | 20.5 | 0.476 | 216 | 8,100 | 36000 | 13,300 | 59000 | 42 | 50 | 0.032 | 0.8 | 11000 |
| NAO 40x55x17 | 1.575 | 40 | 2.165 | 55 | 0.669 | 17 | 0.28 | 127 | 5,100 | 22500 | 10,300 | 46000 | 45 | 50 | 0.032 | 0.8 | 10000 |
| NAO 40x65x20 | 1.575 | 40 | 2.559 | 65 | 0.787 | 20 | 0.615 | 279 | 8,000 | 35500 | 13,900 | 62000 | 50 | 58 | 0.032 | 0.8 | 9500 |
| NAO 50x68x20 | 1.969 | 50 | 2.677 | 68 | 0.787 | 20 | 0.507 | 230 | 6,400 | 28500 | 14,800 | 66000 | 55 | 60 | 0.039 | 1 | 8500 |
| NAO 50x78x20 | 1.969 | 50 | 3.071 | 78 | 0.787 | 20 | 0.904 | 410 | 9,800 | 43500 | 19,100 | 85000 | 60 | 68 | 0.039 | 1 | 7500 |
| NAO 70x100x30 | 2.756 | 70 | 3.937 | 100 | 1.181 | 30 | 1.874 | 850 | 16,200 | 72000 | 40,000 | 179000 | 80 | 88 | 0.039 | 1 | 6000 |
| NAO 75x105x25 | 2.953 | 75 | 4.134 | 105 | 0.984 | 25 | 1.535 | 696 | 12,800 | 57000 | 30,500 | 136000 | 85 | 93 | 0.039 | 1 | 5500 |
| NAO 80x110x30 | 3.150 | 80 | 4.331 | 110 | 1.181 | 30 | 2.029 | 920 | 15,300 | 68000 | 38,500 | 172000 | 90 | 98 | 0.039 | 1 | 5000 |
| NAO 90x120x30 | 3.543 | 90 | 4.724 | 120 | 1.181 | 30 | 2.302 | 1044 | 16,000 | 71000 | 42,500 | 188000 | 100 | 108 | 0.039 | 1 | 4700 |

# Precision Needle Bearings

## NA, NKI, NKIS SERIES

- With inner rings
- Metric
- Cage guided rollers
- Ground raceways with ribs



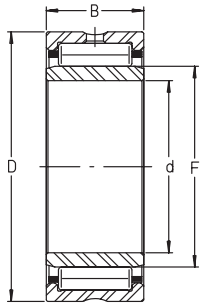

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d | SHAFT d | OD D | OD D | WIDTH B | WIDTH B | WGT. | WGT. | DYN. CAP. C | DYN. CAP. C | STAT. CAP. $C_0$ | STAT. CAP. $C_0$ | F | F | SPEED LIMIT GREASE | SPEED LIMIT OIL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | inch | mm | inch | mm | inch | mm | lbs | g | lbf | kN | lbf | kN | inch | mm | rpm | rpm |
| NKI 5/12 TN | 0.197 | 5 | 0.591 | 15 | 0.472 | 12 | 0.025 | 11.5 | 890 | 3.95 | 920 | 4.1 | 0.315 | 8 | 32000 | 32000 |
| NKI 5/16 TN | 0.197 | 5 | 0.591 | 15 | 0.630 | 16 | 0.034 | 15.3 | 1,150 | 5.1 | 1,300 | 5.8 | 0.315 | 8 | 32000 | 32000 |
| NKI 6/12 TN | 0.236 | 6 | 0.630 | 16 | 0.472 | 12 | 0.030 | 13.5 | 1,010 | 4.5 | 1,120 | 5.0 | 0.354 | 9 | 30000 | 30000 |
| NKI 6/16 TN | 0.236 | 6 | 0.630 | 16 | 0.630 | 16 | 0.038 | 17.4 | 1,330 | 5.9 | 1,600 | 7.1 | 0.354 | 9 | 30000 | 30000 |
| NKIS 6 TN | 0.236 | 6 | 0.748 | 19 | 0.512 | 13 | 0.044 | 19.9 | 1,300 | 5.8 | 1,350 | 6.0 | 0.394 | 10 | 28000 | 28000 |
| NKI 7/12 TN | 0.276 | 7 | 0.669 | 17 | 0.472 | 12 | 0.030 | 13.7 | 1,070 | 4.75 | 1,240 | 5.5 | 0.394 | 10 | 29000 | 29000 |
| NKI 7/16 TN | 0.276 | 7 | 0.669 | 17 | 0.630 | 16 | 0.040 | 18.2 | 1,390 | 6.2 | 1,750 | 7.8 | 0.394 | 10 | 29000 | 29000 |
| NKIS 7 TN | 0.276 | 7 | 0.866 | 22 | 0.630 | 16 | 0.076 | 34.6 | 2,160 | 9.6 | 2,340 | 10.4 | 0.472 | 12 | 26000 | 26000 |
| NKIS 8 | 0.315 | 8 | 0.984 | 25 | 0.630 | 16 | 0.104 | 47.1 | 3,250 | 14.4 | 3,100 | 13.8 | 0.551 | 14 | 25000 | 25000 |
| NKI 9/12 | 0.354 | 9 | 0.748 | 19 | 0.472 | 12 | 0.037 | 16.6 | 1,440 | 6.4 | 1,600 | 7.1 | 0.472 | 12 | 27000 | 27000 |
| NKI 9/16 | 0.354 | 9 | 0.748 | 19 | 0.630 | 16 | 0.048 | 21.9 | 2,020 | 9.0 | 2,470 | 11.0 | 0.472 | 12 | 27000 | 27000 |
| NKIS 9 | 0.354 | 9 | 1.024 | 26 | 0.630 | 16 | 0.091 | 41.4 | 3,250 | 14.4 | 3,150 | 14.0 | 0.591 | 15 | 24000 | 24000 |
| NA 4900 | 0.394 | 10 | 0.866 | 22 | 0.512 | 13 | 0.051 | 23 | 1,910 | 8.5 | 2,070 | 9.2 | 0.551 | 14 | 25000 | 25000 |
| NKI 10/16 | 0.394 | 10 | 0.866 | 22 | 0.630 | 16 | 0.065 | 29.4 | 2,270 | 10.1 | 2,600 | 11.5 | 0.551 | 14 | 25000 | 25000 |
| NKI 10/20 | 0.394 | 10 | 0.866 | 22 | 0.787 | 20 | 0.082 | 37.1 | 2,900 | 12.8 | 3,500 | 15.6 | 0.551 | 14 | 25000 | 25000 |
| NKIS 10 | 0.394 | 10 | 1.102 | 28 | 0.630 | 16 | 0.119 | 54 | 3,550 | 15.7 | 3,550 | 15.8 | 0.630 | 16 | 23000 | 23000 |
| NA 4901 | 0.472 | 12 | 0.945 | 24 | 0.512 | 13 | 0.057 | 26 | 2,110 | 9.4 | 2,450 | 10.9 | 0.630 | 16 | 24000 | 24000 |
| NKI 12/16 | 0.472 | 12 | 0.945 | 24 | 0.630 | 16 | 0.073 | 33.3 | 2,550 | 11.3 | 3,150 | 13.9 | 0.630 | 16 | 24000 | 24000 |
| NKI 12/20 | 0.472 | 12 | 0.945 | 24 | 0.787 | 20 | 0.092 | 41.9 | 3,250 | 14.4 | 4,250 | 18.8 | 0.630 | 16 | 24000 | 24000 |
| NA 6901 | 0.472 | 12 | 0.945 | 24 | 0.866 | 22 | 0.101 | 46 | 3,600 | 16.0 | 4,850 | 21.6 | 0.630 | 16 | 24000 | 24000 |
| NKIS 12 | 0.472 | 12 | 1.181 | 30 | 0.630 | 16 | 0.132 | 60 | 3,800 | 16.8 | 4,000 | 17.7 | 0.709 | 18 | 22000 | 22000 |
| NKI 15/16 | 0.591 | 15 | 1.063 | 27 | 0.630 | 16 | 0.086 | 38.8 | 2,900 | 13.0 | 3,900 | 17.4 | 0.748 | 19 | 22000 | 22000 |
| NKI 15/20 | 0.591 | 15 | 1.063 | 27 | 0.787 | 20 | 0.107 | 48.7 | 3,700 | 16.5 | 5,300 | 23.6 | 0.748 | 19 | 22000 | 22000 |
| NA 4902 | 0.591 | 15 | 1.102 | 28 | 0.512 | 13 | 0.075 | 34 | 2,380 | 10.6 | 3,050 | 13.6 | 0.787 | 20 | 22000 | 22000 |
| NA 6902 | 0.591 | 15 | 1.102 | 28 | 0.906 | 23 | 0.140 | 63.6 | 3,900 | 17.3 | 5,700 | 25.5 | 0.787 | 20 | 22000 | 22000 |
| NKIS 15 | 0.591 | 15 | 1.378 | 35 | 0.787 | 20 | 0.203 | 92 | 5,500 | 24.5 | 6,300 | 28.0 | 0.866 | 22 | 20000 | 20000 |
| NKI 17/16 | 0.669 | 17 | 1.142 | 29 | 0.630 | 16 | 0.093 | 42.4 | 3,050 | 13.5 | 4,200 | 18.7 | 0.827 | 21 | 21000 | 21000 |
| NKI 17/20 | 0.669 | 17 | 1.142 | 29 | 0.787 | 20 | 0.118 | 53.4 | 3,850 | 17.1 | 5,700 | 25.5 | 0.827 | 21 | 21000 | 21000 |
| NA 4903 | 0.669 | 17 | 1.181 | 30 | 0.512 | 13 | 0.082 | 37 | 2,470 | 11.0 | 3,300 | 14.6 | 0.866 | 22 | 21000 | 21000 |
| NA 6903 | 0.669 | 17 | 1.181 | 30 | 0.906 | 23 | 0.159 | 72 | 4,200 | 18.6 | 6,500 | 29.0 | 0.866 | 22 | 21000 | 21000 |
| NKIS 17 | 0.669 | 17 | 1.457 | 37 | 0.787 | 20 | 0.216 | 98 | 5,800 | 26.0 | 7,000 | 31.0 | 0.945 | 24 | 18000 | 18000 |
| NKI 20/16 | 0.787 | 20 | 1.260 | 32 | 0.630 | 16 | 0.108 | 49 | 3,350 | 15.0 | 5,000 | 22.3 | 0.945 | 24 | 19000 | 19000 |
| NKI 20/20 | 0.787 | 20 | 1.260 | 32 | 0.787 | 20 | 0.135 | 61 | 4,250 | 19.0 | 6,900 | 30.5 | 0.945 | 24 | 19000 | 19000 |
| NA 4904 | 0.787 | 20 | 1.457 | 37 | 0.669 | 17 | 0.166 | 75.2 | 4,700 | 21.0 | 5,700 | 25.5 | 0.984 | 25 | 17000 | 17000 |
| NA 6904 | 0.787 | 20 | 1.457 | 37 | 1.181 | 30 | 0.311 | 141 | 8,100 | 36.0 | 11,500 | 51.0 | 0.984 | 25 | 17000 | 17000 |
| NKIS 20 | 0.787 | 20 | 1.654 | 42 | 0.787 | 20 | 0.284 | 129 | 6,400 | 28.5 | 8,200 | 36.5 | 1.102 | 28 | 16000 | 16000 |
| NKI 22/16 | 0.866 | 22 | 1.339 | 34 | 0.630 | 16 | 0.115 | 52 | 3,450 | 15.3 | 5,300 | 23.6 | 1.024 | 26 | 18000 | 18000 |
| NKI 22/20 | 0.866 | 22 | 1.339 | 34 | 0.787 | 20 | 0.144 | 65.4 | 4,350 | 19.4 | 7,200 | 32.0 | 1.024 | 26 | 18000 | 18000 |
| NA 49/22 | 0.866 | 22 | 1.535 | 39 | 0.669 | 17 | 0.176 | 80 | 5,100 | 22.8 | 6,600 | 29.5 | 1.102 | 28 | 16000 | 16000 |
| NA 69/22 | 0.866 | 22 | 1.535 | 39 | 1.181 | 30 | 0.331 | 150 | 8,400 | 37.5 | 12,400 | 55.0 | 1.102 | 28 | 16000 | 16000 |
| NKI 25/20 | 0.984 | 25 | 1.496 | 38 | 0.787 | 20 | 0.175 | 79.4 | 4,900 | 21.9 | 7,600 | 34.0 | 1.142 | 29 | 16000 | 16000 |
| NKI 25/30 | 0.984 | 25 | 1.496 | 38 | 1.181 | 30 | 0.273 | 124 | 7,300 | 32.5 | 12,800 | 57.0 | 1.142 | 29 | 16000 | 16000 |
| NA 4905 | 0.984 | 25 | 1.654 | 42 | 0.669 | 17 | 0.194 | 88 | 5,300 | 23.6 | 7,100 | 31.5 | 1.181 | 30 | 15000 | 15000 |
| NA 6905 | 0.984 | 25 | 1.654 | 42 | 1.181 | 30 | 0.355 | 161 | 8,800 | 39.0 | 13,300 | 59.0 | 1.181 | 30 | 15000 | 15000 |
| NKIS 25 | 0.984 | 25 | 1.850 | 47 | 0.866 | 22 | 0.357 | 162 | 7,500 | 33.5 | 9,800 | 43.5 | 1.260 | 32 | 14000 | 14000 |
| NKI 28/20 | 1.102 | 28 | 1.654 | 42 | 0.787 | 20 | 0.213 | 96.5 | 5,200 | 23.1 | 8,400 | 37.5 | 1.260 | 32 | 14000 | 14000 |

# Precision Needle Bearings

## NA, NKI, NKIS SERIES

- With inner rings
- Metric
- Cage guided rollers
- Ground raceways with ribs



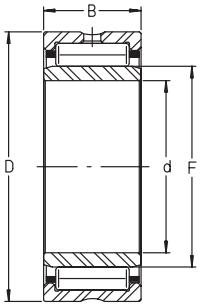

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | F inch | F mm | SPEED LIMIT GREASE rpm | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NKI 28/30 | 1.102 | 28 | 1.654 | 42 | 1.181 | 30 | 0.322 | 146 | 7,800 | 34.5 | 14,200 | 63.0 | 1.260 | 32 | 14000 | 14000 |
| NA 49/28 | 1.102 | 28 | 1.772 | 45 | 0.669 | 17 | 0.215 | 97.7 | 5,500 | 24.5 | 7,500 | 33.5 | 1.260 | 32 | 13000 | 13000 |
| NA 69/28 | 1.102 | 28 | 1.772 | 45 | 1.181 | 30 | 0.401 | 182 | 9,100 | 40.5 | 14,200 | 63.0 | 1.260 | 32 | 13000 | 13000 |
| NKI 30/20 | 1.181 | 30 | 1.772 | 45 | 0.787 | 20 | 0.247 | 112 | 5,500 | 24.3 | 9,300 | 41.5 | 1.378 | 35 | 13000 | 13000 |
| NKI 30/30 | 1.181 | 30 | 1.772 | 45 | 1.181 | 30 | 0.375 | 170 | 8,200 | 36.5 | 15,500 | 69.0 | 1.378 | 35 | 13000 | 13000 |
| NA 4906 | 1.181 | 30 | 1.850 | 47 | 0.669 | 17 | 0.223 | 101 | 5,600 | 25.0 | 8,000 | 35.5 | 1.378 | 35 | 13000 | 13000 |
| NA 6906 | 1.181 | 30 | 1.850 | 47 | 1.181 | 30 | 0.423 | 192 | 9,800 | 43.5 | 16,000 | 71.0 | 1.378 | 35 | 13000 | 13000 |
| NKIS 30 | 1.181 | 30 | 2.047 | 52 | 0.866 | 22 | 0.406 | 184 | 8,200 | 36.5 | 11,200 | 50.0 | 1.457 | 37 | 12000 | 12000 |
| NKI 32/20 | 1.260 | 32 | 1.850 | 47 | 0.787 | 20 | 0.260 | 118 | 5,600 | 24.9 | 9,800 | 43.5 | 1.457 | 37 | 12000 | 12000 |
| NKI 32/30 | 1.260 | 32 | 1.850 | 47 | 1.181 | 30 | 0.397 | 180 | 8,300 | 37.0 | 16,400 | 73.0 | 1.457 | 37 | 12000 | 12000 |
| NA 49/32 | 1.260 | 32 | 2.047 | 52 | 0.787 | 20 | 0.348 | 158 | 6,900 | 30.5 | 10,700 | 47.5 | 1.575 | 40 | 12000 | 12000 |
| NA 69/32 | 1.260 | 32 | 2.047 | 52 | 1.417 | 36 | 0.635 | 288 | 10,600 | 47.0 | 18,400 | 82.0 | 1.575 | 40 | 12000 | 12000 |
| NKI 35/20 | 1.378 | 35 | 1.969 | 50 | 0.787 | 20 | 0.280 | 127 | 5,800 | 26.0 | 10,600 | 47.0 | 1.575 | 40 | 12000 | 12000 |
| NKI 35/30 | 1.378 | 35 | 1.969 | 50 | 1.181 | 30 | 0.426 | 193 | 8,800 | 39.0 | 17,800 | 79.0 | 1.575 | 40 | 12000 | 12000 |
| NA 4907 | 1.378 | 35 | 2.165 | 55 | 0.787 | 20 | 0.375 | 170 | 7,100 | 31.5 | 11,200 | 50.0 | 1.654 | 42 | 11000 | 11000 |
| NA 6907 | 1.378 | 35 | 2.165 | 55 | 1.417 | 36 | 0.684 | 310 | 10,800 | 48.0 | 19,300 | 86.0 | 1.654 | 42 | 11000 | 11000 |
| NKIS 35 | 1.378 | 35 | 2.284 | 58 | 0.866 | 22 | 0.485 | 220 | 8,800 | 39.0 | 12,800 | 57.0 | 1.693 | 43 | 11000 | 11000 |
| NKI 38/20 | 1.496 | 38 | 2.087 | 53 | 0.787 | 20 | 0.300 | 136 | 6,100 | 27.0 | 11,500 | 51.0 | 1.693 | 43 | 11000 | 11000 |
| NKI 38/30 | 1.496 | 38 | 2.087 | 53 | 1.181 | 30 | 0.456 | 207 | 9,100 | 40.5 | 19,100 | 85.0 | 1.693 | 43 | 11000 | 11000 |
| NKI 40/20 | 1.575 | 40 | 2.165 | 55 | 0.787 | 20 | 0.313 | 142 | 6,200 | 27.5 | 11,900 | 53.0 | 1.772 | 45 | 10000 | 10000 |
| NKI 40/30 | 1.575 | 40 | 2.165 | 55 | 1.181 | 30 | 0.476 | 216 | 9,200 | 41.0 | 19,800 | 88.0 | 1.772 | 45 | 10000 | 10000 |
| NA 4908 | 1.575 | 40 | 2.441 | 62 | 0.866 | 22 | 0.507 | 230 | 9,700 | 43.0 | 15,100 | 67.0 | 1.890 | 48 | 9500 | 9500 |
| NA 6908 | 1.575 | 40 | 2.441 | 62 | 1.575 | 40 | 0.948 | 430 | 14,800 | 66.0 | 26,000 | 116.0 | 1.890 | 48 | 9500 | 9500 |
| NKIS 40 | 1.575 | 40 | 2.559 | 65 | 0.866 | 22 | 0.620 | 281 | 9,600 | 42.5 | 15,100 | 67.0 | 1.969 | 50 | 9500 | 9500 |
| NKI 42/20 | 1.654 | 42 | 2.244 | 57 | 0.787 | 20 | 0.326 | 148 | 6,400 | 28.5 | 12,600 | 56.0 | 1.850 | 47 | 10000 | 10000 |
| NKI 42/30 | 1.654 | 42 | 2.244 | 57 | 1.181 | 30 | 0.490 | 222 | 9,700 | 43.0 | 21,100 | 94.0 | 1.850 | 47 | 10000 | 10000 |
| NKI 45/25 | 1.772 | 45 | 2.441 | 62 | 0.984 | 25 | 0.505 | 229 | 8,500 | 38.0 | 16,600 | 74.0 | 1.969 | 50 | 9000 | 9000 |
| NKI 45/35 | 1.772 | 45 | 2.441 | 62 | 1.378 | 35 | 0.710 | 322 | 11,200 | 50.0 | 23,800 | 106.0 | 1.969 | 50 | 9000 | 9000 |
| NA 4909 | 1.772 | 45 | 2.677 | 68 | 0.866 | 22 | 0.598 | 271 | 10,100 | 45.0 | 16,400 | 73.0 | 2.047 | 52 | 8500 | 8500 |
| NA 6909 | 1.772 | 45 | 2.677 | 68 | 1.575 | 40 | 1.091 | 495 | 15,500 | 69.0 | 28,500 | 127.0 | 2.047 | 52 | 8500 | 8500 |
| NKIS 45 | 1.772 | 45 | 2.835 | 72 | 0.866 | 22 | 0.741 | 336 | 10,100 | 45.0 | 16,600 | 74.0 | 2.165 | 55 | 8500 | 8500 |
| NKI 50/25 | 1.969 | 50 | 2.677 | 68 | 0.984 | 25 | 0.595 | 270 | 9,000 | 40.0 | 18,400 | 82.0 | 2.165 | 55 | 8500 | 8500 |
| NKI 50/35 | 1.969 | 50 | 2.677 | 68 | 1.378 | 35 | 0.836 | 379 | 11,900 | 53.0 | 26,500 | 118.0 | 2.165 | 55 | 8500 | 8500 |
| NA 4910 | 1.969 | 50 | 2.835 | 72 | 0.866 | 22 | 0.604 | 274 | 10,600 | 47.0 | 18,000 | 80.0 | 2.284 | 58 | 8000 | 8000 |
| NA 6910 | 1.969 | 50 | 2.835 | 72 | 1.575 | 40 | 1.136 | 515 | 16,400 | 73.0 | 31,500 | 139.0 | 2.284 | 58 | 8000 | 8000 |
| NKIS 50 | 1.969 | 50 | 3.150 | 80 | 1.102 | 28 | 1.142 | 518 | 14,200 | 63.0 | 22,000 | 98.0 | 2.362 | 60 | 7500 | 7500 |
| NKI 55/25 | 2.165 | 55 | 2.835 | 72 | 0.984 | 25 | 0.600 | 272 | 9,400 | 42.0 | 20,200 | 90.0 | 2.362 | 60 | 7500 | 7500 |
| NKI 55/35 | 2.165 | 55 | 2.835 | 72 | 1.378 | 35 | 0.836 | 379 | 12,600 | 56.0 | 29,000 | 130.0 | 2.362 | 60 | 7500 | 7500 |
| NA 4911 | 2.165 | 55 | 3.150 | 80 | 0.984 | 25 | 0.867 | 393 | 13,000 | 58.0 | 22,500 | 100.0 | 2.480 | 63 | 7500 | 7500 |
| NA 6911 | 2.165 | 55 | 3.150 | 80 | 1.772 | 45 | 1.720 | 780 | 20,200 | 90.0 | 39,500 | 176.0 | 2.480 | 63 | 7500 | 7500 |
| NKIS 55 | 2.165 | 55 | 3.347 | 85 | 1.102 | 28 | 1.230 | 558 | 15,100 | 67.0 | 24,300 | 108.0 | 2.559 | 65 | 7000 | 7000 |
| NKI 60/25 | 2.362 | 60 | 3.228 | 82 | 0.984 | 25 | 0.869 | 394 | 9,800 | 43.5 | 20,000 | 89.0 | 2.677 | 68 | 7000 | 7000 |
| NKI 60/35 | 2.362 | 60 | 3.228 | 82 | 1.378 | 35 | 1.219 | 553 | 13,900 | 62.0 | 31,500 | 139.0 | 2.677 | 68 | 7000 | 7000 |
| NA 4912 | 2.362 | 60 | 3.347 | 85 | 0.984 | 25 | 0.939 | 426 | 13,500 | 60.0 | 24,300 | 108.0 | 2.677 | 68 | 7000 | 7000 |
| NA 6912 | 2.362 | 60 | 3.347 | 85 | 1.772 | 45 | 1.782 | 808 | 21,100 | 94.0 | 43,000 | 191.0 | 2.677 | 68 | 7000 | 7000 |
| NKIS 60 | 2.362 | 60 | 3.543 | 90 | 1.102 | 28 | 1.235 | 560 | 15,300 | 68.0 | 25,500 | 113.0 | 2.756 | 70 | 6500 | 6500 |

# Precision Needle Bearings

## NA, NKI, NKIS SERIES

- With inner rings
- Metric
- Cage guided rollers
- Ground raceways with ribs



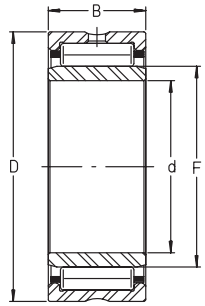

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d | SHAFT d | OD D | OD D | WIDTH B | WIDTH B | WGT. | WGT. | DYN. CAP. C | DYN. CAP. C | STAT. CAP. $C_0$ | STAT. CAP. $C_0$ | F | F | SPEED LIMIT GREASE | SPEED LIMIT OIL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | inch | mm | inch | mm | inch | mm | lbs | g | lbf | kN | lbf | kN | inch | mm | rpm | rpm |
| NKI 65/25 | 2.559 | 65 | 3.543 | 90 | 0.984 | 25 | 1.030 | 467 | 11,900 | 53.0 | 22,500 | 100.0 | 2.874 | 73 | 6500 | 6500 |
| NA 4913 | 2.559 | 65 | 3.543 | 90 | 0.984 | 25 | 1.005 | 456 | 13,700 | 61.0 | 25,000 | 112.0 | 2.835 | 72 | 6500 | 6500 |
| NKI 65/35 | 2.559 | 65 | 3.543 | 90 | 1.378 | 35 | 1.453 | 659 | 16,900 | 75.0 | 35,000 | 156.0 | 2.874 | 73 | 6500 | 6500 |
| NA 6913 | 2.559 | 65 | 3.543 | 90 | 1.772 | 45 | 1.837 | 833 | 21,400 | 95.0 | 44,500 | 198.0 | 2.835 | 72 | 6500 | 6500 |
| NKIS 65 | 2.559 | 65 | 3.740 | 95 | 1.102 | 28 | 1.413 | 641 | 16,000 | 71.0 | 27,500 | 123.0 | 2.953 | 75 | 6000 | 6000 |
| NKI 70/25 | 2.756 | 70 | 3.740 | 95 | 0.984 | 25 | 1.149 | 521 | 12,600 | 56.0 | 27,000 | 119.0 | 3.150 | 80 | 6000 | 6000 |
| NKI 70/35 | 2.756 | 70 | 3.740 | 95 | 1.378 | 35 | 1.625 | 737 | 17,500 | 78.0 | 41,500 | 184.0 | 3.150 | 80 | 6000 | 6000 |
| NKIS 70 | 2.756 | 70 | 3.937 | 100 | 1.102 | 28 | 1.499 | 680 | 16,900 | 75.0 | 30,000 | 133.0 | 3.150 | 80 | 6000 | 6000 |
| NA 4914 | 2.756 | 70 | 3.937 | 100 | 1.181 | 30 | 1.605 | 728 | 18,900 | 84.0 | 35,000 | 156.0 | 3.150 | 80 | 6000 | 6000 |
| NA 6914 | 2.756 | 70 | 3.937 | 100 | 2.126 | 54 | 2.955 | 1340 | 29,000 | 128.0 | 60,000 | 265.0 | 3.150 | 80 | 6000 | 6000 |
| NKI 75/25 | 2.953 | 75 | 4.134 | 105 | 0.984 | 25 | 1.413 | 641 | 15,500 | 69.0 | 27,500 | 123.0 | 3.347 | 85 | 5500 | 5500 |
| NA 4915 | 2.953 | 75 | 4.134 | 105 | 1.181 | 30 | 1.709 | 775 | 19,300 | 86.0 | 36,500 | 162.0 | 3.347 | 85 | 5500 | 5500 |
| NKI 75/35 | 2.953 | 75 | 4.134 | 105 | 1.378 | 35 | 2.002 | 908 | 22,000 | 98.0 | 43,500 | 193.0 | 3.347 | 85 | 5500 | 5500 |
| NA 6915 | 2.953 | 75 | 4.134 | 105 | 2.126 | 54 | 3.197 | 1450 | 29,000 | 130.0 | 62,000 | 275.0 | 3.347 | 85 | 5500 | 5500 |
| NKI 80/25 | 3.150 | 80 | 4.331 | 110 | 0.984 | 25 | 1.493 | 677 | 16,200 | 72.0 | 29,500 | 132.0 | 3.543 | 90 | 5000 | 5000 |
| NA 4916 | 3.150 | 80 | 4.331 | 110 | 1.181 | 30 | 1.936 | 878 | 20,000 | 89.0 | 39,000 | 174.0 | 3.543 | 90 | 5000 | 5000 |
| NKI 80/35 | 3.150 | 80 | 4.331 | 110 | 1.378 | 35 | 2.115 | 959 | 23,200 | 103.0 | 47,000 | 208.0 | 3.543 | 90 | 5000 | 5000 |
| NA 6916 | 3.150 | 80 | 4.331 | 110 | 2.126 | 54 | 3.356 | 1522 | 30,500 | 135.0 | 67,000 | 300.0 | 3.543 | 90 | 5000 | 5000 |
| NKI 85/26 | 3.347 | 85 | 4.528 | 115 | 1.024 | 26 | 1.638 | 743 | 16,400 | 73.0 | 31,000 | 137.0 | 3.740 | 95 | 4900 | 4900 |
| NKI 85/36 | 3.347 | 85 | 4.528 | 115 | 1.417 | 36 | 2.293 | 1040 | 24,100 | 107.0 | 50,000 | 223.0 | 3.740 | 95 | 4900 | 4900 |
| NA 4917 | 3.347 | 85 | 4.724 | 120 | 1.378 | 35 | 2.756 | 1250 | 25,000 | 111.0 | 53,000 | 237.0 | 3.937 | 100 | 4800 | 4800 |
| NA 6917 | 3.347 | 85 | 4.724 | 120 | 2.480 | 63 | 4.851 | 2200 | 37,500 | 166.0 | 90,000 | 400.0 | 3.937 | 100 | 4800 | 4800 |
| NKI 90/26 | 3.543 | 90 | 4.724 | 120 | 1.024 | 26 | 1.715 | 778 | 17,100 | 76.0 | 33,000 | 146.0 | 3.937 | 100 | 4700 | 4700 |
| NKI 90/36 | 3.543 | 90 | 4.724 | 120 | 1.417 | 36 | 2.403 | 1090 | 25,000 | 111.0 | 53,000 | 237.0 | 3.937 | 100 | 4700 | 4700 |
| NA 4918 | 3.543 | 90 | 4.921 | 125 | 1.378 | 35 | 2.893 | 1312 | 25,500 | 114.0 | 56,000 | 250.0 | 4.134 | 105 | 4600 | 4600 |
| NA 6918 | 3.543 | 90 | 4.921 | 125 | 2.480 | 63 | 5.094 | 2310 | 38,500 | 172.0 | 96,000 | 425.0 | 4.134 | 105 | 4600 | 4600 |
| NKI 95/26 | 3.740 | 95 | 4.921 | 125 | 1.024 | 26 | 1.799 | 816 | 17,500 | 78.0 | 35,000 | 155.0 | 4.134 | 105 | 4500 | 4500 |
| NKI 95/36 | 3.740 | 95 | 4.921 | 125 | 1.417 | 36 | 2.525 | 1145 | 25,500 | 114.0 | 56,000 | 250.0 | 4.134 | 105 | 4500 | 4500 |
| NA 4919 | 3.740 | 95 | 5.118 | 130 | 1.378 | 35 | 3.023 | 1371 | 26,000 | 116.0 | 58,000 | 260.0 | 4.331 | 110 | 4400 | 4400 |
| NA 6919 | 3.740 | 95 | 5.118 | 130 | 2.480 | 63 | 5.513 | 2500 | 39,000 | 174.0 | 99,000 | 440.0 | 4.331 | 110 | 4400 | 4400 |
| NKI 100/30 | 3.937 | 100 | 5.118 | 130 | 1.181 | 30 | 2.183 | 990 | 22,000 | 98.0 | 47,000 | 210.0 | 4.331 | 110 | 4300 | 4300 |
| NKI 100/40 | 3.937 | 100 | 5.118 | 130 | 1.575 | 40 | 2.933 | 1330 | 28,500 | 127.0 | 65,000 | 290.0 | 4.331 | 110 | 4300 | 4300 |
| NKIS 100 | 3.937 | 100 | 5.315 | 135 | 1.260 | 32 | 2.955 | 1340 | 20,500 | 91.0 | 46,000 | 204.0 | 4.528 | 115 | 4200 | 4200 |
| NA 4920 | 3.937 | 100 | 5.512 | 140 | 1.575 | 40 | 4.190 | 1900 | 29,000 | 128.0 | 61,000 | 270.0 | 4.528 | 115 | 4100 | 4100 |
| NA 4822 | 4.331 | 110 | 5.512 | 140 | 1.181 | 30 | 2.381 | 1080 | 21,100 | 94.0 | 48,500 | 216.0 | 4.724 | 120 | 3900 | 3900 |
| NKI 110/40 | 4.331 | 110 | 5.512 | 140 | 1.575 | 40 | 3.219 | 1460 | 25,500 | 113.0 | 62,000 | 275.0 | 4.724 | 120 | 3900 | 3900 |
| NA 4922 | 4.331 | 110 | 5.906 | 150 | 1.575 | 40 | 4.564 | 2070 | 29,500 | 132.0 | 65,000 | 290.0 | 4.921 | 125 | 3800 | 3800 |
| NA 4824 | 4.724 | 120 | 5.906 | 150 | 1.181 | 30 | 2.580 | 1170 | 22,300 | 99.0 | 54,000 | 239.0 | 5.118 | 130 | 3600 | 3600 |
| NA 4924 | 4.724 | 120 | 6.496 | 165 | 1.772 | 45 | 6.306 | 2860 | 40,500 | 181.0 | 88,000 | 390.0 | 5.315 | 135 | 3400 | 3400 |
| NA 4826 | 5.118 | 130 | 6.496 | 165 | 1.378 | 35 | 3.991 | 1810 | 26,500 | 118.0 | 70,000 | 310.0 | 5.709 | 145 | 3300 | 3300 |
| NA 4926 | 5.118 | 130 | 7.087 | 180 | 1.969 | 50 | 8.600 | 3900 | 45,500 | 203.0 | 106,000 | 470.0 | 5.906 | 150 | 3200 | 3200 |
| NA 4828 | 5.512 | 140 | 6.890 | 175 | 1.378 | 35 | 4.234 | 1920 | 27,000 | 120.0 | 73,000 | 325.0 | 6.102 | 155 | 3100 | 3100 |
| NKI 140/32 | 5.512 | 140 | 7.087 | 180 | 1.260 | 32 | 4.520 | 2050 | 25,500 | 114.0 | 58,000 | 260.0 | 6.102 | 155 | 3100 | 3100 |
| NA 4928 | 5.512 | 140 | 7.480 | 190 | 1.969 | 50 | 9.151 | 4150 | 47,000 | 209.0 | 112,000 | 500.0 | 6.299 | 160 | 3000 | 3000 |
| NA 4830 | 5.906 | 150 | 7.480 | 190 | 1.575 | 40 | 5.998 | 2720 | 34,000 | 152.0 | 90,000 | 400.0 | 6.496 | 165 | 2900 | 2900 |
| NA 4832 | 6.299 | 160 | 7.874 | 200 | 1.575 | 40 | 6.372 | 2890 | 36,000 | 160.0 | 98,000 | 435.0 | 6.890 | 175 | 2700 | 2700 |

# Precision Needle Bearings

## NA, NKI, NKIS SERIES

- With inner rings
- Metric
- Cage guided rollers
- Ground raceways with ribs



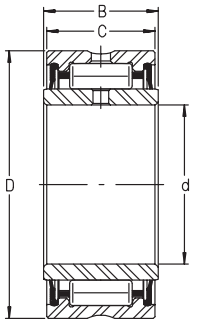

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | F inch | F mm | SPEED LIMIT GREASE rpm | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NA 4834 | 6.693 | 170 | 8.465 | 215 | 1.772 | 45 | 8.732 | 3960 | 41,500 | 185.0 | 115,000 | 510.0 | 7.284 | 185 | 2500 | 2500 |
| NA 4836 | 7.087 | 180 | 8.858 | 225 | 1.772 | 45 | 9.261 | 4200 | 43,500 | 194.0 | 124,000 | 550.0 | 7.677 | 195 | 2400 | 2400 |
| NA 4838 | 7.480 | 190 | 9.449 | 240 | 1.969 | 50 | 12.370 | 5610 | 51,000 | 227.0 | 155,000 | 690.0 | 8.268 | 210 | 2300 | 2300 |
| NA 4840 | 7.874 | 200 | 9.843 | 250 | 1.969 | 50 | 12.877 | 5840 | 52,000 | 230.0 | 162,000 | 720.0 | 8.661 | 220 | 2200 | 2200 |
| NA 4844 | 8.661 | 220 | 10.630 | 270 | 1.969 | 50 | 14.068 | 6380 | 55,000 | 243.0 | 178,000 | 790.0 | 9.449 | 240 | 2000 | 2000 |
| NA 4848 | 9.449 | 240 | 11.811 | 300 | 2.362 | 60 | 22.050 | 10000 | 80,000 | 355.0 | 243,000 | 1080.0 | 10.433 | 265 | 1800 | 1800 |
| NA 4852 | 10.236 | 260 | 12.598 | 320 | 2.362 | 60 | 23.373 | 10600 | 83,000 | 370.0 | 260,000 | 1160.0 | 11.221 | 285 | 1700 | 1700 |
| NA 4856 | 11.024 | 280 | 13.780 | 350 | 2.717 | 69 | 33.737 | 15300 | 101,000 | 450.0 | 290,000 | 1300.0 | 12.008 | 305 | 1600 | 1600 |
| NA 4860 | 11.811 | 300 | 14.961 | 380 | 3.150 | 80 | 48.069 | 21800 | 139,000 | 620.0 | 400,000 | 1770.0 | 12.992 | 330 | 1400 | 1400 |
| NA 4864 | 12.598 | 320 | 15.748 | 400 | 3.150 | 80 | 50.715 | 23000 | 142,000 | 630.0 | 415,000 | 1850.0 | 13.780 | 350 | 1400 | 1400 |
| NA 4868 | 13.386 | 340 | 16.535 | 420 | 3.150 | 80 | 53.361 | 24200 | 144,000 | 640.0 | 435,000 | 1940.0 | 14.567 | 370 | 1300 | 1300 |
| NA 4872 | 14.173 | 360 | 17.323 | 440 | 3.150 | 80 | 56.448 | 25600 | 148,000 | 660.0 | 455,000 | 2020.0 | 15.354 | 390 | 1200 | 1200 |
| NA 4876 | 14.961 | 380 | 18.898 | 480 | 3.937 | 100 | 93.933 | 42600 | 225,000 | 1000.0 | 650,000 | 2900.0 | 16.339 | 415 | 1100 | 1100 |

# Precision Needle Bearings

## NA49..2RS, NA49..RS SERIES

- With inner rings
- Sealed

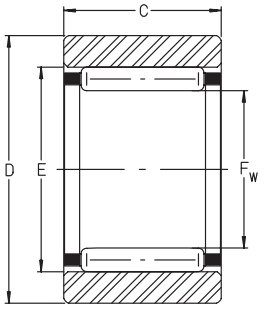



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER B inch | WIDTH INNER B mm | WIDTH OUTER C inch | WIDTH OUTER C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NA 4900 2RS | NA 4900 RS | 0.394 | 10 | 0.866 | 22 | 0.551 | 14 | 0.512 | 13 | 0.054 | 24.5 | 1530 | 6800 | 1550 | 6900 | 13000 |
| NA 4901 2RS | NA 4901 RS | 0.472 | 12 | 0.945 | 24 | 0.551 | 14 | 0.512 | 13 | 0.061 | 27.5 | 1710 | 7600 | 1870 | 8300 | 12000 |
| NA 4902 2RS | NA 4902 RS | 0.591 | 15 | 1.102 | 28 | 0.551 | 14 | 0.512 | 13 | 0.082 | 37 | 1930 | 8600 | 2320 | 10300 | 10000 |
| NA 4903 2RS | NA 4903 RS | 0.669 | 17 | 1.181 | 30 | 0.551 | 14 | 0.512 | 13 | 0.088 | 40 | 1980 | 8800 | 2470 | 11000 | 9000 |
| NA 4904 2RS | NA 4904 RS | 0.787 | 20 | 1.457 | 37 | 0.709 | 18 | 0.669 | 17 | 0.176 | 80 | 3890 | 17300 | 4470 | 19900 | 7500 |
| NA 4905 2RS | NA 4905 RS | 0.984 | 25 | 1.654 | 42 | 0.709 | 18 | 0.669 | 17 | 0.197 | 89.5 | 4340 | 19300 | 5440 | 24200 | 6500 |
| NA 4906 2RS | NA 4906 RS | 1.181 | 30 | 1.85 | 47 | 0.709 | 18 | 0.669 | 17 | 0.229 | 104 | 4740 | 21100 | 6410 | 28500 | 5500 |
| NA 4907 2RS | NA 4907 RS | 1.378 | 35 | 2.165 | 55 | 0.827 | 21 | 0.787 | 20 | 0.386 | 175 | 5960 | 26500 | 8880 | 39500 | 4800 |
| NA 4908 2RS | NA 4908 RS | 1.575 | 40 | 2.441 | 62 | 0.906 | 23 | 0.866 | 22 | 0.556 | 252 | 8090 | 36000 | 11920 | 53000 | 4200 |
| NA 4909 2RS | NA 4909 RS | 1.772 | 45 | 2.677 | 68 | 0.906 | 23 | 0.866 | 22 | 0.639 | 290 | 8540 | 38000 | 13260 | 59000 | 3900 |
| NA 4910 2RS | NA 4910 RS | 1.969 | 50 | 2.835 | 72 | 0.906 | 23 | 0.866 | 22 | 0.65 | 295 | 8990 | 40000 | 14390 | 64000 | 3500 |

# Precision Needle Bearings
## RNAO SERIES

- Without inner rings
- Without ribs
- Ground raceways
- Metric series

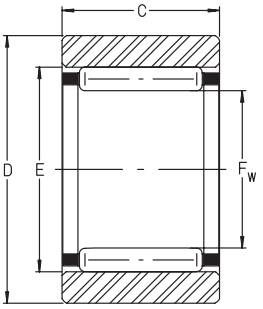



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | E inch | E mm | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RNAO 5x10x8 TN | 0.197 | 5 | 0.394 | 10 | 0.315 | 8 | 0.007 | 3 | 530 | 2350 | 430 | 1920 | 0.315 | 8 | 37000 |
| RNAO 6x13x8 TN | 0.236 | 6 | 0.512 | 13 | 0.315 | 8 | 0.013 | 6 | 590 | 2600 | 510 | 2280 | 0.354 | 9 | 32000 |
| RNAO 7x14x8 TN | 0.276 | 7 | 0.551 | 14 | 0.315 | 8 | 0.013 | 6 | 640 | 2850 | 600 | 2650 | 0.394 | 10 | 31000 |
| RNAO 8x15x10 TN | 0.315 | 8 | 0.591 | 15 | 0.394 | 10 | 0.018 | 8 | 890 | 3950 | 920 | 4100 | 0.433 | 11 | 29000 |
| RNAO 10x17x10 TN | 0.394 | 10 | 0.669 | 17 | 0.394 | 10 | 0.022 | 10 | 1,070 | 4750 | 1,240 | 5500 | 0.512 | 13 | 27000 |
| RNAO 12x19x13.5 TN | 0.472 | 12 | 0.748 | 19 | 0.532 | 13.5 | 0.033 | 15 | 1,440 | 6400 | 1,910 | 8500 | 0.591 | 15 | 25000 |
| RNAO 12x22x12 TN | 0.472 | 12 | 0.866 | 22 | 0.472 | 12 | 0.042 | 19 | 2,250 | 10000 | 2,230 | 9900 | 0.709 | 18 | 24000 |
| RNAO 15x23x13 | 0.591 | 15 | 0.906 | 23 | 0.512 | 13 | 0.044 | 20 | 1,910 | 8500 | 2,450 | 10900 | 0.748 | 19 | 23000 |
| RNAO 16x24x13 | 0.630 | 16 | 0.945 | 24 | 0.512 | 13 | 0.046 | 21 | 2,000 | 8900 | 2,650 | 11800 | 0.787 | 20 | 22000 |
| RNAO 16x24x20 | 0.630 | 16 | 0.945 | 24 | 0.787 | 20 | 0.071 | 32 | 3,000 | 13300 | 4,450 | 19800 | 0.787 | 20 | 22000 |
| RNAO 16x28x12 | 0.630 | 16 | 1.102 | 28 | 0.472 | 12 | 0.071 | 32 | 2,600 | 11500 | 2,800 | 12500 | 0.866 | 22 | 21000 |
| RNAO 17x25x13 | 0.669 | 17 | 0.984 | 25 | 0.512 | 13 | 0.049 | 22 | 2,340 | 10400 | 3,300 | 14600 | 0.827 | 21 | 22000 |
| RNAO 18x30x24 | 0.709 | 18 | 1.181 | 30 | 0.945 | 24 | 0.152 | 69 | 4,500 | 20100 | 6,000 | 26500 | 0.945 | 24 | 20000 |
| RNAO 20x28x13 | 0.787 | 20 | 1.102 | 28 | 0.512 | 13 | 0.055 | 25 | 2,200 | 9800 | 3,200 | 14300 | 0.945 | 24 | 20000 |
| RNAO 20x28x26 | 0.787 | 20 | 1.102 | 28 | 1.024 | 26 | 0.110 | 50 | 3,800 | 16800 | 6,400 | 28500 | 0.945 | 24 | 20000 |
| RNAO 20x32x12 | 0.787 | 20 | 1.260 | 32 | 0.472 | 12 | 0.084 | 38 | 3,000 | 13400 | 3,650 | 16200 | 1.024 | 26 | 19000 |
| RNAO 22x30x13 | 0.866 | 22 | 1.181 | 30 | 0.512 | 13 | 0.060 | 27 | 2,340 | 10400 | 3,600 | 15900 | 1.024 | 26 | 19000 |
| RNAO 22x35x16 | 0.866 | 22 | 1.378 | 35 | 0.630 | 16 | 0.130 | 59 | 4,500 | 20000 | 5,700 | 25500 | 1.142 | 29 | 17000 |
| RNAO 25x35x17 | 0.984 | 25 | 1.378 | 35 | 0.669 | 17 | 0.117 | 53 | 3,350 | 14900 | 5,800 | 26000 | 1.142 | 29 | 16000 |
| RNAO 25x35x26 | 0.984 | 25 | 1.378 | 35 | 1.024 | 26 | 0.168 | 76 | 4,350 | 19400 | 8,300 | 37000 | 1.142 | 29 | 16000 |
| RNAO 25x37x16 | 0.984 | 25 | 1.457 | 37 | 0.630 | 16 | 0.132 | 60 | 4,700 | 21000 | 6,300 | 28000 | 1.260 | 32 | 16000 |
| RNAO 25x37x32 | 0.984 | 25 | 1.457 | 37 | 1.260 | 32 | 0.262 | 119 | 8,100 | 36000 | 12,600 | 56000 | 1.260 | 32 | 16000 |
| RNAO 26x39x13 | 1.024 | 26 | 1.535 | 39 | 0.512 | 13 | 0.132 | 60 | 2,600 | 11600 | 4,300 | 19200 | 1.181 | 30 | 15000 |
| RNAO 30x40x17 | 1.181 | 30 | 1.575 | 40 | 0.669 | 17 | 0.132 | 60 | 4,400 | 19600 | 7,600 | 34000 | 1.378 | 35 | 14000 |
| RNAO 30x40x26 | 1.181 | 30 | 1.575 | 40 | 1.024 | 26 | 0.207 | 94 | 6,100 | 27000 | 11,500 | 51000 | 1.378 | 35 | 14000 |
| RNAO 30x42x16 | 1.181 | 30 | 1.654 | 42 | 0.630 | 16 | 0.130 | 59 | 5,200 | 23100 | 7,500 | 33500 | 1.457 | 37 | 14000 |
| RNAO 30x42x32 | 1.181 | 30 | 1.654 | 42 | 1.260 | 32 | 0.302 | 137 | 8,900 | 39500 | 15,100 | 67000 | 1.457 | 37 | 14000 |
| RNAO 35x45x13 | 1.378 | 35 | 1.772 | 45 | 0.512 | 13 | 0.117 | 53 | 3,650 | 16200 | 6,300 | 28000 | 1.575 | 40 | 12000 |
| RNAO 35x45x17 | 1.378 | 35 | 1.772 | 45 | 0.669 | 17 | 0.152 | 69 | 4,700 | 20800 | 8,700 | 38500 | 1.575 | 40 | 12000 |
| RNAO 35x45x26 | 1.378 | 35 | 1.772 | 45 | 1.024 | 26 | 0.201 | 91 | 6,200 | 27500 | 12,600 | 56000 | 1.575 | 40 | 12000 |
| RNAO 35x47x16 | 1.378 | 35 | 1.850 | 47 | 0.630 | 16 | 0.172 | 78 | 5,500 | 24400 | 8,400 | 37500 | 1.654 | 42 | 12000 |
| RNAO 35x47x18 | 1.378 | 35 | 1.850 | 47 | 0.709 | 18 | 0.196 | 89 | 6,200 | 27500 | 9,700 | 43000 | 1.654 | 42 | 12000 |
| RNAO 35x47x32 | 1.378 | 35 | 1.850 | 47 | 1.260 | 32 | 0.344 | 156 | 9,400 | 42000 | 16,900 | 75000 | 1.654 | 42 | 12000 |
| RNAO 37x52x18 | 1.457 | 37 | 2.047 | 52 | 0.709 | 18 | 0.276 | 125 | 6,300 | 28000 | 10,200 | 45500 | 1.732 | 44 | 11000 |
| RNAO 40x50x17 | 1.575 | 40 | 1.969 | 50 | 0.669 | 17 | 0.163 | 74 | 4,800 | 21400 | 9,300 | 41500 | 1.772 | 45 | 11000 |
| RNAO 40x50x34 | 1.575 | 40 | 1.969 | 50 | 1.339 | 34 | 0.335 | 152 | 8,200 | 36500 | 18,700 | 83000 | 1.772 | 45 | 11000 |
| RNAO 40x55x20 | 1.575 | 40 | 2.165 | 55 | 0.787 | 20 | 0.320 | 145 | 7,300 | 32500 | 12,800 | 57000 | 1.850 | 47 | 11000 |
| RNAO 40x55x40 | 1.575 | 40 | 2.165 | 55 | 1.575 | 40 | 0.606 | 275 | 13,900 | 62000 | 26,500 | 118000 | 1.890 | 48 | 10000 |
| RNAO 42x57x20 | 1.654 | 42 | 2.244 | 57 | 0.787 | 20 | 0.326 | 148 | 8,100 | 36000 | 13,300 | 59000 | 1.969 | 50 | 10000 |
| RNAO 45x55x17 | 1.772 | 45 | 2.165 | 55 | 0.669 | 17 | 0.183 | 83 | 5,100 | 22500 | 10,300 | 46000 | 1.969 | 50 | 10000 |
| RNAO 45x62x40 | 1.772 | 45 | 2.441 | 62 | 1.575 | 40 | 0.831 | 377 | 15,100 | 67000 | 30,500 | 135000 | 2.087 | 53 | 9000 |
| RNAO 50x62x20 | 1.969 | 50 | 2.441 | 62 | 0.787 | 20 | 0.309 | 140 | 6,000 | 26500 | 13,500 | 60000 | 2.165 | 55 | 9000 |
| RNAO 50x65x20 | 1.969 | 50 | 2.559 | 65 | 0.787 | 20 | 0.370 | 168 | 8,000 | 35500 | 13,900 | 62000 | 2.284 | 58 | 8500 |
| RNAO 50x65x40 | 1.969 | 50 | 2.559 | 65 | 1.575 | 40 | 0.783 | 355 | 13,700 | 61000 | 28,000 | 124000 | 2.284 | 58 | 8500 |
| RNAO 55x68x20 | 2.165 | 55 | 2.677 | 68 | 0.787 | 20 | 0.366 | 166 | 6,400 | 28500 | 14,800 | 66000 | 2.362 | 60 | 8000 |
| RNAO 60x78x20 | 2.362 | 60 | 3.071 | 78 | 0.787 | 20 | 0.562 | 255 | 9,800 | 43500 | 19,100 | 85000 | 2.677 | 68 | 7000 |

# Precision Needle Bearings
## RNAO SERIES

- Without inner rings
- Without ribs
- Ground raceways
- Metric series



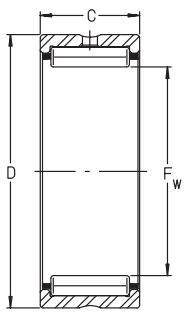

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | E inch | E mm | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RNAO 60x78x40 | 2.362 | 60 | 3.071 | 78 | 1.575 | 40 | 0.959 | 435 | 16,900 | 75000 | 38,500 | 171000 | 2.677 | 68 | 7000 |
| RNAO 65x85x30 | 2.559 | 65 | 3.347 | 85 | 1.181 | 30 | 1.023 | 464 | 12,800 | 57000 | 27,500 | 123000 | 2.874 | 73 | 6500 |
| RNAO 70x90x30 | 2.756 | 70 | 3.543 | 90 | 1.181 | 30 | 1.100 | 499 | 13,500 | 60000 | 30,500 | 135000 | 3.071 | 78 | 6000 |
| RNAO 80x100x30 | 3.150 | 80 | 3.937 | 100 | 1.181 | 30 | 1.279 | 580 | 16,200 | 72000 | 40,000 | 179000 | 3.465 | 88 | 5500 |
| RNAO 85x105x25 | 3.347 | 85 | 4.134 | 105 | 0.984 | 25 | 1.012 | 459 | 12,800 | 57000 | 30,500 | 136000 | 3.661 | 93 | 5000 |
| RNAO 90x105x26 | 3.543 | 90 | 4.134 | 105 | 1.024 | 26 | 0.822 | 373 | 13,700 | 61000 | 33,500 | 150000 | 3.858 | 98 | 5000 |
| RNAO 90x110x30 | 3.543 | 90 | 4.331 | 110 | 1.181 | 30 | 1.345 | 610 | 15,300 | 68000 | 38,500 | 172000 | 3.858 | 98 | 4900 |
| RNAO 100x120x30 | 3.937 | 100 | 4.724 | 120 | 1.181 | 30 | 1.530 | 694 | 16,000 | 71000 | 42,500 | 188000 | 4.252 | 108 | 4500 |

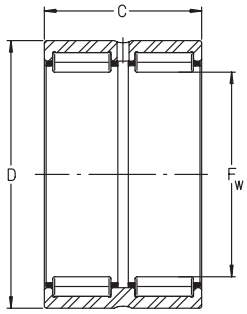
# Precision Needle Bearings

## NCS, NK, NKS, RNA48, RNA49, RNA69 SERIES

- Without inner rings
- Inch and metric
- Ground raceways with ribs
- Cage guided rollers




NCS, NK, RNA48, NKS




RNA69

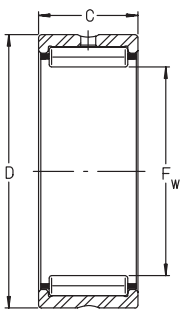
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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NK 5/10 TN | 0.197 | 5 | 0.394 | 10 | 0.394 | 10 | 0.007 | 3.1 | 530 | 2350 | 430 | 1920 | 37000 |
| NK 5/12 TN | 0.197 | 5 | 0.394 | 10 | 0.472 | 12 | 0.008 | 3.7 | 670 | 3000 | 600 | 2650 | 37000 |
| NK 6/10 TN | 0.236 | 6 | 0.472 | 12 | 0.394 | 10 | 0.01 | 4.7 | 590 | 2600 | 510 | 2280 | 33000 |
| NK 6/12 TN | 0.236 | 6 | 0.472 | 12 | 0.472 | 12 | 0.013 | 5.7 | 750 | 3350 | 710 | 3150 | 33000 |
| NK 7/10 TN | 0.276 | 7 | 0.551 | 14 | 0.394 | 10 | 0.015 | 6.9 | 640 | 2850 | 600 | 2650 | 31000 |
| NK 7/12 TN | 0.276 | 7 | 0.551 | 14 | 0.472 | 12 | 0.018 | 8.2 | 820 | 3650 | 810 | 3600 | 31000 |
| NK 8/12 TN | 0.315 | 8 | 0.591 | 15 | 0.472 | 12 | 0.019 | 8.7 | 890 | 3950 | 920 | 4100 | 29000 |
| NK 8/16 TN | 0.315 | 8 | 0.591 | 15 | 0.630 | 16 | 0.026 | 12 | 1,150 | 5100 | 1,300 | 5800 | 29000 |
| NK 9/12 TN | 0.354 | 9 | 0.630 | 16 | 0.472 | 12 | 0.023 | 10.3 | 1,010 | 4500 | 1,120 | 5000 | 28000 |
| NK 9/16 TN | 0.354 | 9 | 0.630 | 16 | 0.630 | 16 | 0.028 | 12.8 | 1,330 | 5900 | 1,600 | 7100 | 28000 |
| NK 10/12 TN | 0.394 | 10 | 0.669 | 17 | 0.472 | 12 | 0.022 | 10.1 | 1,070 | 4750 | 1,240 | 5500 | 27000 |
| NK 10/16 TN | 0.394 | 10 | 0.669 | 17 | 0.630 | 16 | 0.029 | 13.3 | 1,390 | 6200 | 1,750 | 7800 | 27000 |
| NK 12/12 | 0.472 | 12 | 0.748 | 19 | 0.472 | 12 | 0.027 | 12.1 | 1,440 | 6400 | 1,600 | 7100 | 25000 |
| NK 12/16 | 0.472 | 12 | 0.748 | 19 | 0.630 | 16 | 0.035 | 15.9 | 2,020 | 9000 | 2,470 | 11000 | 25000 |
| RNA 4900 | 0.551 | 14 | 0.866 | 22 | 0.512 | 13 | 0.036 | 16.5 | 1,910 | 8500 | 2,070 | 9200 | 25000 |
| NK 14/16 | 0.551 | 14 | 0.866 | 22 | 0.630 | 16 | 0.046 | 20.7 | 2,270 | 10100 | 2,600 | 11500 | 24000 |
| NK 14/20 | 0.551 | 14 | 0.866 | 22 | 0.787 | 20 | 0.056 | 25.5 | 2,900 | 12800 | 3,500 | 15600 | 24000 |
| NK 15/16 | 0.591 | 15 | 0.906 | 23 | 0.630 | 16 | 0.048 | 21.8 | 2,410 | 10700 | 2,850 | 12700 | 23000 |
| NK 15/20 | 0.591 | 15 | 0.906 | 23 | 0.787 | 20 | 0.059 | 26.6 | 3,050 | 13600 | 3,850 | 17200 | 23000 |
| NCS 1012 | 0.625 | 15.875 | 1.125 | 28.575 | 0.750 | 19.05 | 0.11 | 50 | 3700 | 16400 | 3750 | 16700 | 22000 |
| NCS 1016 | 0.625 | 15.875 | 1.125 | 28.575 | 1.000 | 25.4 | 0.15 | 68 | 4750 | 21100 | 5200 | 23000 | 22000 |
| RNA 4901 | 0.630 | 16 | 0.945 | 24 | 0.512 | 13 | 0.038 | 17.4 | 2,110 | 9400 | 2,450 | 10900 | 24000 |
| NK 16/16 | 0.630 | 16 | 0.945 | 24 | 0.630 | 16 | 0.049 | 22.4 | 2,550 | 11300 | 3,150 | 13900 | 22000 |
| NK 16/20 | 0.630 | 16 | 0.945 | 24 | 0.787 | 20 | 0.063 | 28.4 | 3,250 | 14400 | 4,250 | 18800 | 22000 |
| RNA 6901 | 0.630 | 16 | 0.945 | 24 | 0.866 | 22 | 0.068 | 31 | 3,600 | 16000 | 4,850 | 21600 | 22000 |
| NK 17/16 | 0.669 | 17 | 0.984 | 25 | 0.630 | 16 | 0.052 | 23.7 | 2,700 | 11900 | 3,350 | 15000 | 22000 |
| NK 17/20 | 0.669 | 17 | 0.984 | 25 | 0.787 | 20 | 0.066 | 29.8 | 3,400 | 15100 | 4,600 | 20400 | 22000 |
| NK 18/16 | 0.709 | 18 | 1.024 | 26 | 0.630 | 16 | 0.055 | 24.9 | 2,800 | 12500 | 3,650 | 16200 | 21000 |
| NK 18/20 | 0.709 | 18 | 1.024 | 26 | 0.787 | 20 | 0.069 | 31.4 | 3,550 | 15800 | 4,950 | 22000 | 21000 |
| NK 19/16 | 0.748 | 19 | 1.063 | 27 | 0.630 | 16 | 0.058 | 26.1 | 2,900 | 13000 | 3,900 | 17400 | 21000 |
| NK 19/20 | 0.748 | 19 | 1.063 | 27 | 0.787 | 20 | 0.071 | 32.2 | 3,700 | 16500 | 5,300 | 23600 | 21000 |
| NCS 1212 | 0.750 | 19.05 | 1.250 | 31.75 | 0.750 | 19.05 | 0.12 | 54 | 4600 | 20400 | 5200 | 23000 | 21000 |
| NCS 1216 | 0.750 | 19.05 | 1.250 | 31.75 | 1.000 | 25.4 | 0.16 | 73 | 5900 | 26000 | 7100 | 32000 | 21000 |
| RNA 4902 | 0.787 | 20 | 1.102 | 28 | 0.512 | 13 | 0.048 | 21.7 | 2,380 | 10600 | 3,050 | 13600 | 22000 |
| NK 20/16 | 0.787 | 20 | 1.102 | 28 | 0.630 | 16 | 0.06 | 27 | 2,900 | 13000 | 3,950 | 17500 | 20000 |
| NK 20/20 | 0.787 | 20 | 1.102 | 28 | 0.787 | 20 | 0.075 | 33.9 | 3,700 | 16400 | 5,400 | 23800 | 20000 |
| RNA 6902 | 0.787 | 20 | 1.102 | 28 | 0.906 | 23 | 0.088 | 39.7 | 3,900 | 17300 | 5,700 | 25500 | 20000 |
| NKS 20 | 0.787 | 20 | 1.260 | 32 | 0.787 | 20 | 0.107 | 48.7 | 5,200 | 23000 | 5,600 | 25000 | 19000 |
| NK 21/16 | 0.827 | 21 | 1.142 | 29 | 0.630 | 16 | 0.062 | 28.1 | 3,050 | 13500 | 4,200 | 18700 | 20000 |
| NK 21/20 | 0.827 | 21 | 1.142 | 29 | 0.787 | 20 | 0.078 | 35.2 | 3,850 | 17100 | 5,700 | 25500 | 20000 |
| RNA 4903 | 0.866 | 22 | 1.181 | 30 | 0.512 | 13 | 0.049 | 22.2 | 2,470 | 11000 | 3,300 | 14600 | 21000 |
| NK 22/16 | 0.866 | 22 | 1.181 | 30 | 0.630 | 16 | 0.066 | 30 | 3,150 | 14000 | 4,450 | 19900 | 19000 |
| NK 22/20 | 0.866 | 22 | 1.181 | 30 | 0.787 | 20 | 0.082 | 37 | 4,000 | 17700 | 6,100 | 27000 | 19000 |
| RNA 6903 | 0.866 | 22 | 1.181 | 30 | 0.906 | 23 | 0.093 | 42.4 | 4,200 | 18600 | 6,500 | 29000 | 19000 |
| NKS 22 | 0.866 | 22 | 1.378 | 35 | 0.787 | 20 | 0.135 | 61.5 | 5,500 | 24500 | 6,300 | 28000 | 17000 |
| NCS 1412 | 0.875 | 22.225 | 1.375 | 34.925 | 0.750 | 19.05 | 0.13 | 59 | 5,100 | 22800 | 6200 | 27500 | 19000 |

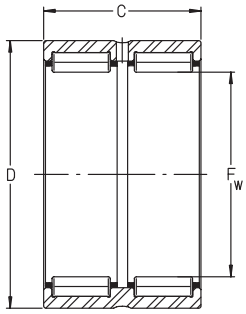
# Precision Needle Bearings

## NCS, NK, NKS, RNA48, RNA49, RNA69 SERIES

- Without inner rings
- Inch and metric
- Ground raceways with ribs
- Cage guided rollers




NCS, NK, RNA48, NKS




RNA69

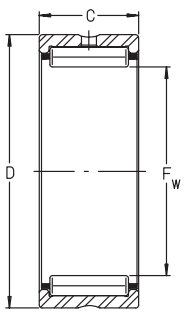
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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NCS 1416 | 0.875 | 22.225 | 1.375 | 34.925 | 1.000 | 25.4 | 0.18 | 82 | 6600 | 29500 | 8500 | 38000 | 19000 |
| NCS 1512 | 0.938 | 23.813 | 1.438 | 36.513 | 0.750 | 19.05 | 0.14 | 63 | 5400 | 23900 | 6700 | 30000 | 18000 |
| NK 24/16 | 0.945 | 24 | 1.260 | 32 | 0.630 | 16 | 0.07 | 31.9 | 3,350 | 15000 | 5,000 | 22300 | 18000 |
| NK 24/20 | 0.945 | 24 | 1.260 | 32 | 0.787 | 20 | 0.088 | 40 | 4,250 | 19000 | 6,900 | 30500 | 18000 |
| NKS 24 | 0.945 | 24 | 1.457 | 37 | 0.787 | 20 | 0.144 | 65.5 | 5,800 | 26000 | 7,000 | 31000 | 16000 |
| NK 25/16 | 0.984 | 25 | 1.299 | 33 | 0.630 | 16 | 0.072 | 32.6 | 3,350 | 14900 | 5,000 | 22400 | 17000 |
| NK 25/20 | 0.984 | 25 | 1.299 | 33 | 0.787 | 20 | 0.093 | 42 | 4,250 | 18800 | 6,900 | 30500 | 17000 |
| RNA 4904 | 0.984 | 25 | 1.457 | 37 | 0.669 | 17 | 0.115 | 52.3 | 4,700 | 21000 | 5,700 | 25500 | 17000 |
| RNA 6904 | 0.984 | 25 | 1.457 | 37 | 1.181 | 30 | 0.221 | 100 | 8,100 | 36000 | 11,500 | 51000 | 16000 |
| NKS 25 | 0.984 | 25 | 1.496 | 38 | 0.787 | 20 | 0.150 | 68.1 | 6,200 | 27500 | 7500 | 33500 | 16000 |
| NCS 1612 | 1.000 | 25.4 | 1.500 | 38.1 | 0.750 | 19.05 | 0.15 | 68 | 5300 | 23800 | 6800 | 30000 | 17000 |
| NCS 1616 | 1.000 | 25.4 | 1.500 | 38.1 | 1.000 | 25.4 | 0.2 | 91 | 7200 | 32000 | 10000 | 44500 | 17000 |
| NK 26/16 | 1.024 | 26 | 1.339 | 34 | 0.630 | 16 | 0.075 | 34 | 3,450 | 15300 | 5,300 | 23600 | 16000 |
| NK 26/20 | 1.024 | 26 | 1.339 | 34 | 0.787 | 20 | 0.093 | 42 | 4,350 | 19400 | 7,200 | 32000 | 16000 |
| NK 28/20 | 1.102 | 28 | 1.457 | 37 | 0.787 | 20 | 0.115 | 52.2 | 4,950 | 22000 | 7,600 | 34000 | 15000 |
| NK 28/30 | 1.102 | 28 | 1.457 | 37 | 1.181 | 30 | 0.181 | 82 | 7,400 | 33000 | 12,800 | 57000 | 15000 |
| RNA 49/22 | 1.102 | 28 | 1.535 | 39 | 0.669 | 17 | 0.111 | 50.2 | 5,100 | 22800 | 6,600 | 29500 | 16000 |
| RNA 69/22 | 1.102 | 28 | 1.535 | 39 | 1.181 | 30 | 0.216 | 98 | 8,400 | 37500 | 12,400 | 55000 | 15000 |
| NKS 28 | 1.102 | 28 | 1.654 | 42 | 0.787 | 20 | 0.184 | 83.6 | 6,400 | 28500 | 8,200 | 36500 | 14000 |
| NCS 1816 | 1.125 | 28.575 | 1.625 | 41.275 | 1.000 | 25.4 | 0.22 | 100 | 7100 | 31500 | 10100 | 45000 | 15000 |
| NCS 1820 | 1.125 | 28.575 | 1.625 | 41.275 | 1.250 | 31.75 | 0.28 | 127 | 10000 | 44500 | 15700 | 70000 | 15000 |
| NK 29/20 | 1.142 | 29 | 1.496 | 38 | 0.787 | 20 | 0.118 | 53.7 | 4,900 | 21900 | 7,600 | 34000 | 15000 |
| NK 29/30 | 1.142 | 29 | 1.496 | 38 | 1.181 | 30 | 0.186 | 84.3 | 7,300 | 32500 | 12,800 | 57000 | 15000 |
| NK 30/20 | 1.181 | 30 | 1.575 | 40 | 0.787 | 20 | 0.143 | 65 | 5,100 | 22600 | 8,100 | 36000 | 14000 |
| NK 30/30 | 1.181 | 30 | 1.575 | 40 | 1.181 | 30 | 0.216 | 97.9 | 7,500 | 33500 | 13,500 | 60000 | 14000 |
| RNA 4905 | 1.181 | 30 | 1.654 | 42 | 0.669 | 17 | 0.135 | 61 | 5,300 | 23600 | 7,100 | 31500 | 15000 |
| RNA 6905 | 1.181 | 30 | 1.654 | 42 | 1.181 | 30 | 0.247 | 112 | 8,800 | 39000 | 13,300 | 59000 | 14000 |
| NKS 30 | 1.181 | 30 | 1.772 | 45 | 0.866 | 22 | 0.229 | 104 | 7,100 | 32000 | 9,000 | 40000 | 13000 |
| NCS 2012 | 1.250 | 31.75 | 1.750 | 44.45 | 0.750 | 19.05 | 0.18 | 82 | 6000 | 26500 | 8300 | 37000 | 14000 |
| NCS 2016 | 1.250 | 31.75 | 1.750 | 44.45 | 1.000 | 25.4 | 0.24 | 109 | 7700 | 34000 | 11500 | 51000 | 14000 |
| NCS 2020 | 1.250 | 31.75 | 1.750 | 44.45 | 1.250 | 31.75 | 0.3 | 136 | 9900 | 44000 | 15900 | 71000 | 14000 |
| NK 32/20 | 1.260 | 32 | 1.654 | 42 | 0.787 | 20 | 0.15 | 68 | 5,200 | 23100 | 8,400 | 37500 | 13000 |
| NK 32/30 | 1.260 | 32 | 1.654 | 42 | 1.181 | 30 | 0.225 | 102 | 7,800 | 34500 | 14,200 | 63000 | 13000 |
| RNA 49/28 | 1.260 | 32 | 1.772 | 45 | 0.669 | 17 | 0.161 | 73.2 | 5,500 | 24400 | 7,500 | 33500 | 13000 |
| RNA 69/28 | 1.260 | 32 | 1.772 | 45 | 1.181 | 30 | 0.298 | 135 | 9,100 | 40500 | 14,200 | 63000 | 13000 |
| NKS 32 | 1.260 | 32 | 1.850 | 47 | 0.866 | 22 | 0.242 | 110 | 7,500 | 33500 | 10,000 | 43500 | 12000 |
| NCS 2216 | 1.375 | 34.925 | 1.875 | 47.625 | 1.000 | 25.4 | 0.26 | 118 | 8200 | 36500 | 12900 | 57000 | 13000 |
| NCS 2220 | 1.375 | 34.925 | 1.875 | 47.625 | 1.250 | 31.75 | 0.33 | 150 | 11000 | 49000 | 18800 | 84000 | 13000 |
| NK 35/20 | 1.378 | 35 | 1.772 | 45 | 0.787 | 20 | 0.163 | 73.8 | 5,500 | 24300 | 9,300 | 41500 | 12000 |
| NK 35/30 | 1.378 | 35 | 1.772 | 45 | 1.181 | 30 | 0.247 | 112 | 8,200 | 36500 | 15,500 | 69000 | 12000 |
| RNA 4906 | 1.378 | 35 | 1.850 | 47 | 0.669 | 17 | 0.153 | 69.4 | 5,600 | 25000 | 8,000 | 35500 | 13000 |
| RNA 6906 | 1.378 | 35 | 1.850 | 47 | 1.181 | 30 | 0.278 | 126 | 9,800 | 43500 | 16,000 | 71000 | 12000 |
| NKS 35 | 1.378 | 35 | 1.969 | 50 | 0.866 | 22 | 0.260 | 118 | 8,000 | 35000 | 10,500 | 47000 | 12000 |
| NK 37/20 | 1.457 | 37 | 1.850 | 47 | 0.787 | 20 | 0.17 | 77 | 5,600 | 24900 | 9,800 | 43500 | 12000 |
| NK 37/30 | 1.457 | 37 | 1.850 | 47 | 1.181 | 30 | 0.249 | 113 | 8,300 | 37000 | 16,400 | 73000 | 12000 |
| NKS 37 | 1.457 | 37 | 2.047 | 52 | 0.866 | 22 | 0.271 | 123 | 8,200 | 36500 | 11,200 | 50000 | 11000 |

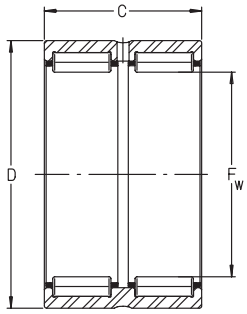
# Precision Needle Bearings

## NCS, NK, NKS, RNA48, RNA49, RNA69 SERIES

- Without inner rings
- Inch and metric
- Ground raceways with ribs
- Cage guided rollers




NCS, NK, RNA48, NKS




RNA69

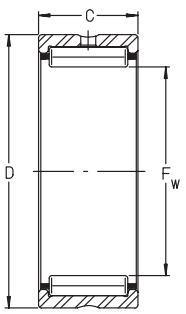
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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NK 38/20 | 1.496 | 38 | 1.890 | 48 | 0.787 | 20 | 0.175 | 79.4 | 5,700 | 25500 | 10,100 | 45000 | 11000 |
| NK 38/30 | 1.496 | 38 | 1.890 | 48 | 1.181 | 30 | 0.256 | 116 | 8,500 | 38000 | 17,100 | 76000 | 11000 |
| NCS 2416 | 1.500 | 38.1 | 2.063 | 52.388 | 1.000 | 25.4 | 0.34 | 154 | 8400 | 37500 | 13700 | 61000 | 12000 |
| NCS 2420 | 1.500 | 38.1 | 2.063 | 52.388 | 1.250 | 31.75 | 0.42 | 190 | 12600 | 56000 | 20400 | 91000 | 11000 |
| NK 40/20 | 1.575 | 40 | 1.969 | 50 | 0.787 | 20 | 0.182 | 82.7 | 5,800 | 26000 | 10,600 | 47000 | 11000 |
| NK 40/30 | 1.575 | 40 | 1.969 | 50 | 1.181 | 30 | 0.276 | 125 | 8,800 | 39000 | 17,800 | 79000 | 11000 |
| RNA 49/32 | 1.575 | 40 | 2.047 | 52 | 0.787 | 20 | 0.196 | 89.1 | 6,900 | 30500 | 10,700 | 47500 | 12000 |
| RNA 69/32 | 1.575 | 40 | 2.047 | 52 | 1.417 | 36 | 0.357 | 162 | 10,600 | 47000 | 18,400 | 82000 | 11000 |
| NKS 40 | 1.575 | 40 | 2.165 | 55 | 0.866 | 22 | 0.284 | 129 | 8,500 | 38000 | 12,100 | 54000 | 10000 |
| NCS 2616 | 1.625 | 41.275 | 2.188 | 55.563 | 1.000 | 25.4 | 0.36 | 163 | 10500 | 47000 | 16600 | 74000 | 11000 |
| NCS 2620 | 1.625 | 41.275 | 2.188 | 55.563 | 1.250 | 31.75 | 0.46 | 209 | 11100 | 49500 | 20000 | 89000 | 11000 |
| NK 42/20 | 1.654 | 42 | 2.047 | 52 | 0.787 | 20 | 0.189 | 85.8 | 6,000 | 26500 | 11,000 | 49000 | 10000 |
| NK 42/30 | 1.654 | 42 | 2.047 | 52 | 1.181 | 30 | 0.287 | 130 | 8,900 | 39500 | 18,400 | 82000 | 10000 |
| RNA 4907 | 1.654 | 42 | 2.165 | 55 | 0.787 | 20 | 0.236 | 107 | 7,100 | 31500 | 11,200 | 50000 | 11000 |
| RNA 6907 | 1.654 | 42 | 2.165 | 55 | 1.417 | 36 | 0.426 | 193 | 10,800 | 48000 | 19,300 | 86000 | 10000 |
| NK 43/20 | 1.693 | 43 | 2.087 | 53 | 0.787 | 20 | 0.19 | 86 | 6,100 | 27000 | 11,500 | 51000 | 10000 |
| NK 43/30 | 1.693 | 43 | 2.087 | 53 | 1.181 | 30 | 0.293 | 133 | 9,100 | 40500 | 19,100 | 85000 | 10000 |
| NKS 43 | 1.693 | 43 | 2.283 | 58 | 0.866 | 22 | 0.306 | 139 | 8,700 | 39000 | 12,800 | 57000 | 9500 |
| NCS 2816 | 1.750 | 44.45 | 2.313 | 58.738 | 1.000 | 25.4 | 0.39 | 177 | 9400 | 42000 | 16500 | 73000 | 10000 |
| NCS 2820 | 1.750 | 44.45 | 2.313 | 58.738 | 1.250 | 31.75 | 0.48 | 218 | 13300 | 59000 | 22800 | 102000 | 10000 |
| NK 45/20 | 1.772 | 45 | 2.165 | 55 | 0.787 | 20 | 0.202 | 91.5 | 6,200 | 27500 | 11,900 | 53000 | 10000 |
| NK 45/30 | 1.772 | 45 | 2.165 | 55 | 1.181 | 30 | 0.306 | 139 | 9,200 | 41000 | 19,800 | 88000 | 10000 |
| NKS 45 | 1.772 | 45 | 2.362 | 60 | 0.866 | 22 | 0.319 | 145 | 9,100 | 40500 | 13,500 | 60000 | 9500 |
| NK 47/20 | 1.850 | 47 | 2.244 | 57 | 0.787 | 20 | 0.208 | 94.5 | 6,400 | 28500 | 12,600 | 56000 | 9500 |
| NK 47/30 | 1.850 | 47 | 2.244 | 57 | 1.181 | 30 | 0.313 | 142 | 9,700 | 43000 | 21,100 | 94000 | 9500 |
| NCS 3016 | 1.875 | 47.625 | 2.438 | 61.913 | 1.000 | 25.4 | 0.41 | 186 | 9600 | 42500 | 17300 | 77000 | 9500 |
| NCS 3020 | 1.875 | 47.625 | 2.438 | 61.913 | 1.250 | 31.75 | 0.51 | 231 | 12000 | 53000 | 23000 | 102000 | 9500 |
| RNA 4908 | 1.890 | 48 | 2.441 | 62 | 0.866 | 22 | 0.309 | 140 | 9,700 | 43000 | 15,100 | 67000 | 9500 |
| RNA 6908 | 1.890 | 48 | 2.441 | 62 | 1.575 | 40 | 0.564 | 256 | 14,800 | 66000 | 26,000 | 116000 | 9000 |
| NK 50/25 | 1.969 | 50 | 2.441 | 62 | 0.984 | 25 | 0.348 | 158 | 8,500 | 38000 | 16,600 | 74000 | 9000 |
| NK 50/35 | 1.969 | 50 | 2.441 | 62 | 1.378 | 35 | 0.487 | 221 | 11,200 | 50000 | 23,800 | 106000 | 9000 |
| NKS 50 | 1.969 | 50 | 2.559 | 65 | 0.866 | 22 | 0.345 | 157 | 9,500 | 42500 | 15,000 | 67000 | 8500 |
| NCS 3216 | 2.000 | 50.8 | 2.563 | 65.088 | 1.000 | 25.4 | 0.39 | 177 | 11400 | 51000 | 18800 | 84000 | 9000 |
| NCS 3220 | 2.000 | 50.8 | 2.563 | 65.088 | 1.250 | 31.75 | 0.5 | 227 | 14300 | 64000 | 26500 | 117000 | 9000 |
| RNA 4909 | 2.047 | 52 | 2.677 | 68 | 0.866 | 22 | 0.401 | 182 | 10,100 | 45000 | 16,400 | 73000 | 8500 |
| RNA 6909 | 2.047 | 52 | 2.677 | 68 | 1.575 | 40 | 0.745 | 338 | 15,500 | 69000 | 28,500 | 127000 | 8000 |
| NK 55/25 | 2.165 | 55 | 2.677 | 68 | 0.984 | 25 | 0.397 | 180 | 9,000 | 40000 | 18,400 | 82000 | 8000 |
| NK 55/35 | 2.165 | 55 | 2.677 | 68 | 1.378 | 35 | 0.551 | 250 | 11,900 | 53000 | 26,500 | 118000 | 8000 |
| NKS55 | 2.165 | 55 | 2.835 | 72 | 0.866 | 22 | 0.486 | 221 | 10,100 | 45000 | 16,600 | 74000 | 7500 |
| NCS 3624 | 2.250 | 57.15 | 3.000 | 76.2 | 1.500 | 38.1 | 0.93 | 422 | 20400 | 91000 | 37500 | 168000 | 7500 |
| RNA 4910 | 2.284 | 58 | 2.835 | 72 | 0.866 | 22 | 0.359 | 163 | 10,600 | 47000 | 18,000 | 80000 | 8000 |
| RNA 6910 | 2.284 | 58 | 2.835 | 72 | 1.575 | 40 | 0.684 | 310 | 16,400 | 73000 | 31,500 | 139000 | 7500 |
| NK 60/25 | 2.362 | 60 | 2.835 | 72 | 0.984 | 25 | 0.408 | 185 | 9,400 | 42000 | 20,200 | 90000 | 7500 |
| NK 60/35 | 2.362 | 60 | 2.835 | 72 | 1.378 | 35 | 0.569 | 258 | 12,600 | 56000 | 29,000 | 130000 | 7500 |
| NKS 60 | 2.362 | 60 | 3.150 | 80 | 1.102 | 28 | 0.737 | 335 | 14,000 | 63000 | 22,000 | 98000 | 7000 |
| RNA 4911 | 2.480 | 63 | 3.150 | 80 | 0.984 | 25 | 0.562 | 255 | 13,000 | 58000 | 22,500 | 100000 | 7500 |

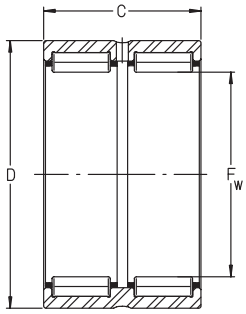
# Precision Needle Bearings

## NCS, NK, NKS, RNA48, RNA49, RNA69 SERIES

- Without inner rings
- Inch and metric
- Ground raceways with ribs
- Cage guided rollers




NCS, NK, RNA48, NKS




RNA69

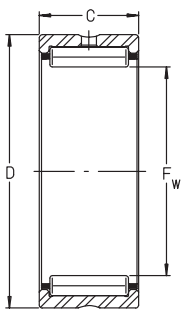
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RNA 6911 | 2.480 | 63 | 3.150 | 80 | 1.772 | 45 | 1.036 | 470 | 20,200 | 90000 | 39,500 | 176000 | 7000 |
| NCS 4024 | 2.500 | 63.5 | 3.250 | 82.55 | 1.500 | 38.1 | 1.04 | 472 | 19800 | 88000 | 34500 | 153000 | 7000 |
| NK 65/25 | 2.559 | 65 | 3.071 | 78 | 0.984 | 25 | 0.487 | 221 | 9,900 | 44000 | 22,000 | 98000 | 7000 |
| NK 65/35 | 2.559 | 65 | 3.071 | 78 | 1.378 | 35 | 0.684 | 310 | 13,300 | 59000 | 32,000 | 142000 | 7000 |
| NKS 65 | 2.559 | 65 | 3.346 | 85 | 1.102 | 28 | 0.783 | 356 | 15,000 | 67000 | 24,300 | 108000 | 6500 |
| NK 68/25 | 2.677 | 68 | 3.228 | 82 | 0.984 | 25 | 0.531 | 241 | 9,800 | 43500 | 20,000 | 89000 | 6500 |
| NK 68/35 | 2.677 | 68 | 3.228 | 82 | 1.378 | 35 | 0.745 | 338 | 13,900 | 62000 | 31,500 | 139000 | 6500 |
| RNA 4912 | 2.677 | 68 | 3.347 | 85 | 0.984 | 25 | 0.606 | 275 | 13,500 | 60000 | 24,300 | 108000 | 7000 |
| RNA 6912 | 2.677 | 68 | 3.347 | 85 | 1.772 | 45 | 1.076 | 488 | 21,100 | 94000 | 43,000 | 191000 | 6500 |
| NCS 4424 | 2.750 | 69.85 | 3.500 | 88.9 | 1.500 | 38.1 | 1.11 | 503 | 22300 | 99000 | 45000 | 201000 | 6500 |
| NK 70/25 | 2.756 | 70 | 3.347 | 85 | 0.984 | 25 | 0.573 | 260 | 10,000 | 44500 | 20,700 | 92000 | 6500 |
| NK 70/35 | 2.756 | 70 | 3.347 | 85 | 1.378 | 35 | 0.816 | 370 | 14,200 | 63000 | 32,500 | 144000 | 6500 |
| NKS 70 | 2.756 | 70 | 3.543 | 90 | 1.102 | 28 | 0.836 | 380 | 15,300 | 68000 | 25,400 | 113000 | 6000 |
| RNA 4913 | 2.835 | 72 | 3.543 | 90 | 0.984 | 25 | 0.688 | 312 | 13,700 | 61000 | 25,000 | 112000 | 6500 |
| RNA 6913 | 2.835 | 72 | 3.543 | 90 | 1.772 | 45 | 1.279 | 580 | 21,400 | 95000 | 44,500 | 198000 | 6000 |
| NK 73/25 | 2.874 | 73 | 3.543 | 90 | 0.984 | 25 | 0.666 | 302 | 11,900 | 53000 | 22,500 | 100000 | 6000 |
| NK 73/35 | 2.874 | 73 | 3.543 | 90 | 1.378 | 35 | 0.944 | 428 | 16,900 | 75000 | 35,000 | 156000 | 6000 |
| NK 75/25 | 2.953 | 75 | 3.622 | 92 | 0.984 | 25 | 0.695 | 315 | 12,100 | 54000 | 23,400 | 104000 | 6000 |
| NK 75/35 | 2.953 | 75 | 3.622 | 92 | 1.378 | 35 | 0.981 | 445 | 17,300 | 77000 | 36,500 | 162000 | 6000 |
| NKS 75 | 2.953 | 75 | 3.740 | 90 | 1.102 | 28 | 0.884 | 402 | 16,000 | 71000 | 27,700 | 123000 | 6000 |
| NCS 4824 | 3.000 | 76.2 | 3.750 | 95.25 | 1.500 | 38.1 | 1.23 | 558 | 21900 | 98000 | 41500 | 194000 | 6000 |
| NK 80/25 | 3.150 | 80 | 3.740 | 95 | 0.984 | 25 | 0.664 | 301 | 12,600 | 56000 | 27,000 | 119000 | 5500 |
| NK 80/35 | 3.150 | 80 | 3.740 | 95 | 1.378 | 35 | 0.937 | 425 | 17,500 | 78000 | 41,500 | 184000 | 5500 |
| RNA 4914 | 3.150 | 80 | 3.937 | 100 | 1.181 | 30 | 1.014 | 460 | 18,900 | 84000 | 35,000 | 156000 | 6000 |
| RNA 6914 | 3.150 | 80 | 3.937 | 100 | 2.126 | 54 | 1.89 | 857 | 29,000 | 128000 | 60,000 | 265000 | 5500 |
| NCS 5228 | 3.250 | 82.55 | 4.250 | 107.95 | 1.750 | 44.45 | 2.12 | 961 | 29500 | 131000 | 54000 | 240000 | 5500 |
| NCS 5232 | 3.250 | 82.55 | 4.250 | 107.95 | 2.000 | 50.8 | 2.43 | 1102 | 33500 | 149000 | 63000 | 280000 | 5500 |
| NK 85/25 | 3.347 | 85 | 4.134 | 105 | 0.984 | 25 | 0.937 | 425 | 15,500 | 69000 | 27,500 | 123000 | 5000 |
| RNA 4915 | 3.347 | 85 | 4.134 | 105 | 1.181 | 30 | 1.078 | 489 | 19,300 | 86000 | 36,500 | 162000 | 5500 |
| NK 85/35 | 3.347 | 85 | 4.134 | 105 | 1.378 | 35 | 1.323 | 600 | 22,000 | 98000 | 43,500 | 193000 | 5000 |
| RNA 6915 | 3.347 | 85 | 4.134 | 105 | 2.126 | 54 | 2.062 | 935 | 29,000 | 130000 | 62,000 | 275000 | 5000 |
| NCS 5632 | 3.500 | 88.9 | 4.500 | 114.3 | 2.000 | 50.8 | 2.57 | 1166 | 34500 | 152000 | 67000 | 295000 | 5000 |
| NK 90/25 | 3.543 | 90 | 4.331 | 110 | 0.984 | 25 | 0.992 | 450 | 16,200 | 72000 | 29,500 | 132000 | 4900 |
| RNA 4916 | 3.543 | 90 | 4.331 | 110 | 1.181 | 30 | 1.138 | 516 | 20,000 | 89000 | 39,000 | 174000 | 5000 |
| NK 90/35 | 3.543 | 90 | 4.331 | 110 | 1.378 | 35 | 1.389 | 630 | 23,200 | 103000 | 47,000 | 208000 | 4900 |
| RNA 6916 | 3.543 | 90 | 4.331 | 110 | 2.126 | 54 | 2.176 | 987 | 30,500 | 135000 | 67,000 | 300000 | 4900 |
| NK 95/26 | 3.740 | 95 | 4.528 | 115 | 1.024 | 26 | 1.08 | 490 | 16,400 | 73000 | 31,000 | 137000 | 4700 |
| NK 95/36 | 3.740 | 95 | 4.528 | 115 | 1.417 | 36 | 1.499 | 680 | 24,100 | 107000 | 50,000 | 223000 | 4700 |
| NK 100/26 | 3.937 | 100 | 4.724 | 120 | 1.024 | 26 | 1.136 | 515 | 17,100 | 76000 | 33,000 | 146000 | 4500 |
| RNA 4917 | 3.937 | 100 | 4.724 | 120 | 1.378 | 35 | 1.449 | 657 | 25,000 | 111000 | 53,000 | 237000 | 4800 |
| NK 100/36 | 3.937 | 100 | 4.724 | 120 | 1.417 | 36 | 1.577 | 715 | 25,000 | 111000 | 53,000 | 237000 | 4500 |
| RNA 6917 | 3.937 | 100 | 4.724 | 120 | 2.480 | 63 | 2.646 | 1200 | 37,500 | 166000 | 90,000 | 400000 | 4500 |
| NK 105/26 | 4.134 | 105 | 4.921 | 125 | 1.024 | 26 | 1.191 | 540 | 17,500 | 78000 | 35,000 | 155000 | 4300 |
| RNA 4918 | 4.134 | 105 | 4.921 | 125 | 1.378 | 35 | 1.643 | 745 | 25,500 | 114000 | 56,000 | 250000 | 4600 |
| NK 105/36 | 4.134 | 105 | 4.921 | 125 | 1.417 | 36 | 1.572 | 713 | 25,500 | 114000 | 56,000 | 250000 | 4300 |
| RNA 6918 | 4.134 | 105 | 4.921 | 125 | 2.480 | 63 | 2.933 | 1330 | 38,500 | 172000 | 96,000 | 425000 | 4300 |

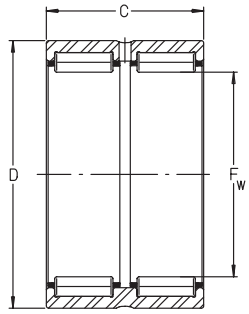
# Precision Needle Bearings

## NCS, NK, NKS, RNA48, RNA49, RNA69 SERIES

- Without inner rings
- Inch and metric
- Ground raceways with ribs
- Cage guided rollers




NCS, NK, RNA48, NKS




RNA69

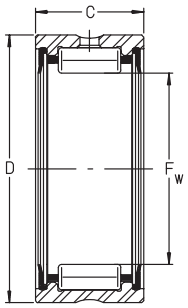
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| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NCS 6832 | 4.250 | 107.95 | 5.250 | 133.35 | 2.000 | 50.8 | 2.91 | 1320 | 44000 | 196000 | 97000 | 430000 | 4200 |
| NK 110/30 | 4.331 | 110 | 5.118 | 130 | 1.181 | 30 | 1.433 | 650 | 22,000 | 98000 | 47,000 | 210000 | 4100 |
| RNA 4919 | 4.331 | 110 | 5.118 | 130 | 1.378 | 35 | 1.585 | 719 | 26,000 | 116000 | 58,000 | 260000 | 4400 |
| NK 110/40 | 4.331 | 110 | 5.118 | 130 | 1.575 | 40 | 1.83 | 830 | 28,500 | 127000 | 65,000 | 290000 | 4100 |
| RNA 6919 | 4.331 | 110 | 5.118 | 130 | 2.480 | 63 | 3.219 | 1460 | 39,000 | 174000 | 99,000 | 440000 | 4100 |
| NCS 7240 | 4.500 | 114.3 | 6.000 | 152.4 | 2.500 | 63.5 | 4.16 | 1887 | 64000 | 285000 | 115000 | 510000 | 3800 |
| RNA 4920 | 4.528 | 115 | 5.512 | 140 | 1.575 | 40 | 2.536 | 1150 | 29,000 | 128000 | 61,000 | 270000 | 4100 |
| RNA 4822 | 4.724 | 120 | 5.512 | 140 | 1.181 | 30 | 1.477 | 670 | 21,100 | 94000 | 48,500 | 216000 | 3800 |
| NK 120/40 | 4.724 | 120 | 5.512 | 140 | 1.575 | 40 | 2.007 | 910 | 25,500 | 113000 | 62,000 | 275000 | 3800 |
| RNA 4922 | 4.921 | 125 | 5.906 | 150 | 1.575 | 40 | 2.734 | 1240 | 29,500 | 132000 | 65,000 | 290000 | 3800 |
| RNA 4824 | 5.118 | 130 | 5.906 | 150 | 1.181 | 30 | 1.61 | 730 | 22,300 | 99000 | 54,000 | 239000 | 3500 |
| RNA 4924 | 5.315 | 135 | 6.496 | 165 | 1.772 | 45 | 4.101 | 1860 | 40,500 | 181000 | 88,000 | 390000 | 3400 |
| RNA 4826 | 5.709 | 145 | 6.496 | 165 | 1.378 | 35 | 2.183 | 990 | 26,500 | 118000 | 70,000 | 310000 | 3200 |
| RNA 4926 | 5.906 | 150 | 7.087 | 180 | 1.969 | 50 | 4.873 | 2210 | 45,500 | 203000 | 106,000 | 470000 | 3200 |
| RNA 4828 | 6.102 | 155 | 6.890 | 175 | 1.378 | 35 | 2.315 | 1050 | 27,000 | 120000 | 73,000 | 325000 | 3000 |
| NK 155/32 | 6.102 | 155 | 7.087 | 180 | 1.260 | 32 | 2.646 | 1200 | 25,500 | 114000 | 58,000 | 260000 | 2900 |
| RNA 4928 | 6.299 | 160 | 7.480 | 190 | 1.969 | 50 | 5.182 | 2350 | 47,000 | 209000 | 112,000 | 500000 | 3000 |
| RNA 4830 | 6.496 | 165 | 7.480 | 190 | 1.575 | 40 | 3.528 | 1600 | 34,000 | 152000 | 90,000 | 400000 | 2800 |
| RNA 4832 | 6.890 | 175 | 7.874 | 200 | 1.575 | 40 | 3.749 | 1700 | 36,000 | 160000 | 98,000 | 435000 | 2600 |
| RNA 4834 | 7.284 | 185 | 8.465 | 215 | 1.772 | 45 | 5.601 | 2540 | 41,500 | 185000 | 115,000 | 510000 | 2500 |
| RNA 4836 | 7.677 | 195 | 8.858 | 225 | 1.772 | 45 | 5.909 | 2680 | 43,500 | 194000 | 124,000 | 550000 | 2300 |
| RNA 4838 | 8.268 | 210 | 9.449 | 240 | 1.969 | 50 | 7.078 | 3210 | 51,000 | 227000 | 155,000 | 690000 | 2200 |
| RNA 4840 | 8.661 | 220 | 9.843 | 250 | 1.969 | 50 | 7.387 | 3350 | 52,000 | 230000 | 162,000 | 720000 | 2100 |
| RNA 4844 | 9.449 | 240 | 10.630 | 270 | 1.969 | 50 | 7.982 | 3620 | 55,000 | 243000 | 178,000 | 790000 | 1900 |
| RNA 4848 | 10.433 | 265 | 11.811 | 300 | 2.362 | 60 | 11.907 | 5400 | 80,000 | 355000 | 243,000 | 1080000 | 1700 |
| RNA 4852 | 11.221 | 285 | 12.598 | 320 | 2.362 | 60 | 12.789 | 5800 | 83,000 | 370000 | 260,000 | 1160000 | 1600 |
| RNA 4856 | 12.008 | 305 | 13.780 | 350 | 2.717 | 69 | 20.507 | 9300 | 101,000 | 450000 | 290,000 | 1300000 | 1500 |
| RNA 4860 | 12.992 | 330 | 14.961 | 380 | 3.150 | 80 | 28.004 | 12700 | 139,000 | 620000 | 400,000 | 1770000 | 1400 |
| RNA 4864 | 13.780 | 350 | 15.748 | 400 | 3.150 | 80 | 29.547 | 13400 | 142,000 | 630000 | 415,000 | 1850000 | 1300 |
| RNA 4868 | 14.567 | 370 | 16.535 | 420 | 3.150 | 80 | 30.87 | 14000 | 144,000 | 640000 | 435,000 | 1940000 | 1200 |
| RNA 4872 | 15.354 | 390 | 17.323 | 440 | 3.150 | 80 | 32.634 | 14800 | 148,000 | 660000 | 455,000 | 2020000 | 1200 |
| RNA 4876 | 16.339 | 415 | 18.898 | 480 | 3.937 | 100 | 57.33 | 26000 | 225,000 | 1000000 | 650,000 | 2900000 | 1100 |

# Precision Needle Bearings

## RNA49..RS, RNA49..2RS SERIES

- Without inner rings
- Sealed

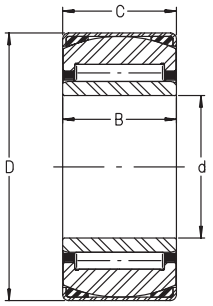



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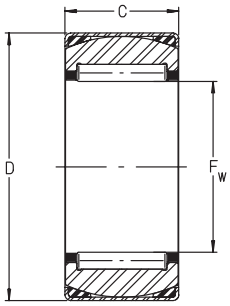
| PART NUMBER | PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RNA 4900 2RS | RNA 4900 RS | 0.551 | 14 | 0.866 | 22 | 0.512 | 13 | 0.035 | 16 | 1,530 | 6800 | 1,550 | 6900 | 13000 |
| RNA 4901 2RS | RNA 4901 RS | 0.630 | 16 | 0.945 | 24 | 0.512 | 13 | 0.04 | 18 | 1,710 | 7600 | 1,870 | 8300 | 12000 |
| RNA 4902 2RS | RNA 4902 RS | 0.787 | 20 | 1.102 | 28 | 0.512 | 13 | 0.047 | 21.5 | 1,930 | 8600 | 2,320 | 10300 | 10000 |
| RNA 4903 2RS | RNA 4903 RS | 0.866 | 22 | 1.181 | 30 | 0.512 | 13 | 0.051 | 23 | 1,980 | 8800 | 2,470 | 11000 | 9000 |
| RNA 4904 2RS | RNA 4904 RS | 0.984 | 25 | 1.457 | 37 | 0.669 | 17 | 0.123 | 56 | 3,900 | 17300 | 4,450 | 19900 | 7500 |
| RNA 4905 2RS | RNA 4905 RS | 1.181 | 30 | 1.654 | 42 | 0.669 | 17 | 0.132 | 60 | 4,350 | 19300 | 5,400 | 24200 | 6500 |
| RNA 4906 2RS | RNA 4906 RS | 1.378 | 35 | 1.850 | 47 | 0.669 | 17 | 0.152 | 69 | 4,750 | 21100 | 6,400 | 28500 | 5500 |
| RNA 4907 2RS | RNA 4907 RS | 1.654 | 42 | 2.165 | 55 | 0.787 | 20 | 0.236 | 107 | 6,000 | 26500 | 8,900 | 39500 | 4800 |
| RNA 4908 2RS | RNA 4908 RS | 1.890 | 48 | 2.441 | 62 | 0.866 | 22 | 0.34 | 154 | 8,100 | 36000 | 11,900 | 53000 | 4200 |
| RNA 4909 2RS | RNA 4909 RS | 2.047 | 52 | 2.677 | 68 | 0.866 | 22 | 0.346 | 157 | 8,500 | 38000 | 13,300 | 59000 | 3900 |
| RNA 4910 2RS | RNA 4910 RS | 2.284 | 58 | 2.835 | 72 | 0.866 | 22 | 0.353 | 160 | 9,000 | 40000 | 14,400 | 64000 | 3500 |

# Self Aligning Needle Bearings
## PNA, RPNA SERIES

- Metric series
- Self contained aligning adaptor
- for static or initial misalignment
- With or without inner ring



PNA



RPNA

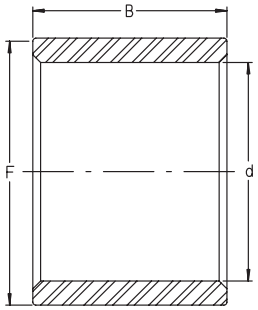
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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WEIGHT lbs | WEIGHT g | DYN. CAP. RADIAL lbf | DYN. CAP. RADIAL N | STAT. CAP. RADIAL lbf | STAT. CAP. RADIAL N | PERM. AXIAL SHIFT inch | PERM. AXIAL SHIFT mm | SPEED LIMIT OIL rpm | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PNA 12/28 | 0.472 | 12 | 1.102 | 28 | 0.472 | 12 | 0.082 | 37 | 1550 | 6900 | 1780 | 7900 | 0.02 | 0.5 | 24000 | 14000 |
| PNA 15/32 | 0.591 | 15 | 1.260 | 32 | 0.630 | 16 | 0.137 | 62 | 2810 | 12500 | 3640 | 16200 | 0.02 | 0.5 | 22000 | 13000 |
| PNA 17/35 | 0.669 | 17 | 1.378 | 35 | 0.630 | 16 | 0.161 | 73 | 2920 | 13000 | 3930 | 17500 | 0.02 | 0.5 | 21000 | 13000 |
| PNA 20/42 | 0.787 | 20 | 1.654 | 42 | 0.787 | 20 | 0.300 | 136 | 4230 | 18800 | 6860 | 30500 | 0.02 | 0.5 | 18000 | 11000 |
| PNA 22/44 | 0.866 | 22 | 1.732 | 44 | 0.787 | 20 | 0.320 | 145 | 4950 | 22000 | 7640 | 34000 | 0.02 | 0.5 | 16000 | 9500 |
| PNA 25/47 | 0.984 | 25 | 1.850 | 47 | 0.787 | 20 | 0.346 | 157 | 5080 | 22600 | 8090 | 36000 | 0.02 | 0.5 | 15000 | 9000 |
| PNA 30/52 | 1.181 | 30 | 2.047 | 52 | 0.787 | 20 | 0.399 | 181 | 5460 | 24300 | 9330 | 41500 | 0.02 | 0.5 | 13000 | 8000 |
| PNA 35/55 | 1.378 | 35 | 2.165 | 55 | 0.787 | 20 | 0.390 | 177 | 5850 | 26000 | 10600 | 47000 | 0.02 | 0.5 | 11000 | 6500 |
| PNA 40/62 | 1.575 | 40 | 2.441 | 62 | 0.787 | 20 | 0.501 | 227 | 6180 | 27500 | 11900 | 53000 | 0.02 | 0.5 | 10000 | 6000 |

| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WEIGHT lbs | WEIGHT g | DYN. CAP. RADIAL lbf | DYN. CAP. RADIAL N | STAT. CAP. RADIAL lbf | STAT. CAP. RADIAL N | PEED LIMIT OIL rpm | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RPNA 15/28 | 0.591 | 15 | 1.102 | 28 | 0.472 | 12 | 0.071 | 32 | 1550 | 6900 | 1780 | 7900 | 24000 | 14000 |
| RPNA 18/32 | 0.709 | 18 | 1.260 | 32 | 0.630 | 16 | 0.115 | 52 | 2810 | 12500 | 3640 | 16200 | 22000 | 13000 |
| RPNA 20/35 | 0.787 | 20 | 1.378 | 35 | 0.630 | 16 | 0.137 | 62 | 2920 | 13000 | 3930 | 17500 | 21000 | 13000 |
| RPNA 25/42 | 0.984 | 25 | 1.654 | 42 | 0.787 | 20 | 0.24 | 109 | 4230 | 18800 | 6860 | 30500 | 18000 | 11000 |
| RPNA 28/44 | 1.102 | 28 | 1.732 | 44 | 0.787 | 20 | 0.247 | 112 | 4950 | 22000 | 7640 | 34000 | 16000 | 9500 |
| RPNA 30/47 | 1.181 | 30 | 1.850 | 47 | 0.787 | 20 | 0.276 | 125 | 5080 | 22600 | 8090 | 36000 | 15000 | 9000 |
| RPNA 35/52 | 1.378 | 35 | 2.047 | 52 | 0.787 | 20 | 0.289 | 131 | 5460 | 24300 | 9330 | 41500 | 13000 | 8000 |
| RPNA 40/55 | 1.575 | 40 | 2.165 | 55 | 0.787 | 20 | 0.311 | 141 | 5850 | 26000 | 10600 | 47000 | 11000 | 6500 |
| RPNA 45/62 | 1.772 | 45 | 2.441 | 62 | 0.787 | 20 | 0.388 | 176 | 6200 | 27500 | 11900 | 53000 | 10000 | 6000 |

# Inner Rings
## IR SERIES

- Metric series
- Hardened
- Precision ground for use with precision needle bearings
- ★ With oil hole included

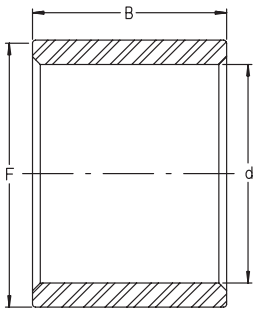



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD F inch | OD F mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT g |
|---|---|---|---|---|---|---|---|---|
| IR 5x8x12 | 0.197 | 5 | 0.315 | 8 | 0.472 | 12 | 0.006 | 2.79 |
| IR 5x8x16 | 0.197 | 5 | 0.315 | 8 | 0.630 | 16 | 0.008 | 3.75 |
| IR 6x9x12 | 0.236 | 6 | 0.354 | 9 | 0.472 | 12 | 0.007 | 3.17 |
| IR 6x9x16 | 0.236 | 6 | 0.354 | 9 | 0.630 | 16 | 0.009 | 4.3 |
| ★IR 6x10x10 | 0.236 | 6 | 0.394 | 10 | 0.394 | 10 | 0.008 | 3.7 |
| ★IR 6x10x12 | 0.236 | 6 | 0.394 | 10 | 0.472 | 12 | 0.01 | 4.6 |
| IR 7x10x10.5 | 0.276 | 7 | 0.394 | 10 | 0.413 | 10.5 | 0.007 | 3.09 |
| IR 7x10x12 | 0.276 | 7 | 0.394 | 10 | 0.472 | 12 | 0.008 | 3.61 |
| IR 7x10x16 | 0.276 | 7 | 0.394 | 10 | 0.630 | 16 | 0.011 | 4.9 |
| ★IR 8x12x10 | 0.315 | 8 | 0.472 | 12 | 0.394 | 10 | 0.011 | 4.8 |
| IR 8x12x10.5 | 0.315 | 8 | 0.472 | 12 | 0.413 | 10.5 | 0.011 | 5 |
| ★IR 8x12x12 | 0.315 | 8 | 0.472 | 12 | 0.472 | 12 | 0.013 | 5.7 |
| IR 8x12x12.5 | 0.315 | 8 | 0.472 | 12 | 0.492 | 12.5 | 0.013 | 5.9 |
| IR 9x12x12 | 0.354 | 9 | 0.472 | 12 | 0.472 | 12 | 0.01 | 4.5 |
| IR 9x12x16 | 0.354 | 9 | 0.472 | 12 | 0.630 | 16 | 0.013 | 6.1 |
| IR 10x13x12.5 | 0.394 | 10 | 0.512 | 13 | 0.492 | 12.5 | 0.011 | 5.2 |
| ★IR 10x14x12 | 0.394 | 10 | 0.551 | 14 | 0.472 | 12 | 0.016 | 7.3 |
| IR 10x14x13 | 0.394 | 10 | 0.551 | 14 | 0.512 | 13 | 0.016 | 7.4 |
| ★IR 10x14x14 | 0.394 | 10 | 0.551 | 14 | 0.551 | 14 | 0.018 | 8 |
| IR 10x14x16 | 0.394 | 10 | 0.551 | 14 | 0.630 | 16 | 0.02 | 9.2 |
| IR 10x14x20 | 0.394 | 10 | 0.551 | 14 | 0.787 | 20 | 0.026 | 11.6 |
| IR 12x15x12 | 0.472 | 12 | 0.591 | 15 | 0.472 | 12 | 0.013 | 5.8 |
| IR 12x15x12.5 | 0.472 | 12 | 0.591 | 15 | 0.492 | 12.5 | 0.013 | 6.1 |
| IR 12x15x16 | 0.472 | 12 | 0.591 | 15 | 0.630 | 16 | 0.018 | 8 |
| IR 12x15x16.5 | 0.472 | 12 | 0.591 | 15 | 0.650 | 16.5 | 0.018 | 8.1 |
| IR 12x15x22.5 | 0.472 | 12 | 0.591 | 15 | 0.886 | 22.5 | 0.024 | 10.9 |
| ★IR 12x16x12 | 0.472 | 12 | 0.630 | 16 | 0.472 | 12 | 0.017 | 7.9 |
| IR 12x16x13 | 0.472 | 12 | 0.630 | 16 | 0.512 | 13 | 0.019 | 8.7 |
| ★IR 12x16x14 | 0.472 | 12 | 0.630 | 16 | 0.551 | 14 | 0.021 | 9.5 |
| IR 12x16x16 | 0.472 | 12 | 0.630 | 16 | 0.630 | 16 | 0.024 | 10.9 |
| IR 12x16x20 | 0.472 | 12 | 0.630 | 16 | 0.787 | 20 | 0.03 | 13.5 |
| IR 12x16x22 | 0.472 | 12 | 0.630 | 16 | 0.866 | 22 | 0.033 | 14.9 |
| IR 14x17x17 | 0.551 | 14 | 0.669 | 17 | 0.669 | 17 | 0.022 | 10 |
| IR 15x18x16 | 0.591 | 15 | 0.709 | 18 | 0.630 | 16 | 0.021 | 9.6 |
| IR 15x18x16.5 | 0.591 | 15 | 0.709 | 18 | 0.650 | 16.5 | 0.022 | 9.9 |
| IR 15x19x16 | 0.591 | 15 | 0.748 | 19 | 0.630 | 16 | 0.028 | 12.8 |
| IR 15x19x20 | 0.591 | 15 | 0.748 | 19 | 0.787 | 20 | 0.036 | 16.4 |
| ★IR 15x20x12 | 0.591 | 15 | 0.787 | 20 | 0.472 | 12 | 0.027 | 12.1 |
| IR 15x20x13 | 0.591 | 15 | 0.787 | 20 | 0.512 | 13 | 0.03 | 13.5 |
| ★IR 15x20x14 | 0.591 | 15 | 0.787 | 20 | 0.551 | 14 | 0.032 | 14.7 |
| IR 15x20x23 | 0.591 | 15 | 0.787 | 20 | 0.906 | 23 | 0.054 | 24.4 |
| IR 17x20x16 | 0.669 | 17 | 0.787 | 20 | 0.630 | 16 | 0.024 | 10.7 |
| IR 17x20x16.5 | 0.669 | 17 | 0.787 | 20 | 0.650 | 16.5 | 0.024 | 11.1 |
| IR 17x20x20 | 0.669 | 17 | 0.787 | 20 | 0.787 | 20 | 0.03 | 13.5 |
| IR 17x20x20.5 | 0.669 | 17 | 0.787 | 20 | 0.807 | 20.5 | 0.03 | 13.8 |
| IR 17x20x30.5 | 0.669 | 17 | 0.787 | 20 | 1.201 | 30.5 | 0.045 | 20.6 |

# Inner Rings
## IR SERIES

- Metric series
- Hardened
- Precision ground for use with precision needle bearings
- ★ With oil hole included

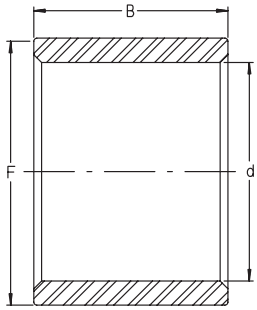



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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD F inch | OD F mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT g |
|---|---|---|---|---|---|---|---|---|
| IR 17x21x16 | 0.669 | 17 | 0.827 | 21 | 0.630 | 16 | 0.032 | 14.3 |
| IR 17x21x20 | 0.669 | 17 | 0.827 | 21 | 0.787 | 20 | 0.04 | 18 |
| IR 17x22x13 | 0.669 | 17 | 0.866 | 22 | 0.512 | 13 | 0.033 | 14.9 |
| ★IR 17x22x14 | 0.669 | 17 | 0.866 | 22 | 0.551 | 14 | 0.036 | 16.4 |
| IR 17x22x16 | 0.669 | 17 | 0.866 | 22 | 0.630 | 16 | 0.041 | 18.7 |
| IR 17x22x23 | 0.669 | 17 | 0.866 | 22 | 0.906 | 23 | 0.06 | 27.1 |
| IR 17x24x20 | 0.669 | 17 | 0.945 | 24 | 0.787 | 20 | 0.074 | 33.6 |
| IR 20x24x16 | 0.787 | 20 | 0.945 | 24 | 0.630 | 16 | 0.036 | 16.5 |
| IR 20x24x20 | 0.787 | 20 | 0.945 | 24 | 0.787 | 20 | 0.047 | 21.3 |
| ★IR 20x25x16 | 0.787 | 20 | 0.984 | 25 | 0.630 | 16 | 0.047 | 21.1 |
| IR 20x25x17 | 0.787 | 20 | 0.984 | 25 | 0.669 | 17 | 0.049 | 22.4 |
| ★IR 20x25x18 | 0.787 | 20 | 0.984 | 25 | 0.709 | 18 | 0.054 | 24.3 |
| IR 20x25x20 | 0.787 | 20 | 0.984 | 25 | 0.787 | 20 | 0.061 | 27.5 |
| IR 20x25x20.5 | 0.787 | 20 | 0.984 | 25 | 0.807 | 20.5 | 0.062 | 28.2 |
| IR 20x25x26.5 | 0.787 | 20 | 0.984 | 25 | 1.043 | 26.5 | 0.08 | 36.1 |
| IR 20x25x30 | 0.787 | 20 | 0.984 | 25 | 1.181 | 30 | 0.09 | 40.9 |
| IR 20x25x38.5 | 0.787 | 20 | 0.984 | 25 | 1.516 | 38.5 | 0.116 | 52.5 |
| IR 20x28x20 | 0.787 | 20 | 1.102 | 28 | 0.787 | 20 | 0.1 | 45.2 |
| IR 22x26x16 | 0.866 | 22 | 1.024 | 26 | 0.630 | 16 | 0.039 | 17.5 |
| IR 22x26x20 | 0.866 | 22 | 1.024 | 26 | 0.787 | 20 | 0.051 | 23.2 |
| IR 22x28x17 | 0.866 | 22 | 1.102 | 28 | 0.669 | 17 | 0.066 | 29.8 |
| IR 22x28x20 | 0.866 | 22 | 1.102 | 28 | 0.787 | 20 | 0.077 | 35 |
| IR 22x28x20.5 | 0.866 | 22 | 1.102 | 28 | 0.807 | 20.5 | 0.079 | 36 |
| IR 22x28x30 | 0.866 | 22 | 1.102 | 28 | 1.181 | 30 | 0.12 | 54.4 |
| IR 25x29x20 | 0.984 | 25 | 1.142 | 29 | 0.787 | 20 | 0.056 | 25.5 |
| IR 25x29x30 | 0.984 | 25 | 1.142 | 29 | 1.181 | 30 | 0.087 | 39.3 |
| ★IR 25x30x16 | 0.984 | 25 | 1.181 | 30 | 0.630 | 16 | 0.057 | 26 |
| IR 25x30x17 | 0.984 | 25 | 1.181 | 30 | 0.669 | 17 | 0.061 | 27.5 |
| ★IR 25x30x18 | 0.984 | 25 | 1.181 | 30 | 0.709 | 18 | 0.066 | 29.8 |
| IR 25x30x20 | 0.984 | 25 | 1.181 | 30 | 0.787 | 20 | 0.072 | 32.6 |
| IR 25x30x20.5 | 0.984 | 25 | 1.181 | 30 | 0.807 | 20.5 | 0.074 | 33.5 |
| IR 25x30x26.5 | 0.984 | 25 | 1.181 | 30 | 1.043 | 26.5 | 0.095 | 43.3 |
| IR 25x30x30 | 0.984 | 25 | 1.181 | 30 | 1.181 | 30 | 0.11 | 50.1 |
| IR 25x30x32 | 0.984 | 25 | 1.181 | 30 | 1.260 | 32 | 0.117 | 53 |
| IR 25x30x38.5 | 0.984 | 25 | 1.181 | 30 | 1.516 | 38.5 | 0.141 | 63.8 |
| IR 25x32x22 | 0.984 | 25 | 1.260 | 32 | 0.866 | 22 | 0.114 | 51.7 |
| IR 28x32x17 | 1.102 | 28 | 1.260 | 32 | 0.669 | 17 | 0.054 | 24.5 |
| IR 28x32x20 | 1.102 | 28 | 1.260 | 32 | 0.787 | 20 | 0.063 | 28.4 |
| IR 28x32x30 | 1.102 | 28 | 1.260 | 32 | 1.181 | 30 | 0.097 | 43.8 |
| IR 29x32x13 | 1.142 | 29 | 1.260 | 32 | 0.512 | 13 | 0.033 | 14.8 |
| IR 30x35x13 | 1.181 | 30 | 1.378 | 35 | 0.512 | 13 | 0.055 | 25 |
| IR 30x35x16 | 1.181 | 30 | 1.378 | 35 | 0.630 | 16 | 0.068 | 30.8 |
| IR 30x35x17 | 1.181 | 30 | 1.378 | 35 | 0.669 | 17 | 0.071 | 32.3 |
| ★IR 30x35x18 | 1.181 | 30 | 1.378 | 35 | 0.709 | 18 | 0.078 | 35.3 |
| IR 30x35x20 | 1.181 | 30 | 1.378 | 35 | 0.787 | 20 | 0.088 | 40 |
| IR 30x35x20.5 | 1.181 | 30 | 1.378 | 35 | 0.807 | 20.5 | 0.09 | 40.7 |

# Inner Rings
## IR SERIES

- Metric series
- Hardened
- Precision ground for use with precision needle bearings
- ★ With oil hole included

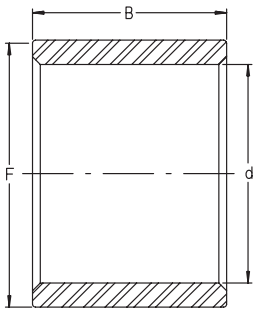



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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD F inch | OD F mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT g |
|---|---|---|---|---|---|---|---|---|
| IR 30x35x26 | 1.181 | 30 | 1.378 | 35 | 1.024 | 26 | 0.111 | 50.3 |
| IR 30x35x30 | 1.181 | 30 | 1.378 | 35 | 1.181 | 30 | 0.13 | 58.9 |
| IR 30x37x18 | 1.181 | 30 | 1.457 | 37 | 0.709 | 18 | 0.11 | 50 |
| IR 30x37x22 | 1.181 | 30 | 1.457 | 37 | 0.866 | 22 | 0.134 | 60.8 |
| ★IR 30x38x20 | 1.181 | 30 | 1.496 | 38 | 0.787 | 20 | 0.143 | 64.8 |
| IR 32x37x20 | 1.260 | 32 | 1.457 | 37 | 0.787 | 20 | 0.093 | 42 |
| IR 32x37x30 | 1.260 | 32 | 1.457 | 37 | 1.181 | 30 | 0.138 | 62.7 |
| IR 32x40x20 | 1.260 | 32 | 1.575 | 40 | 0.787 | 20 | 0.15 | 68 |
| IR 32x40x36 | 1.260 | 32 | 1.575 | 40 | 1.417 | 36 | 0.273 | 124 |
| IR 33x37x13 | 1.299 | 33 | 1.457 | 37 | 0.512 | 13 | 0.048 | 21.9 |
| IR 35x40x17 | 1.378 | 35 | 1.575 | 40 | 0.669 | 17 | 0.084 | 38.3 |
| IR 35x40x20 | 1.378 | 35 | 1.575 | 40 | 0.787 | 20 | 0.098 | 44.4 |
| IR 35x40x20.5 | 1.378 | 35 | 1.575 | 40 | 0.807 | 20.5 | 0.102 | 46.1 |
| IR 35x40x30 | 1.378 | 35 | 1.575 | 40 | 1.181 | 30 | 0.15 | 67.9 |
| ★IR 35x42x20 | 1.378 | 35 | 1.654 | 42 | 0.787 | 20 | 0.141 | 63.9 |
| IR 35x42x20.5 | 1.378 | 35 | 1.654 | 42 | 0.807 | 20.5 | 0.146 | 66 |
| ★IR 35x42x21 | 1.378 | 35 | 1.654 | 42 | 0.827 | 21 | 0.149 | 67.7 |
| ★IR 35x42x23 | 1.378 | 35 | 1.654 | 42 | 0.906 | 23 | 0.163 | 74 |
| IR 35x42x36 | 1.378 | 35 | 1.654 | 42 | 1.417 | 36 | 0.258 | 117 |
| IR 35x43x22 | 1.378 | 35 | 1.693 | 43 | 0.866 | 22 | 0.181 | 82 |
| IR 38x43x20 | 1.496 | 38 | 1.693 | 43 | 0.787 | 20 | 0.106 | 48.1 |
| IR 38x43x30 | 1.496 | 38 | 1.693 | 43 | 1.181 | 30 | 0.162 | 73.6 |
| IR 40x45x17 | 1.575 | 40 | 1.772 | 45 | 0.669 | 17 | 0.094 | 42.5 |
| IR 40x45x20 | 1.575 | 40 | 1.772 | 45 | 0.787 | 20 | 0.111 | 50.5 |
| IR 40x45x20.5 | 1.575 | 40 | 1.772 | 45 | 0.807 | 20.5 | 0.116 | 52.5 |
| IR 40x45x30 | 1.575 | 40 | 1.772 | 45 | 1.181 | 30 | 0.17 | 77.1 |
| IR 40x48x22 | 1.575 | 40 | 1.890 | 48 | 0.866 | 22 | 0.204 | 92.3 |
| ★IR 40x48x23 | 1.575 | 40 | 1.890 | 48 | 0.906 | 23 | 0.215 | 97.3 |
| IR 40x48x40 | 1.575 | 40 | 1.890 | 48 | 1.575 | 40 | 0.375 | 170 |
| ★IR 40x50x20 | 1.575 | 40 | 1.969 | 50 | 0.787 | 20 | 0.234 | 106 |
| IR 40x50x22 | 1.575 | 40 | 1.969 | 50 | 0.866 | 22 | 0.26 | 118 |
| IR 42x47x20 | 1.654 | 42 | 1.850 | 47 | 0.787 | 20 | 0.118 | 53.5 |
| IR 42x47x30 | 1.654 | 42 | 1.850 | 47 | 1.181 | 30 | 0.179 | 81 |
| IR 45x50x25 | 1.772 | 45 | 1.969 | 50 | 0.984 | 25 | 0.157 | 71.1 |
| IR 45x50x25.5 | 1.772 | 45 | 1.969 | 50 | 1.004 | 25.5 | 0.163 | 73.7 |
| IR 45x50x35 | 1.772 | 45 | 1.969 | 50 | 1.378 | 35 | 0.223 | 101 |
| IR 45x52x22 | 1.772 | 45 | 2.047 | 52 | 0.866 | 22 | 0.196 | 89 |
| ★IR 45x52x23 | 1.772 | 45 | 2.047 | 52 | 0.906 | 23 | 0.205 | 93 |
| IR 45x52x40 | 1.772 | 45 | 2.047 | 52 | 1.575 | 40 | 0.362 | 164 |
| ★IR 45x55x20 | 1.772 | 45 | 2.165 | 55 | 0.787 | 20 | 0.258 | 117 |
| IR 45x55x22 | 1.772 | 45 | 2.165 | 55 | 0.866 | 22 | 0.287 | 130 |
| ★IR 50x55x20 | 1.969 | 50 | 2.165 | 55 | 0.787 | 20 | 0.138 | 62.6 |
| IR 50x55x25 | 1.969 | 50 | 2.165 | 55 | 0.984 | 25 | 0.172 | 77.8 |
| IR 50x55x35 | 1.969 | 50 | 2.165 | 55 | 1.378 | 35 | 0.247 | 112 |
| IR 50x58x22 | 1.969 | 50 | 2.283 | 58 | 0.866 | 22 | 0.254 | 115 |
| ★IR 50x58x23 | 1.969 | 50 | 2.283 | 58 | 0.906 | 23 | 0.262 | 119 |

# Inner Rings
## IR SERIES

- Metric series
- Hardened
- Precision ground for use with precision needle bearings
- ★ With oil hole included

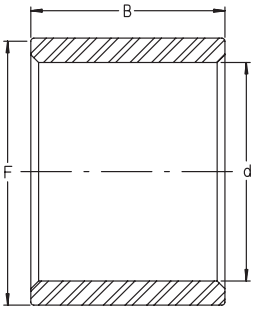



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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD F inch | OD F mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT g |
|---|---|---|---|---|---|---|---|---|
| IR 50x58x40 | 1.969 | 50 | 2.283 | 58 | 1.575 | 40 | 0.461 | 209 |
| ★IR 50x60x20 | 1.969 | 50 | 2.362 | 60 | 0.787 | 20 | 0.284 | 129 |
| IR 50x60x25 | 1.969 | 50 | 2.362 | 60 | 0.984 | 25 | 0.359 | 163 |
| IR 50x60x28 | 1.969 | 50 | 2.362 | 60 | 1.102 | 28 | 0.404 | 183 |
| IR 55x60x25 | 2.165 | 55 | 2.362 | 60 | 0.984 | 25 | 0.19 | 86 |
| IR 55x60x35 | 2.165 | 55 | 2.362 | 60 | 1.378 | 35 | 0.267 | 121 |
| IR 55x63x25 | 2.165 | 55 | 2.480 | 63 | 0.984 | 25 | 0.311 | 141 |
| IR 55x63x45 | 2.165 | 55 | 2.480 | 63 | 1.772 | 45 | 0.564 | 256 |
| IR 55x65x28 | 2.165 | 55 | 2.559 | 65 | 1.102 | 28 | 0.437 | 198 |
| IR 60x68x25 | 2.362 | 60 | 2.677 | 68 | 0.984 | 25 | 0.335 | 152 |
| IR 60x68x35 | 2.362 | 60 | 2.677 | 68 | 1.378 | 35 | 0.47 | 213 |
| IR 60x68x45 | 2.362 | 60 | 2.677 | 68 | 1.772 | 45 | 0.606 | 275 |
| IR 60x70x25 | 2.362 | 60 | 2.756 | 70 | 0.984 | 25 | 0.43 | 195 |
| IR 60x70x28 | 2.362 | 60 | 2.756 | 70 | 1.102 | 28 | 0.476 | 216 |
| IR 65x72x25 | 2.559 | 65 | 2.835 | 72 | 0.984 | 25 | 0.313 | 142 |
| IR 65x72x45 | 2.559 | 65 | 2.835 | 72 | 1.772 | 45 | 0.571 | 259 |
| IR 65x73x25 | 2.559 | 65 | 2.874 | 73 | 0.984 | 25 | 0.362 | 164 |
| IR 65x73x35 | 2.559 | 65 | 2.874 | 73 | 1.378 | 35 | 0.512 | 232 |
| IR 65x75x28 | 2.559 | 65 | 2.953 | 75 | 1.102 | 28 | 0.507 | 230 |
| IR 70x80x25 | 2.756 | 70 | 3.150 | 80 | 0.984 | 25 | 0.494 | 224 |
| IR 70x80x30 | 2.756 | 70 | 3.150 | 80 | 1.181 | 30 | 0.589 | 267 |
| IR 70x80x35 | 2.756 | 70 | 3.150 | 80 | 1.378 | 35 | 0.69 | 313 |
| IR 70x80x54 | 2.756 | 70 | 3.150 | 80 | 2.126 | 54 | 1.074 | 487 |
| IR 70x80x56 | 2.756 | 70 | 3.150 | 80 | 2.205 | 56 | 1.116 | 506 |
| IR 75x85x25 | 2.953 | 75 | 3.346 | 85 | 0.984 | 25 | 0.525 | 238 |
| IR 75x85x30 | 2.953 | 75 | 3.346 | 85 | 1.181 | 30 | 0.633 | 287 |
| IR 75x85x35 | 2.953 | 75 | 3.346 | 85 | 1.378 | 35 | 0.741 | 336 |
| IR 75x85x54 | 2.953 | 75 | 3.346 | 85 | 2.126 | 54 | 1.147 | 520 |
| IR 80x90x25 | 3.150 | 80 | 3.543 | 90 | 0.984 | 25 | 0.56 | 254 |
| IR 80x90x30 | 3.150 | 80 | 3.543 | 90 | 1.181 | 30 | 0.67 | 304 |
| IR 80x90x35 | 3.150 | 80 | 3.543 | 90 | 1.378 | 35 | 0.783 | 355 |
| IR 80x90x54 | 3.150 | 80 | 3.543 | 90 | 2.126 | 54 | 1.213 | 550 |
| IR 85x95x26 | 3.346 | 85 | 3.740 | 95 | 1.024 | 26 | 0.617 | 280 |
| IR 85x95x36 | 3.346 | 85 | 3.740 | 95 | 1.417 | 36 | 0.86 | 390 |
| IR 85x100x35 | 3.346 | 85 | 3.937 | 100 | 1.378 | 35 | 1.279 | 580 |
| IR 85x100x63 | 3.346 | 85 | 3.937 | 100 | 2.480 | 63 | 2.315 | 1050 |
| IR 90x100x26 | 3.543 | 90 | 3.937 | 100 | 1.024 | 26 | 0.648 | 294 |
| IR 90x100x30 | 3.543 | 90 | 3.937 | 100 | 1.181 | 30 | 0.75 | 340 |
| IR 90x100x36 | 3.543 | 90 | 3.937 | 100 | 1.417 | 36 | 0.895 | 406 |
| IR 90x105x35 | 3.543 | 90 | 4.134 | 105 | 1.378 | 35 | 1.345 | 610 |
| IR 90x105x63 | 3.543 | 90 | 4.134 | 105 | 2.480 | 63 | 2.448 | 1110 |
| IR 95x105x26 | 3.740 | 95 | 4.134 | 105 | 1.024 | 26 | 0.69 | 313 |
| IR 95x105x36 | 3.740 | 95 | 4.134 | 105 | 1.417 | 36 | 0.948 | 430 |
| IR 95x110x35 | 3.740 | 95 | 4.331 | 110 | 1.378 | 35 | 1.418 | 643 |
| IR 95x110x63 | 3.740 | 95 | 4.331 | 110 | 2.480 | 63 | 2.58 | 1170 |
| IR 100x110x30 | 3.937 | 100 | 4.331 | 110 | 1.181 | 30 | 0.816 | 370 |

# Inner Rings
## IR SERIES

- Metric series
- Hardened
- Precision ground for use with precision needle bearings
- ★ With oil hole included

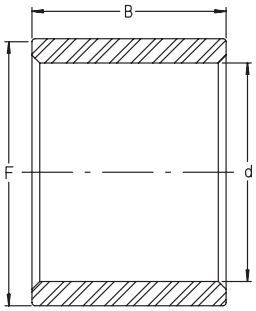



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD F inch | OD F mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT g |
|---|---|---|---|---|---|---|---|---|
| IR 100x110x40 | 3.937 | 100 | 4.331 | 110 | 1.575 | 40 | 1.114 | 505 |
| IR 100x115x40 | 3.937 | 100 | 4.528 | 115 | 1.575 | 40 | 1.709 | 775 |
| IR 110x120x30 | 4.331 | 110 | 4.724 | 120 | 1.181 | 30 | 0.902 | 409 |
| IR 110x125x40 | 4.331 | 110 | 4.921 | 125 | 1.575 | 40 | 1.852 | 840 |
| IR 120x130x30 | 4.724 | 120 | 5.118 | 130 | 1.181 | 30 | 0.975 | 442 |
| IR 120x135x45 | 4.724 | 120 | 5.315 | 135 | 1.772 | 45 | 2.205 | 1000 |
| IR 130x145x35 | 5.118 | 130 | 5.709 | 145 | 1.378 | 35 | 1.885 | 855 |
| IR 130x150x50 | 5.118 | 130 | 5.906 | 150 | 1.969 | 50 | 3.726 | 1690 |
| IR 140x155x35 | 5.512 | 140 | 6.102 | 155 | 1.378 | 35 | 2.022 | 917 |
| IR 140x160x50 | 5.512 | 140 | 6.299 | 160 | 1.969 | 50 | 3.969 | 1800 |
| IR 150x165x40 | 5.906 | 150 | 6.496 | 165 | 1.575 | 40 | 2.47 | 1120 |
| IR 160x175x40 | 6.299 | 160 | 6.890 | 175 | 1.575 | 40 | 2.646 | 1200 |
| IR 170x185x45 | 6.693 | 170 | 7.283 | 185 | 1.772 | 45 | 3.197 | 1450 |
| IR 180x195x45 | 7.087 | 180 | 7.677 | 195 | 1.772 | 45 | 3.33 | 1510 |
| IR 190x210x50 | 7.480 | 190 | 8.268 | 210 | 1.969 | 50 | 5.314 | 2410 |
| IR 200x220x50 | 7.874 | 200 | 8.661 | 220 | 1.969 | 50 | 5.49 | 2490 |
| IR 220x240x50 | 8.661 | 220 | 9.449 | 240 | 1.969 | 50 | 6.064 | 2750 |
| IR 240x265x60 | 9.449 | 240 | 10.433 | 265 | 2.362 | 60 | 10.143 | 4600 |
| IR 260x285x60 | 10.236 | 260 | 11.22 | 285 | 2.362 | 60 | 10.981 | 4980 |
| IR 280x305x69 | 11.024 | 280 | 12.008 | 305 | 2.717 | 69 | 13.451 | 6100 |
| IR 300x330x80 | 11.811 | 300 | 12.992 | 330 | 3.150 | 80 | 20.286 | 9200 |
| IR 320x350x80 | 12.598 | 320 | 13.780 | 350 | 3.150 | 80 | 21.609 | 9800 |
| IR 340x370x80 | 13.386 | 340 | 14.567 | 370 | 3.150 | 80 | 22.491 | 10200 |
| IR 360x390x80 | 14.173 | 360 | 15.354 | 390 | 3.150 | 80 | 24.035 | 10900 |
| IR 380x415x100 | 14.961 | 380 | 16.339 | 415 | 3.937 | 100 | 37.485 | 17000 |

# Inner Rings
## LR SERIES

- Metric series
- Hardened
- Fine machined for use with shell bearings

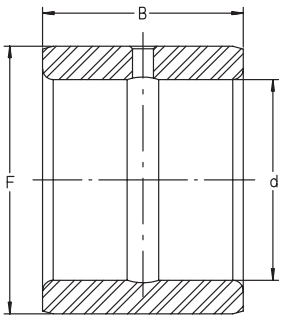



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD F inch | OD F mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT g |
|---|---|---|---|---|---|---|---|---|
| LR 7x10x10.5 | 0.276 | 7 | 0.394 | 10 | 0.413 | 10.5 | 0.007 | 3.09 |
| LR 8x12x10.5 | 0.315 | 8 | 0.472 | 12 | 0.413 | 10.5 | 0.011 | 5 |
| LR 8x12x12.5 | 0.315 | 8 | 0.472 | 12 | 0.492 | 12.5 | 0.013 | 5.9 |
| LR 10x13x12.5 | 0.394 | 10 | 0.512 | 13 | 0.492 | 12.5 | 0.011 | 5.2 |
| LR 12x15x12.5 | 0.472 | 12 | 0.591 | 15 | 0.492 | 12.5 | 0.013 | 6.1 |
| LR 12x15x16.5 | 0.472 | 12 | 0.591 | 15 | 0.650 | 16.5 | 0.018 | 8.1 |
| LR 12x15x22.5 | 0.472 | 12 | 0.591 | 15 | 0.886 | 22.5 | 0.024 | 10.9 |
| LR 15x18x12.5 | 0.591 | 15 | 0.709 | 18 | 0.492 | 12.5 | 0.016 | 7.2 |
| LR 15x18x16.5 | 0.591 | 15 | 0.709 | 18 | 0.650 | 16.5 | 0.022 | 9.9 |
| LR 17x20x16.5 | 0.669 | 17 | 0.787 | 20 | 0.650 | 16.5 | 0.024 | 11.1 |
| LR 17x20x20.5 | 0.669 | 17 | 0.787 | 20 | 0.807 | 20.5 | 0.03 | 13.8 |
| LR 17x20x30.5 | 0.669 | 17 | 0.787 | 20 | 1.201 | 30.5 | 0.045 | 20.6 |
| LR 20x25x12.5 | 0.787 | 20 | 0.984 | 25 | 0.492 | 12.5 | 0.036 | 16.3 |
| LR 20x25x16.5 | 0.787 | 20 | 0.984 | 25 | 0.650 | 16.5 | 0.048 | 21.7 |
| LR 20x25x20.5 | 0.787 | 20 | 0.984 | 25 | 0.807 | 20.5 | 0.062 | 28.2 |
| LR 20x25x26.5 | 0.787 | 20 | 0.984 | 25 | 1.043 | 26.5 | 0.08 | 36.1 |
| LR 20x25x38.5 | 0.787 | 20 | 0.984 | 25 | 1.516 | 38.5 | 0.116 | 52.5 |
| LR 22x28x20.5 | 0.866 | 22 | 1.102 | 28 | 0.807 | 20.5 | 0.079 | 36 |
| LR 25x30x12.5 | 0.984 | 25 | 1.181 | 30 | 0.492 | 12.5 | 0.044 | 20 |
| LR 25x30x16.5 | 0.984 | 25 | 1.181 | 30 | 0.650 | 16.5 | 0.059 | 26.7 |
| LR 25x30x20.5 | 0.984 | 25 | 1.181 | 30 | 0.807 | 20.5 | 0.074 | 33.5 |
| LR 25x30x26.5 | 0.984 | 25 | 1.181 | 30 | 1.043 | 26.5 | 0.095 | 43.3 |
| LR 25x30x38.5 | 0.984 | 25 | 1.181 | 30 | 1.516 | 38.5 | 0.141 | 63.8 |
| LR 30x35x12.5 | 1.181 | 30 | 1.378 | 35 | 0.492 | 12.5 | 0.051 | 23.3 |
| LR 30x35x16.5 | 1.181 | 30 | 1.378 | 35 | 0.650 | 16.5 | 0.069 | 31.4 |
| LR 30x35x20.5 | 1.181 | 30 | 1.378 | 35 | 0.807 | 20.5 | 0.09 | 40.7 |
| LR 35x40x12.5 | 1.378 | 35 | 1.575 | 40 | 0.492 | 12.5 | 0.06 | 27.2 |
| LR 35x40x16.5 | 1.378 | 35 | 1.575 | 40 | 0.650 | 16.5 | 0.082 | 37.4 |
| LR 35x40x20.5 | 1.378 | 35 | 1.575 | 40 | 0.807 | 20.5 | 0.102 | 46.1 |
| LR 40x45x16.5 | 1.575 | 40 | 1.772 | 45 | 0.650 | 16.5 | 0.091 | 41.4 |
| LR 40x45x20.5 | 1.575 | 40 | 1.772 | 45 | 0.807 | 20.5 | 0.116 | 52.5 |
| LR 45x50x20.5 | 1.772 | 45 | 1.969 | 50 | 0.807 | 20.5 | 0.13 | 58.8 |
| LR 45x50x25.5 | 1.772 | 45 | 1.969 | 50 | 1.004 | 25.5 | 0.163 | 73.7 |
| LR 50x55x20.5 | 1.969 | 50 | 2.165 | 55 | 0.807 | 20.5 | 0.141 | 64.1 |

# Inner Rings
## PI SERIES

- Inch series
- Hardened with oil hole and groove
- Precision ground for use with shell or precision ground bearings

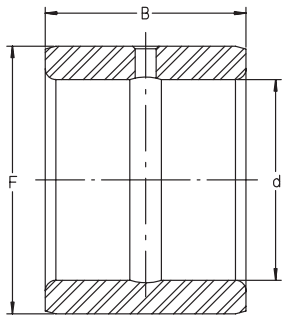



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD F inch | OD F mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT g |
|---|---|---|---|---|---|---|---|---|
| PI050808 | 0.313 | 7.938 | 0.500 | 12.7 | 0.500 | 12.7 | 0.016 | 7.3 |
| PI060908 | 0.375 | 9.525 | 0.563 | 14.288 | 0.500 | 12.7 | 0.019 | 8.5 |
| PI060912 | 0.375 | 9.525 | 0.563 | 14.288 | 0.750 | 19.05 | 0.03 | 13.4 |
| PI061008 | 0.375 | 9.525 | 0.625 | 15.875 | 0.500 | 12.7 | 0.026 | 12.0 |
| PI061012 | 0.375 | 9.525 | 0.625 | 15.875 | 0.750 | 19.05 | 0.04 | 18.0 |
| PI081208 | 0.500 | 12.7 | 0.750 | 19.05 | 0.500 | 12.7 | 0.033 | 15.0 |
| PI081212 | 0.500 | 12.7 | 0.750 | 19.05 | 0.750 | 19.05 | 0.05 | 22.6 |
| PI081216 | 0.500 | 12.7 | 0.750 | 19.05 | 1.000 | 25.4 | 0.066 | 30.1 |
| PI101406 | 0.625 | 15.875 | 0.875 | 22.225 | 0.375 | 9.525 | 0.03 | 13.6 |
| PI101408 | 0.625 | 15.875 | 0.875 | 22.225 | 0.500 | 12.7 | 0.04 | 18 |
| PI101412 | 0.625 | 15.875 | 0.875 | 22.225 | 0.750 | 19.05 | 0.06 | 27.2 |
| PI101416 | 0.625 | 15.875 | 0.875 | 22.225 | 1.0001 | 25.4 | 0.08 | 36.3 |
| PI121608 | 0.750 | 19.05 | 1.000 | 25.4 | 0.500 | 12.7 | 0.046 | 21.1 |
| PI121612 | 0.750 | 19.05 | 1.000 | 25.4 | 0.750 | 19.05 | 0.07 | 31.6 |
| PI121616 | 0.750 | 19.05 | 1.000 | 25.4 | 1.000 | 25.4 | 0.093 | 42.1 |
| PI121620 | 0.750 | 19.05 | 1.000 | 25.4 | 1.2550 | 31.75 | 0.14 | 63.5 |
| PI141808 | 0.875 | 22.225 | 1.125 | 28.575 | 0.500 | 12.7 | 0.05 | 22.7 |
| PI141812 | 0.875 | 22.225 | 1.125 | 28.575 | 0.750 | 19.05 | 0.08 | 36.3 |
| PI141816 | 0.875 | 22.225 | 1.125 | 28.575 | 1.000 | 25.4 | 0.11 | 49.9 |
| PI141820 | 0.875 | 22.225 | 1.125 | 28.575 | 1.250 | 31.75 | 0.13 | 59 |
| PI162012 | 1.000 | 25.4 | 1.250 | 31.75 | 0.750 | 19.05 | 0.09 | 40.6 |
| PI162016 | 1.000 | 25.4 | 1.250 | 31.75 | 1.000 | 25.4 | 0.119 | 54.1 |
| PI162020 | 1.000 | 25.4 | 1.250 | 31.75 | 1.250 | 31.75 | 0.149 | 67.7 |
| PI182208 | 1.125 | 28.575 | 1.375 | 34.925 | 0.500 | 12.7 | 0.07 | 31.8 |
| PI182212 | 1.125 | 28.575 | 1.375 | 34.925 | 0.750 | 19.05 | 0.099 | 45.1 |
| PI182216 | 1.125 | 28.575 | 1.375 | 34.925 | 1.000 | 25.4 | 0.13 | 58.9 |
| PI182220 | 1.125 | 28.575 | 1.375 | 34.925 | 1.250 | 31.75 | 0.17 | 77.1 |
| PI202416 | 1.250 | 31.75 | 1.500 | 38.1 | 1.000 | 25.4 | 0.146 | 66.2 |
| PI202420 | 1.250 | 31.75 | 1.500 | 38.1 | 1.250 | 31.75 | 0.182 | 82.7 |
| PI212616 | 1.313 | 33.338 | 1.625 | 41.275 | 1.000 | 25.4 | 0.195 | 88.3 |
| PI222610 | 1.375 | 34.925 | 1.625 | 41.275 | 0.625 | 15.875 | 0.1 | 45.4 |
| PI222620 | 1.375 | 34.925 | 1.625 | 41.275 | 1.250 | 31.75 | 0.2 | 90.7 |
| PI232816 | 1.437 | 36.512 | 1.750 | 44.45 | 1.000 | 25.4 | 0.22 | 99.8 |
| PI232820 | 1.437 | 36.512 | 1.750 | 44.45 | 1.250 | 31.75 | 0.27 | 122.4 |
| PI232824 | 1.437 | 36.512 | 1.750 | 44.45 | 1.500 | 38.1 | 0.33 | 149.7 |
| PI242812 | 1.500 | 38.1 | 1.750 | 44.45 | 0.750 | 19.05 | 0.13 | 58.9 |
| PI242816 | 1.500 | 38.1 | 1.750 | 44.45 | 1.000 | 25.4 | 0.18 | 81.6 |
| PI242820 | 1.500 | 38.1 | 1.750 | 44.45 | 1.250 | 31.75 | 0.221 | 100.1 |
| PI253016 | 1.563 | 39.688 | 1.875 | 47.625 | 1.000 | 25.4 | 0.23 | 104.3 |
| PI253020 | 1.563 | 39.688 | 1.875 | 47.625 | 1.250 | 31.75 | 0.29 | 131.5 |
| PI263216 | 1.625 | 41.275 | 2.000 | 50.8 | 1.000 | 25.4 | 0.26 | 117.9 |
| PI263220 | 1.625 | 41.275 | 2.000 | 50.8 | 1.250 | 31.75 | 0.361 | 163.5 |
| PI273216 | 1.687 | 42.862 | 2.0002 | 50.8 | 1.000 | 25.4 | 0.24 | 108.9 |
| PI273220 | 1.687 | 42.862 | 2.000 | 50.8 | 1.250 | 31.75 | 0.306 | 138.6 |
| PI283624 | 1.750 | 44.45 | 2.250 | 57.15 | 1.500 | 38.1 | 0.637 | 288.7 |
| PI324024 | 2.000 | 50.8 | 2.500 | 63.5 | 1.500 | 38.1 | 0.725 | 328.6 |

# Inner Rings
## PI SERIES

- Inch series
- Hardened with oil hole and groove
- Precision ground for use with shell or precision ground bearings




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD F inch | OD F mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT g |
|---|---|---|---|---|---|---|---|---|
| PI364024 | 2.250 | 57.15 | 2.500 | 63.5 | 1.500 | 38.1 | 0.378 | 171.4 |
| PI364424 | 2.250 | 57.15 | 2.750 | 69.85 | 1.510 | 38.35 | 0.809 | 367 |
| PI404824 | 2.500 | 63.5 | 3.000 | 76.2 | 1.500 | 38.1 | 0.891 | 404 |
| PI445228 | 2.750 | 69.85 | 3.250 | 82.55 | 1.750 | 44.45 | 1.12 | 508 |
| PI445232 | 2.750 | 69.85 | 3.250 | 82.55 | 2.000 | 50.8 | 1.29 | 585 |
| PI485632 | 3.000 | 76.2 | 3.500 | 88.9 | 2.000 | 50.8 | 1.382 | 626.9 |

# NOTES

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### PRODUCT DESCRIPTION

**INA Yoke Type Track Rollers**

- Available in designs to meet ISO, popular metric and inch series cross sections.
- Metric product with crowned OD standard and available with cylindrical OD.
- Inch product with cylindrical OD standard and available with crowned OD.
- Designed with outer races to act as tires independent of rigid housings, effective load ratings include reverse bending stress allowances.
- Available with needle roller complement, cylindrical roller complements and ball complements to match machine needs.
- Available with sliding or rolling thrust contact or without axial guidance.
- Sealed versions include gap, labyrinth and contact types.
- Available with reduced runout.
- Relubrication groove in inner ring bore.

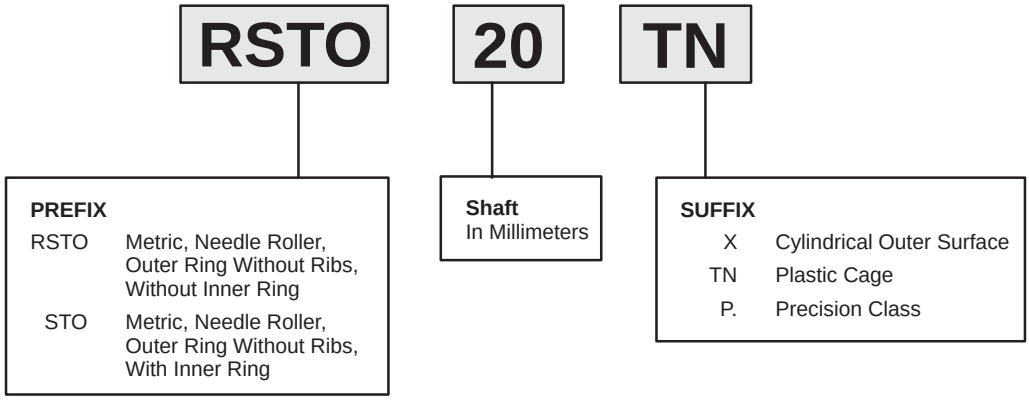
**INA Stud Type Cam Followers**

- Available in designs to meet ISO, popular metric and inch series cross sections.
- Metric product with crowned OD standard and available with cylindrical OD.
- Inch product with cylindrical OD standard and available with crowned OD.
- Designed with outer races to act as tires independent of rigid housings, effective load ratings include reverse bending stress allowances.
- Available with needle roller or cylindrical roller complements.
- Available with sliding or rolling thrust contact or without axial guidance.
- Sealed versions include gap, labyrinth and contact types.
- Available with reduced runout.
- Available with eccentric sleeves for adjusting the center of action.

# Part Number Identification
## CAM FOLLOWERS

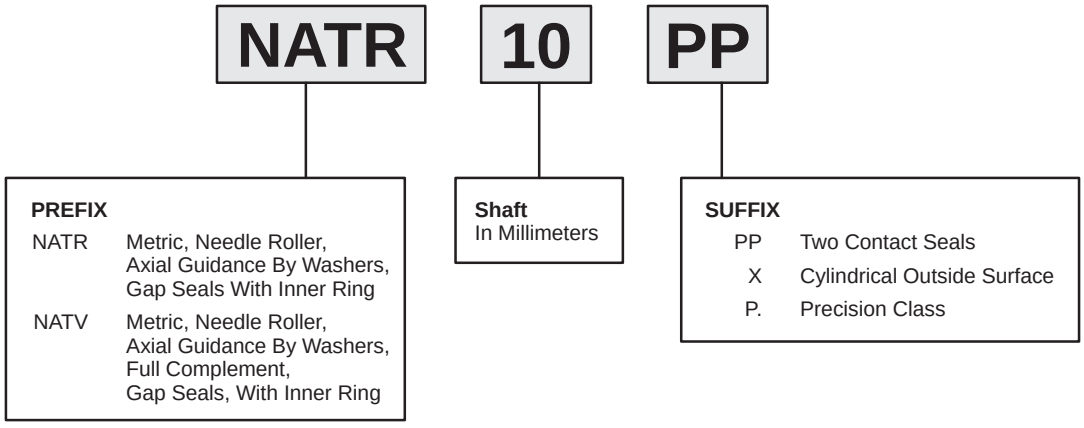
### YOKE TYPE TRACK ROLLERS WITHOUT AXIAL GUIDANCE

**RSTO, STO**



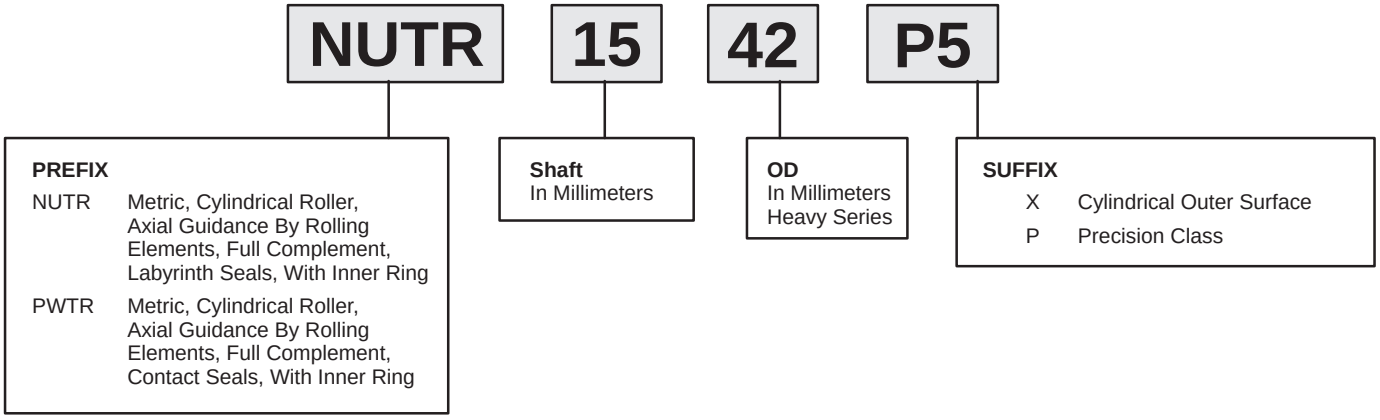

### YOKE TYPE TRACK ROLLERS WITH AXIAL GUIDANCE

**NATR, NATV**



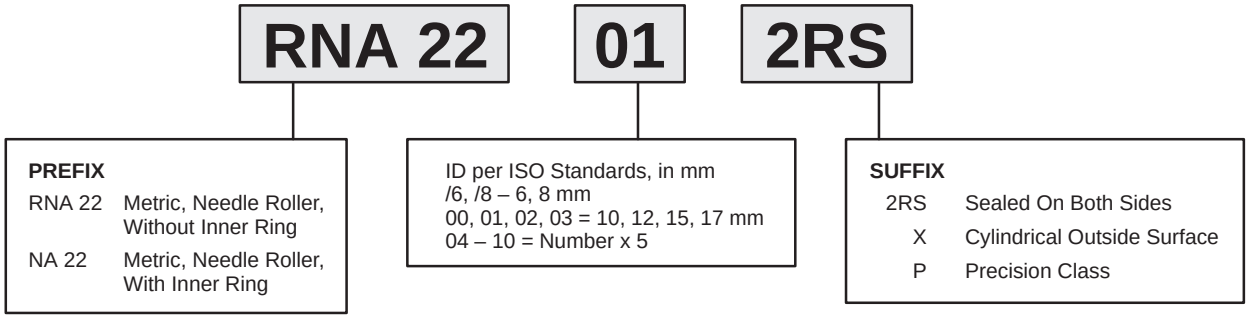
# Part Number Identification
## CAM FOLLOWERS

### YOKE TYPE TRACK ROLLERS WITH AXIAL GUIDANCE



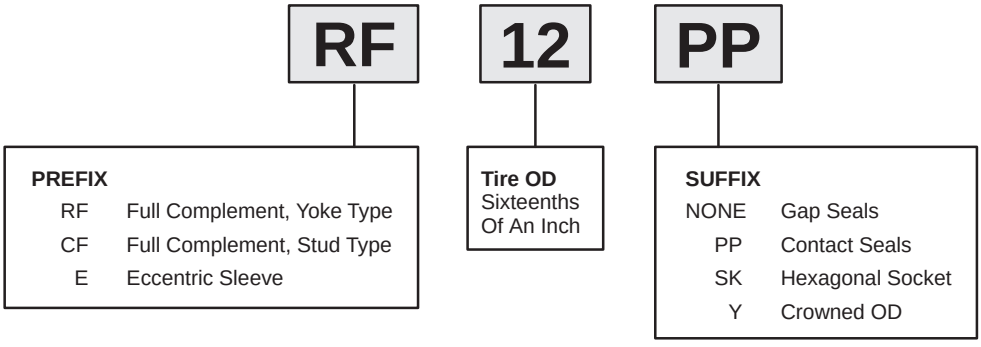

### YOKE TYPE TRACK ROLLERS WITHOUT AXIAL GUIDANCE / SEALED

**RNA 22, NA 22**




### YOKE / STUD TYPE CAM FOLLOWERS INCH SERIES

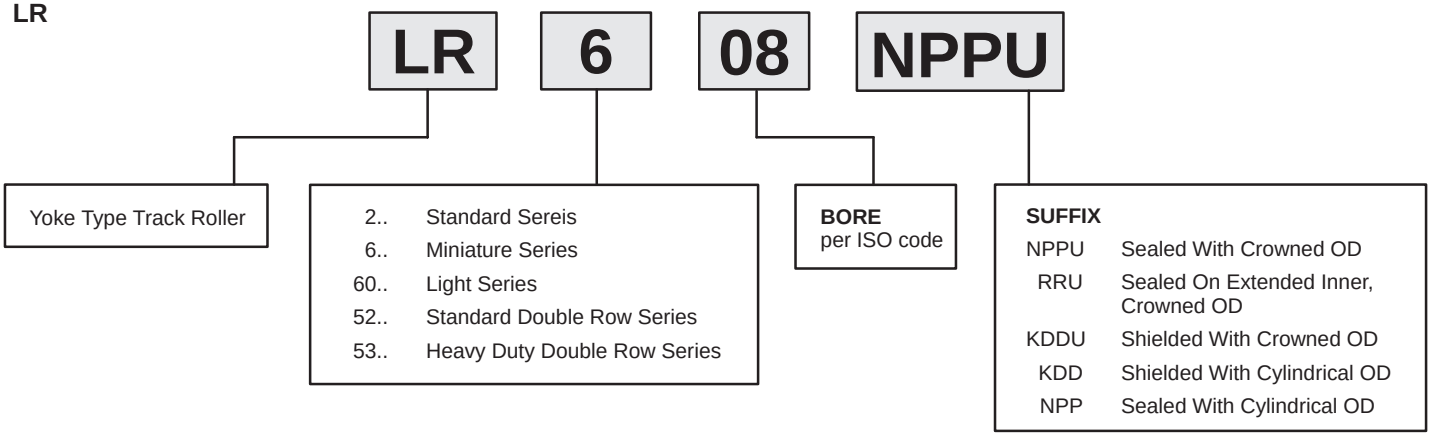
**RF, CF**



# Part Number Identification
## CAM FOLLOWERS

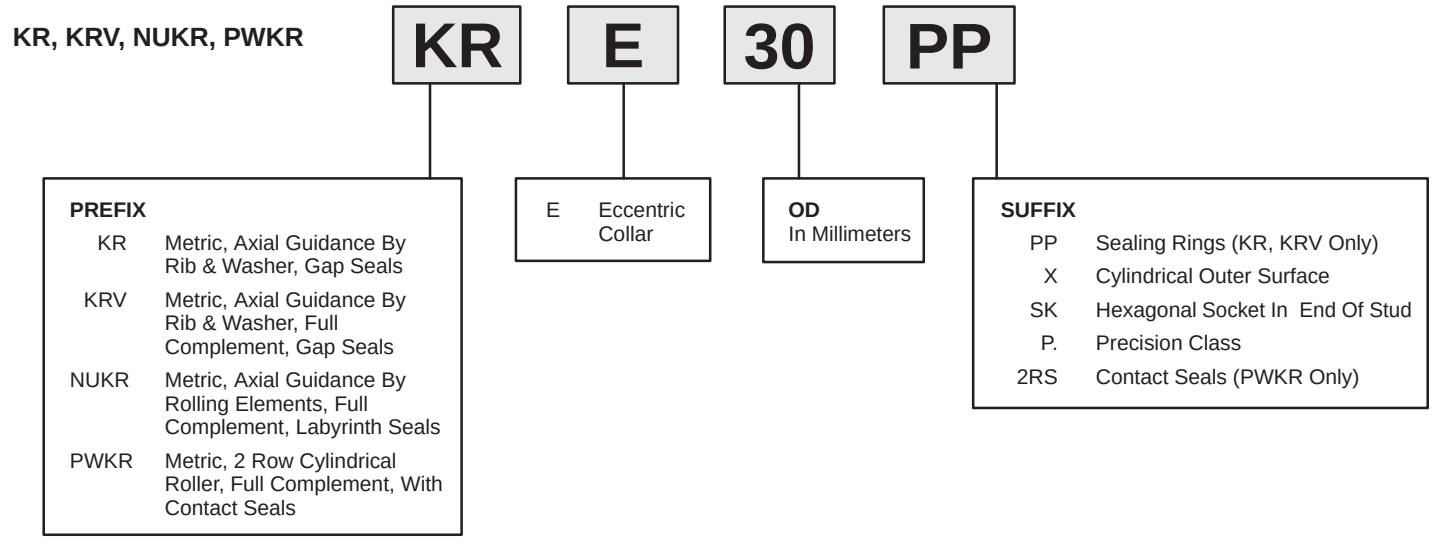
### YOKE TYPE TRACK ROLLER
### BALL BEARING TYPE ELEMENT

**LR**



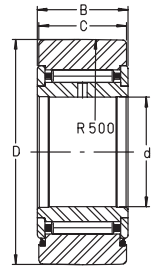

### STUD TYPE CAM FOLLOWERS
### NEEDLE & CYLINDRICAL ROLLER TYPE ELEMENT

**KR, KRV, NUKR, PWKR**



# Yoke Type Cam Follower Selector
## INCH AND METRIC SERIES

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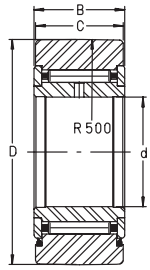

NATR SHOWN FOR DIMENSION REFERENCE ONLY

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER B inch | WIDTH INNER B mm | WIDTH OUTER C inch | WIDTH OUTER C mm | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|
| LR604NPPU | 0.158 | 4 | 0.512 | 13 | 0.158 | 4 | 0.158 | 4 | 40,000 |
| LR605KDDU | 0.197 | 5 | 0.630 | 16 | 0.197 | 5 | 0.197 | 5 | 38,000 |
| LR605NPPU | 0.197 | 5 | 0.630 | 16 | 0.197 | 5 | 0.197 | 5 | 38,000 |
| NATR 5 | 0.197 | 5 | 0.630 | 16 | 0.472 | 12 | 0.433 | 11 | 22,000 |
| NATV 5 | 0.197 | 5 | 0.630 | 16 | 0.472 | 12 | 0.433 | 11 | 8,500 |
| LR50/5NPPU | 0.197 | 5 | 0.669 | 17 | 0.276 | 7 | 0.276 | 7 | 23,500 |
| LR50/6NPPU | 0.236 | 6 | 0.748 | 19 | 0.354 | 9 | 0.354 | 9 | 22,500 |
| LR606KDDU | 0.236 | 6 | 0.748 | 19 | 0.236 | 6 | 0.236 | 6 | 36,000 |
| LR606NPPU | 0.236 | 6 | 0.748 | 19 | 0.236 | 6 | 0.236 | 6 | 36,000 |
| NATR 6 | 0.236 | 6 | 0.748 | 19 | 0.472 | 12 | 0.433 | 11 | 20,000 |
| NATV 6 | 0.236 | 6 | 0.748 | 19 | 0.472 | 12 | 0.433 | 11 | 7,000 |
| STO 6 TN | 0.236 | 6 | 0.748 | 19 | 0.394 | 10 | 0.386 | 9.8 | 26,000 |
| RF12 | 0.250 | 6.350 | 0.750 | 19.050 | 0.563 | 14.288 | 0.500 | 12.7 | 6,000 |
| LR50/7NPPU | 0.276 | 7 | 0.866 | 22 | 0.394 | 10 | 0.394 | 10 | 21,000 |
| LR607KDDU | 0.276 | 7 | 0.866 | 22 | 0.236 | 6 | 0.236 | 6 | 34,000 |
| LR607NPPU | 0.276 | 7 | 0.866 | 22 | 0.236 | 6 | 0.236 | 6 | 34,000 |
| RF14 | 0.250 | 6.350 | 0.875 | 22.225 | 0.563 | 14.288 | 0.500 | 12.7 | 6,000 |
| LR50/8NPPU | 0.315 | 8 | 0.945 | 24 | 0.433 | 11 | 0.433 | 11 | 20,000 |
| LR608KDDU | 0.315 | 8 | 0.945 | 24 | 0.276 | 7 | 0.276 | 7 | 32,000 |
| LR608NPPU | 0.315 | 8 | 0.945 | 24 | 0.276 | 7 | 0.276 | 7 | 32,000 |
| NATR 8 | 0.315 | 8 | 0.945 | 24 | 0.591 | 15 | 0.551 | 14 | 15,000 |
| NATV 8 | 0.315 | 8 | 0.945 | 24 | 0.591 | 15 | 0.551 | 14 | 5,500 |
| STO 8 TN | 0.315 | 8 | 0.945 | 24 | 0.394 | 10 | 0.386 | 9.8 | 20,800 |
| RF16 | 0.313 | 7.938 | 1.000 | 25.400 | 0.688 | 17.463 | 0.625 | 15.875 | 5,000 |
| LR5000NPPU | 0.394 | 10 | 1.102 | 28 | 0.472 | 12 | 0.472 | 12 | 18,500 |
| LR6000 NPPU | 0.394 | 10 | 1.102 | 28 | 0.315 | 8 | 0.315 | 8 | 28,000 |
| RF18 | 0.313 | 7.937 | 1.125 | 28.575 | 0.687 | 17.460 | 0.625 | 15.875 | 5,000 |
| NATR 10 | 0.394 | 10 | 1.181 | 30 | 0.591 | 15 | 0.551 | 14 | 11,000 |
| NATV 10 | 0.394 | 10 | 1.181 | 30 | 0.591 | 15 | 0.551 | 14 | 4,500 |
| STO 10 | 0.394 | 10 | 1.181 | 30 | 0.472 | 12 | 0.465 | 11.8 | 14,300 |
| LR5001NPPU | 0.472 | 12 | 1.181 | 30 | 0.472 | 12 | 0.472 | 12 | 17,500 |
| LR6001 NPPU | 0.472 | 12 | 1.181 | 30 | 0.315 | 8 | 0.315 | 8 | 26,000 |
| RF20 | 0.375 | 9.525 | 1.250 | 31.750 | 0.813 | 20.638 | 0.750 | 19.05 | 4,400 |
| LR200KDD | 0.394 | 10 | 1.260 | 32 | 0.354 | 9 | 0.354 | 9 | 16,000 |
| LR200NPP | 0.394 | 10 | 1.260 | 32 | 0.354 | 9 | 0.354 | 9 | 16,000 |
| LR200NPPU | 0.394 | 10 | 1.260 | 32 | 0.354 | 9 | 0.354 | 9 | 16,000 |
| LR5200KDD | 0.394 | 10 | 1.260 | 32 | 0.551 | 14 | 0.551 | 14 | 16,000 |
| LR5200KDDU | 0.394 | 10 | 1.260 | 32 | 0.551 | 14 | 0.551 | 14 | 16,000 |
| LR5200NPPU | 0.394 | 10 | 1.260 | 32 | 0.551 | 14 | 0.551 | 14 | 16,000 |
| NATR 12 | 0.472 | 12 | 1.260 | 32 | 0.591 | 15 | 0.551 | 14 | 9,000 |
| NATV 12 | 0.472 | 12 | 1.260 | 32 | 0.591 | 15 | 0.551 | 14 | 3,900 |
| STO 12 | 0.472 | 12 | 1.260 | 32 | 0.472 | 12 | 0.465 | 11.8 | 11,700 |
| RF22 | 0.375 | 9.525 | 1.375 | 34.925 | 0.813 | 20.638 | 0.750 | 19.05 | 4,400 |
| LR201NPP | 0.472 | 12 | 1.378 | 35 | 0.394 | 10 | 0.394 | 10 | 15,000 |
| LR201NPPU | 0.472 | 12 | 1.378 | 35 | 0.394 | 10 | 0.394 | 10 | 15,000 |
| LR201RR | 0.472 | 12 | 1.378 | 35 | 0.591 | 15 | 0.394 | 10 | 15,000 |

# Yoke Type Cam Follower Selector
## INCH AND METRIC SERIES

- Sorted by roller OD
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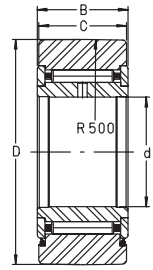

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER B inch | WIDTH INNER B mm | WIDTH OUTER C inch | WIDTH OUTER C mm | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|
| LR201RRU | 0.472 | 12 | 1.378 | 35 | 0.591 | 15 | 0.394 | 10 | 15,000 |
| LR5201KDD | 0.472 | 12 | 1.378 | 35 | 0.626 | 15.9 | 0.626 | 15.9 | 15,000 |
| LR5201KDDU | 0.472 | 12 | 1.378 | 35 | 0.626 | 15.9 | 0.626 | 15.9 | 15,000 |
| LR5201NPPU | 0.472 | 12 | 1.378 | 35 | 0.626 | 15.9 | 0.626 | 15.9 | 15,000 |
| LR5002NPPU | 0.591 | 15 | 1.378 | 35 | 0.512 | 13 | 0.512 | 13 | 14,500 |
| LR6002 NPPU | 0.591 | 15 | 1.378 | 35 | 0.354 | 9 | 0.354 | 9 | 22,000 |
| NATR 15 | 0.591 | 15 | 1.378 | 35 | 0.748 | 19 | 0.709 | 18 | 7,000 |
| NATV 15 | 0.591 | 15 | 1.378 | 35 | 0.748 | 19 | 0.709 | 18 | 3,400 |
| NUTR 15 | 0.591 | 15 | 1.378 | 35 | 0.748 | 19 | 0.709 | 18 | 6,500 |
| PWTR 15 2RS | 0.591 | 15 | 1.378 | 35 | 0.748 | 19 | 0.709 | 18 | 6,000 |
| STO 15 | 0.591 | 15 | 1.378 | 35 | 0.472 | 12 | 0.465 | 11.8 | 8,450 |
| RF24 | 0.438 | 11.113 | 1.500 | 38.100 | 0.937 | 23.810 | 0.875 | 22.225 | 3,400 |
| LR202NPP | 0.591 | 15 | 1.575 | 40 | 0.433 | 11 | 0.433 | 11 | 14,000 |
| LR202NPPU | 0.591 | 15 | 1.575 | 40 | 0.433 | 11 | 0.433 | 11 | 14,000 |
| LR202RR | 0.591 | 15 | 1.575 | 40 | 0.567 | 14.4 | 0.433 | 11 | 14,000 |
| LR202RRU | 0.591 | 15 | 1.575 | 40 | 0.567 | 14.4 | 0.433 | 11 | 14,000 |
| LR5202KDD | 0.591 | 15 | 1.575 | 40 | 0.626 | 15.9 | 0.626 | 15.9 | 14,000 |
| LR5202KDDU | 0.591 | 15 | 1.575 | 40 | 0.626 | 15.9 | 0.626 | 15.9 | 14,000 |
| LR5202NPPU | 0.591 | 15 | 1.575 | 40 | 0.626 | 15.9 | 0.626 | 15.9 | 14,000 |
| LR5003NPPU | 0.669 | 17 | 1.575 | 40 | 0.551 | 14 | 0.551 | 14 | 12,500 |
| LR6003 NPPU | 0.669 | 17 | 1.575 | 40 | 0.394 | 10 | 0.394 | 10 | 19,000 |
| NATR 17 | 0.669 | 17 | 1.575 | 40 | 0.827 | 21 | 0.787 | 20 | 6,000 |
| NATV 17 | 0.669 | 17 | 1.575 | 40 | 0.827 | 21 | 0.787 | 20 | 2,900 |
| NUTR 17 | 0.669 | 17 | 1.575 | 40 | 0.827 | 21 | 0.787 | 20 | 5,500 |
| PWTR 17 2RS | 0.669 | 17 | 1.575 | 40 | 0.827 | 21 | 0.787 | 20 | 5,000 |
| STO 17 | 0.669 | 17 | 1.575 | 40 | 0.630 | 16 | 0.622 | 15.8 | 7,150 |
| RF26 | 0.438 | 11.113 | 1.625 | 41.275 | 0.937 | 23.810 | 0.875 | 22.225 | 3,400 |
| LR5301NPPU | 0.472 | 12 | 1.654 | 42 | 0.748 | 19 | 0.748 | 19 | 10,500 |
| NUTR 15 42 | 0.591 | 15 | 1.654 | 42 | 0.748 | 19 | 0.709 | 18 | 6,500 |
| PWTR 15 42 2RS | 0.591 | 15 | 1.654 | 42 | 0.748 | 19 | 0.709 | 18 | 6,000 |
| RF28 | 0.500 | 12.700 | 1.750 | 44.450 | 1.063 | 26.990 | 1.000 | 25.4 | 2,700 |
| LR5302NPPU | 0.591 | 15 | 1.850 | 47 | 0.748 | 19 | 0.748 | 19 | 10,000 |
| LR203NPP | 0.669 | 17 | 1.850 | 47 | 0.472 | 12 | 0.472 | 12 | 11,000 |
| LR203NPPU | 0.669 | 17 | 1.850 | 47 | 0.472 | 12 | 0.472 | 12 | 11,000 |
| LR203RR | 0.669 | 17 | 1.850 | 47 | 0.721 | 18.3 | 0.472 | 12 | 11,000 |
| LR203RRU | 0.669 | 17 | 1.850 | 47 | 0.721 | 18.3 | 0.472 | 12 | 11,000 |
| LR5203KDD | 0.669 | 17 | 1.850 | 47 | 0.689 | 17.5 | 0.689 | 17.5 | 11,000 |
| LR5203KDDU | 0.669 | 17 | 1.850 | 47 | 0.689 | 17.5 | 0.689 | 17.5 | 11,000 |
| LR5203NPPU | 0.669 | 17 | 1.850 | 47 | 0.689 | 17.5 | 0.689 | 17.5 | 11,000 |
| NUTR 17 47 | 0.669 | 17 | 1.850 | 47 | 0.827 | 21 | 0.787 | 20 | 5,500 |
| PWTR 17 47 2RS | 0.669 | 17 | 1.850 | 47 | 0.827 | 21 | 0.787 | 20 | 5,000 |
| LR5004NPPU | 0.787 | 20 | 1.850 | 47 | 0.630 | 16 | 0.630 | 16 | 11,000 |
| LR6004 NPPU | 0.787 | 20 | 1.850 | 47 | 0.472 | 12 | 0.472 | 12 | 17,000 |
| NATR 20 | 0.787 | 20 | 1.850 | 47 | 0.984 | 25 | 0.945 | 24 | 4,900 |
| NATV 20 | 0.787 | 20 | 1.850 | 47 | 0.984 | 25 | 0.945 | 24 | 2,600 |
| NUTR 20 | 0.787 | 20 | 1.850 | 47 | 0.984 | 25 | 0.945 | 24 | 4,200 |

# Yoke Type Cam Follower Selector
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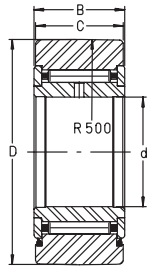

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|---|---|---|---|---|---|---|---|---|---|
| PWTR 20 2RS | 0.787 | 20 | 1.850 | 47 | 0.984 | 25 | 0.945 | 24 | 3,800 |
| STO 20 | 0.787 | 20 | 1.850 | 47 | 0.630 | 16 | 0.622 | 15.8 | 6,110 |
| RF30 | 0.500 | 12.700 | 1.875 | 47.625 | 1.063 | 26.990 | 1.000 | 25.4 | 2,700 |
| RF32 | 0.625 | 15.875 | 2.000 | 50.800 | 1.313 | 33.340 | 1.250 | 31.75 | 2,300 |
| LR5303NPPU | 0.669 | 17 | 2.047 | 52 | 0.874 | 22.2 | 0.874 | 22.2 | 9,500 |
| LR204NPP | 0.787 | 20 | 2.047 | 52 | 0.551 | 14 | 0.551 | 14 | 10,000 |
| LR204NPPU | 0.787 | 20 | 2.047 | 52 | 0.551 | 14 | 0.551 | 14 | 10,000 |
| LR204RR | 0.787 | 20 | 2.047 | 52 | 0.697 | 17.7 | 0.551 | 14 | 10,000 |
| LR204RRU | 0.787 | 20 | 2.047 | 52 | 0.697 | 17.7 | 0.551 | 14 | 10,000 |
| LR5204KDD | 0.787 | 20 | 2.047 | 52 | 0.811 | 20.6 | 0.811 | 20.6 | 10,000 |
| LR5204KDDU | 0.787 | 20 | 2.047 | 52 | 0.811 | 20.6 | 0.811 | 20.6 | 10,000 |
| LR5204NPPU | 0.787 | 20 | 2.047 | 52 | 0.811 | 20.6 | 0.811 | 20.6 | 10,000 |
| NUTR 20 52 | 0.787 | 20 | 2.047 | 52 | 0.984 | 25 | 0.945 | 24 | 4,200 |
| PWTR 20 52 2RS | 0.787 | 20 | 2.047 | 52 | 0.984 | 25 | 0.945 | 24 | 3,800 |
| LR5005NPPU | 0.984 | 25 | 2.047 | 52 | 0.630 | 16 | 0.630 | 16 | 9,500 |
| NATR 25 | 0.984 | 25 | 2.047 | 52 | 0.984 | 25 | 0.945 | 24 | 3,600 |
| NATV 25 | 0.984 | 25 | 2.047 | 52 | 0.984 | 25 | 0.945 | 24 | 2,100 |
| NUTR 25 | 0.984 | 25 | 2.047 | 52 | 0.984 | 25 | 0.945 | 24 | 3,400 |
| PWTR 25 2RS | 0.984 | 25 | 2.047 | 52 | 0.984 | 25 | 0.945 | 24 | 3,800 |
| STO 25 | 0.984 | 25 | 2.047 | 52 | 0.630 | 16 | 0.622 | 15.8 | 4,680 |
| RF36 | 0.625 | 15.875 | 2.250 | 57.150 | 1.313 | 33.340 | 1.250 | 31.75 | 2,300 |
| LR5304KDD | 0.787 | 20 | 2.441 | 62 | 0.874 | 22.2 | 0.874 | 22.2 | 9,000 |
| LR5304KDDU | 0.787 | 20 | 2.441 | 62 | 0.874 | 22.2 | 0.874 | 22.2 | 9,000 |
| LR5304NPPU | 0.787 | 20 | 2.441 | 62 | 0.874 | 22.2 | 0.874 | 22.2 | 9,000 |
| LR205NPP | 0.984 | 25 | 2.441 | 62 | 0.591 | 15 | 0.591 | 15 | 9,000 |
| LR205NPPU | 0.984 | 25 | 2.441 | 62 | 0.591 | 15 | 0.591 | 15 | 9,000 |
| LR205RR | 0.984 | 25 | 2.441 | 62 | 0.827 | 21 | 0.591 | 15 | 9,000 |
| LR205RRU | 0.984 | 25 | 2.441 | 62 | 0.827 | 21 | 0.591 | 15 | 9,000 |
| LR5205KDD | 0.984 | 25 | 2.441 | 62 | 0.811 | 20.6 | 0.811 | 20.6 | 9,000 |
| LR5205KDDU | 0.984 | 25 | 2.441 | 62 | 0.811 | 20.6 | 0.811 | 20.6 | 9,000 |
| LR5205NPPU | 0.984 | 25 | 2.441 | 62 | 0.811 | 20.6 | 0.811 | 20.6 | 9,000 |
| NUTR 25 62 | 0.984 | 25 | 2.441 | 62 | 0.984 | 25 | 0.945 | 24 | 3,400 |
| PWTR 25 62 2RS | 0.984 | 25 | 2.441 | 62 | 0.984 | 25 | 0.945 | 24 | 3,800 |
| LR5006NPPU | 1.181 | 30 | 2.441 | 62 | 0.748 | 19 | 0.748 | 19 | 8,000 |
| NATR 30 | 1.181 | 30 | 2.441 | 62 | 1.142 | 29 | 1.102 | 28 | 2,600 |
| NATV 30 | 1.181 | 30 | 2.441 | 62 | 1.142 | 29 | 1.102 | 28 | 1,700 |
| NUTR 30 | 1.181 | 30 | 2.441 | 62 | 1.142 | 29 | 1.102 | 28 | 2,600 |
| PWTR 30 2RS | 1.181 | 30 | 2.441 | 62 | 1.142 | 29 | 1.102 | 28 | 2,200 |
| STO 30 | 1.181 | 30 | 2.441 | 62 | 0.787 | 20 | 0.780 | 19.8 | 3,250 |
| RF40 | 0.750 | 19.050 | 2.500 | 63.500 | 1.563 | 39.690 | 1.500 | 38.1 | 2,000 |
| LR5007NPPU | 1.378 | 35 | 2.677 | 68 | 0.787 | 20 | 0.787 | 20 | 6,600 |
| RF44 | 0.750 | 19.050 | 2.750 | 69.850 | 1.563 | 39.690 | 1.500 | 38.1 | 2,000 |
| LR5305KDD | 0.984 | 25 | 2.835 | 72 | 1.000 | 25.4 | 1.000 | 25.4 | 7,900 |
| LR5305KDDU | 0.984 | 25 | 2.835 | 72 | 1.000 | 25.4 | 1.000 | 25.4 | 7,900 |
| LR5305NPPU | 0.984 | 25 | 2.835 | 72 | 1.000 | 25.4 | 1.000 | 25.4 | 7,900 |
| LR206NPP | 1.181 | 30 | 2.835 | 72 | 0.630 | 16 | 0.630 | 16 | 7,100 |

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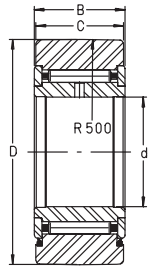

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|---|---|---|---|---|---|---|---|---|---|
| LR206NPPU | 1.181 | 30 | 2.835 | 72 | 0.630 | 16 | 0.630 | 16 | 7,100 |
| LR206RR | 1.181 | 30 | 2.835 | 72 | 0.945 | 24 | 0.630 | 16 | 7,100 |
| LR206RRU | 1.181 | 30 | 2.835 | 72 | 0.945 | 24 | 0.630 | 16 | 7,100 |
| LR5206KDD | 1.181 | 30 | 2.835 | 72 | 0.937 | 23.8 | 0.937 | 23.8 | 7,100 |
| LR5206KDDU | 1.181 | 30 | 2.835 | 72 | 0.937 | 23.8 | 0.937 | 23.8 | 7,100 |
| LR5206NPPU | 1.181 | 30 | 2.835 | 72 | 0.937 | 23.8 | 0.937 | 23.8 | 7,100 |
| NUTR 30 72 | 1.181 | 30 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 2,600 |
| PWTR 30 72 2RS | 1.181 | 30 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 2,200 |
| NATR 35 | 1.378 | 35 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 2,000 |
| NATV 35 | 1.378 | 35 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 1,400 |
| NUTR 35 | 1.378 | 35 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 2,100 |
| PWTR 35 2RS | 1.378 | 35 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 1,800 |
| STO 35 | 1.378 | 35 | 2.835 | 72 | 0.787 | 20 | 0.780 | 19.8 | 2,860 |
| RF48 | 1.000 | 25.400 | 3.000 | 76.200 | 1.813 | 46.040 | 1.750 | 44.45 | 1,600 |
| LR5306NPPU | 1.181 | 30 | 3.150 | 80 | 1.189 | 30.2 | 1.189 | 30.2 | 6,200 |
| LR207NPP | 1.378 | 35 | 3.150 | 80 | 0.669 | 17 | 0.669 | 17 | 5,600 |
| LR207NPPU | 1.378 | 35 | 3.150 | 80 | 0.669 | 17 | 0.669 | 17 | 5,600 |
| LR207RR | 1.378 | 35 | 3.150 | 80 | 0.984 | 25 | 0.669 | 17 | 5,600 |
| LR207RRU | 1.378 | 35 | 3.150 | 80 | 0.984 | 25 | 0.669 | 17 | 5,600 |
| LR5207KDD | 1.378 | 35 | 3.150 | 80 | 1.063 | 27 | 1.063 | 27 | 5,600 |
| LR5207KDDU | 1.378 | 35 | 3.150 | 80 | 1.063 | 27 | 1.063 | 27 | 5,600 |
| LR5207NPPU | 1.378 | 35 | 3.150 | 80 | 1.063 | 27 | 1.063 | 27 | 5,600 |
| NUTR 35 80 | 1.378 | 35 | 3.150 | 80 | 1.142 | 29 | 1.102 | 28 | 2,100 |
| PWTR 35 80 2RS | 1.378 | 35 | 3.150 | 80 | 1.142 | 29 | 1.102 | 28 | 1,800 |
| NATR 40 | 1.575 | 40 | 3.150 | 80 | 1.260 | 32 | 1.181 | 30 | 1,700 |
| NATV 40 | 1.575 | 40 | 3.150 | 80 | 1.260 | 32 | 1.181 | 30 | 1,300 |
| NUTR 40 | 1.575 | 40 | 3.150 | 80 | 1.260 | 32 | 1.181 | 30 | 1,600 |
| PWTR 40 2RS | 1.575 | 40 | 3.150 | 80 | 1.260 | 32 | 1.181 | 30 | 1,500 |
| STO 40 | 1.575 | 40 | 3.150 | 80 | 0.787 | 20 | 0.780 | 19.8 | 2,210 |
| RF52 | 1.000 | 25.400 | 3.250 | 82.550 | 1.813 | 46.040 | 1.750 | 44.45 | 1,600 |
| LR208NPP | 1.575 | 40 | 3.347 | 85 | 0.709 | 18 | 0.709 | 18 | 5,000 |
| LR208NPPU | 1.575 | 40 | 3.347 | 85 | 0.709 | 18 | 0.709 | 18 | 5,000 |
| LR208RR | 1.575 | 40 | 3.347 | 85 | 1.063 | 27 | 0.709 | 18 | 5,000 |
| LR208RRU | 1.575 | 40 | 3.347 | 85 | 1.063 | 27 | 0.709 | 18 | 5,000 |
| LR5208KDD | 1.575 | 40 | 3.347 | 85 | 1.189 | 30.2 | 1.189 | 30.2 | 5,000 |
| LR5208KDDU | 1.575 | 40 | 3.347 | 85 | 1.189 | 30.2 | 1.189 | 30.2 | 5,000 |
| LR5208NPPU | 1.575 | 40 | 3.347 | 85 | 1.189 | 30.2 | 1.189 | 30.2 | 5,000 |
| NATR 45 | 1.772 | 45 | 3.347 | 85 | 1.260 | 32 | 1.181 | 30 | 1,500 |
| NUTR 45 | 1.772 | 45 | 3.347 | 85 | 1.260 | 32 | 1.181 | 30 | 1,400 |
| PWTR 45 2RS | 1.772 | 45 | 3.347 | 85 | 1.260 | 32 | 1.181 | 30 | 1,300 |
| STO 45 | 1.772 | 45 | 3.347 | 85 | 0.787 | 20 | 0.780 | 19.8 | 1,950 |
| RF56 | 1.125 | 28.575 | 3.500 | 88.900 | 2.063 | 52.390 | 2.000 | 50.8 | 1,400 |
| LR5307KDD | 1.378 | 35 | 3.543 | 90 | 1.374 | 34.9 | 1.374 | 34.9 | 5,100 |
| LR5307KDDU | 1.378 | 35 | 3.543 | 90 | 1.374 | 34.9 | 1.374 | 34.9 | 5,100 |
| LR5307NPPU | 1.378 | 35 | 3.543 | 90 | 1.374 | 34.9 | 1.374 | 34.9 | 5,100 |
| NUTR 40 90 | 1.575 | 40 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 1,600 |

# Yoke Type Cam Follower Selector
## INCH AND METRIC SERIES

- Sorted by roller OD
- Series specific details can be found on subsequent pages.
  Please refer to Section Contents or Index for the correct page numbers.



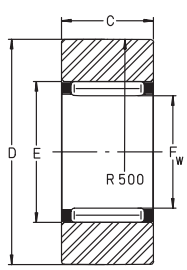

NATR SHOWN FOR DIMENSION REFERENCE ONLY

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

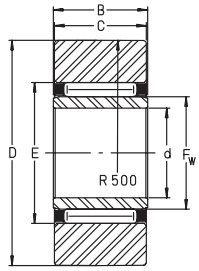
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER B inch | WIDTH INNER B mm | WIDTH OUTER C inch | WIDTH OUTER C mm | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|
| PWTR 40 90 2RS | 1.575 | 40 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 1,500 |
| LR209NPP | 1.772 | 45 | 3.543 | 90 | 0.748 | 19 | 0.748 | 19 | 4,500 |
| LR209NPPU | 1.772 | 45 | 3.543 | 90 | 0.748 | 19 | 0.748 | 19 | 4,500 |
| NATR 50 | 1.969 | 50 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 1,300 |
| NATV 50 | 1.969 | 50 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 1,000 |
| NUTR 50 | 1.969 | 50 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 1,300 |
| PWTR 50 2RS | 1.969 | 50 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 1,100 |
| STO 50 | 1.969 | 50 | 3.543 | 90 | 0.787 | 20 | 0.780 | 19.8 | 1,690 |
| LR5308KDD | 1.575 | 40 | 3.937 | 100 | 1.437 | 36.5 | 1.437 | 36.5 | 4,700 |
| LR5308KDDU | 1.575 | 40 | 3.937 | 100 | 1.437 | 36.5 | 1.437 | 36.5 | 4,700 |
| LR5308NPPU | 1.575 | 40 | 3.937 | 100 | 1.437 | 36.5 | 1.437 | 36.5 | 4,700 |
| NUTR 45 100 | 1.772 | 45 | 3.937 | 100 | 1.260 | 32 | 1.181 | 30 | 1,400 |
| PWTR 45 100 2RS | 1.772 | 45 | 3.937 | 100 | 1.260 | 32 | 1.181 | 30 | 1,300 |
| RF64 | 1.250 | 31.750 | 4.000 | 101.600 | 2.313 | 58.740 | 2.250 | 57.15 | 1,300 |
| NUTR 50 110 | 1.969 | 50 | 4.331 | 110 | 1.260 | 32 | 1.181 | 30 | 1,300 |
| PWTR 50 110 2RS | 1.969 | 50 | 4.331 | 110 | 1.260 | 32 | 1.181 | 30 | 1,100 |
| NNTR 50X130X65 2Z | 1.969 | 50 | 5.118 | 130 | 2.559 | 65 | 2.480 | 63 | 1,100 |
| NNTR 50X130X65 2ZL | 1.969 | 50 | 5.118 | 130 | 2.559 | 65 | 2.480 | 63 | 1,100 |
| NNTR 55X140X70 2Z | 2.165 | 55 | 5.512 | 140 | 2.756 | 70 | 2.677 | 68 | 850 |
| NNTR 55X140X70 2ZL | 2.165 | 55 | 5.512 | 140 | 2.756 | 70 | 2.677 | 68 | 850 |
| NNTR 60X150X75 2Z | 2.362 | 60 | 5.906 | 150 | 2.953 | 75 | 2.874 | 73 | 800 |
| NNTR 60X150X75 2ZL | 2.362 | 60 | 5.906 | 150 | 2.953 | 75 | 2.874 | 73 | 800 |
| NNTR 65X160X75 2Z | 2.559 | 65 | 6.299 | 160 | 2.953 | 75 | 2.874 | 73 | 700 |
| NNTR 65X160X75 2ZL | 2.559 | 65 | 6.299 | 160 | 2.953 | 75 | 2.874 | 73 | 700 |
| NNTR 70X180X85 2Z | 2.756 | 70 | 7.087 | 180 | 3.347 | 85 | 3.268 | 83 | 600 |
| NNTR 70X180X85 2ZL | 2.756 | 70 | 7.087 | 180 | 3.347 | 85 | 3.268 | 83 | 600 |
| NNTR 80X200X90 2Z | 3.150 | 80 | 7.874 | 200 | 3.543 | 90 | 3.465 | 88 | 500 |
| NNTR 80X200X90 2ZL | 3.150 | 80 | 7.874 | 200 | 3.543 | 90 | 3.465 | 88 | 500 |
| NNTR 90X220X100 2Z | 3.543 | 90 | 8.661 | 220 | 3.937 | 100 | 3.858 | 98 | 400 |
| NNTR 90X220X100 2ZL | 3.543 | 90 | 8.661 | 220 | 3.937 | 100 | 3.858 | 98 | 400 |
| NNTR 100X240X105 2Z | 3.937 | 100 | 9.449 | 240 | 4.134 | 105 | 4.055 | 103 | 340 |
| NNTR 100X240X105 2ZL | 3.937 | 100 | 9.449 | 240 | 4.134 | 105 | 4.055 | 103 | 340 |
| NNTR 110X260X115 2Z | 4.331 | 110 | 10.236 | 260 | 4.528 | 115 | 4.449 | 113 | 300 |
| NNTR 110X260X115 2ZL | 4.331 | 110 | 10.236 | 260 | 4.528 | 115 | 4.449 | 113 | 300 |
| NNTR 120X290X135 2Z | 4.724 | 120 | 11.417 | 290 | 5.315 | 135 | 5.236 | 133 | 260 |
| NNTR 120X290X135 2ZL | 4.724 | 120 | 11.417 | 290 | 5.315 | 135 | 5.236 | 133 | 260 |
| NNTR 130X310X146 2Z | 5.118 | 130 | 12.205 | 310 | 5.748 | 146 | 5.669 | 144 | 240 |
| NNTR 130X310X146 2ZL | 5.118 | 130 | 12.205 | 310 | 5.748 | 146 | 5.669 | 144 | 240 |
| NNTR 140X340X162 2Z | 5.512 | 140 | 13.385 | 340 | 6.378 | 162 | 6.299 | 160 | 200 |
| NNTR 140X340X162 2ZL | 5.512 | 140 | 13.385 | 340 | 6.378 | 162 | 6.299 | 160 | 200 |
| NNTR 150X360X173 2Z | 5.906 | 150 | 14.173 | 360 | 6.811 | 173 | 6.732 | 171 | 180 |
| NNTR 150X360X173 2ZL | 5.906 | 150 | 14.173 | 360 | 6.811 | 173 | 6.732 | 171 | 180 |

# Yoke Type Track Rollers
## RSTO, STO SERIES

- Metric series
- Caged needle roller
- Available with cylindrical OD – suffix X
- Accepts no thrust




RSTO




STO

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

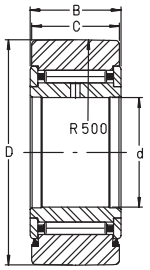
| PART NUMBER WITHOUT INNER RING | PART NUMBER WITH INNER RING | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER B inch | WIDTH INNER B mm | WIDTH OUTER C inch | WIDTH OUTER C mm | TRACK DYN. CAP. Cw lbf | TRACK DYN. CAP. Cw N | TRACK STAT. CAP. $C_0w$ lbf | TRACK STAT. CAP. $C_0w$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RSTO 5 TN | — | — | — | 0.630 | 16 | — | — | 0.307 | 7.8 | 570 | 2550 | 570 | 2550 |
| RSTO 6 TN | STO 6 TN | 0.236 | 6 | 0.748 | 19 | 0.394 | 10 | 0.386 | 9.8 | 840 | 3750 | 1,010 | 4500 |
| RSTO 8 TN | STO 8 TN | 0.315 | 8 | 0.945 | 24 | 0.394 | 10 | 0.386 | 9.8 | 940 | 4200 | 1,240 | 5500 |
| RSTO 10 | STO 10 | 0.394 | 10 | 1.181 | 30 | 0.472 | 12 | 0.465 | 11.8 | 1,890 | 8400 | 2,070 | 9200 |
| RSTO 12 | STO 12 | 0.472 | 12 | 1.260 | 32 | 0.472 | 12 | 0.465 | 11.8 | 2,000 | 8900 | 2,270 | 10100 |
| RSTO 15 | STO 15 | 0.591 | 15 | 1.378 | 35 | 0.472 | 12 | 0.465 | 11.8 | 2,050 | 9100 | 2,410 | 10700 |
| RSTO 17 | STO 17 | 0.669 | 17 | 1.575 | 40 | 0.630 | 16 | 0.622 | 15.8 | 3,200 | 14300 | 4,000 | 17700 |
| RSTO 20 | STO 20 | 0.787 | 20 | 1.850 | 47 | 0.630 | 16 | 0.622 | 15.8 | 3,650 | 16200 | 4,850 | 21500 |
| RSTO 25 | STO 25 | 0.984 | 25 | 2.047 | 52 | 0.630 | 16 | 0.622 | 15.8 | 3,700 | 16500 | 5,100 | 22900 |
| RSTO 30 | STO 30 | 1.181 | 30 | 2.441 | 62 | 0.787 | 20 | 0.780 | 19.8 | 5,200 | 23300 | 7,900 | 35000 |
| RSTO 35 | STO 35 | 1.378 | 35 | 2.835 | 72 | 0.787 | 20 | 0.780 | 19.8 | 5,800 | 26000 | 9,200 | 41000 |
| RSTO 40 | STO 40 | 1.575 | 40 | 3.150 | 80 | 0.787 | 20 | 0.780 | 19.8 | 5,400 | 24000 | 8,800 | 39000 |
| RSTO 45 | STO 45 | 1.772 | 45 | 3.347 | 85 | 0.787 | 20 | 0.780 | 19.8 | 5,700 | 25500 | 9,700 | 43000 |
| RSTO 50 | STO 50 | 1.969 | 50 | 3.543 | 90 | 0.787 | 20 | 0.780 | 19.8 | 5,800 | 26000 | 10,500 | 46500 |

**CONTINUED FROM ABOVE**

| PART NUMBER WITHOUT INNER RING | PART NUMBER WITH INNER RING | WGT. lbs | WGT. g | $F_w$ inch | $F_w$ mm | E inch | E mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RSTO 5 TN | — | 0.019 | 8.5 | 0.276 | 7 | 0.394 | 10 | 640 | 2850 | 600 | 2650 | 29,900 |
| RSTO 6 TN | STO 6 TN | 0.037 | 17 | 0.394 | 10 | 0.512 | 13 | 1,070 | 4750 | 1,240 | 5500 | 26,000 |
| RSTO 8 TN | STO 8 TN | 0.057 | 26 | 0.472 | 12 | 0.591 | 15 | 1,100 | 4900 | 1,370 | 6100 | 20,800 |
| RSTO 10 | STO 10 | 0.108 | 49 | 0.551 | 14 | 0.787 | 20 | 2,320 | 10300 | 2,380 | 10600 | 14,300 |
| RSTO 12 | STO 12 | 0.126 | 57 | 0.630 | 16 | 0.866 | 22 | 2,600 | 11500 | 2,800 | 12500 | 11,700 |
| RSTO 15 | STO 15 | 0.139 | 63 | 0.787 | 20 | 1.024 | 26 | 3,000 | 13400 | 3,650 | 16200 | 8,450 |
| RSTO 17 | STO 17 | 0.236 | 107 | 0.866 | 22 | 1.142 | 29 | 4,500 | 20000 | 5,700 | 25500 | 7,150 |
| RSTO 20 | STO 20 | 0.335 | 152 | 0.984 | 25 | 1.260 | 32 | 4,700 | 21000 | 6,300 | 28000 | 6,110 |
| RSTO 25 | STO 25 | 0.39 | 177 | 1.181 | 30 | 1.457 | 37 | 5,200 | 23100 | 7,500 | 33500 | 4,680 |
| RSTO 30 | STO 30 | 0.679 | 308 | 1.496 | 38 | 1.811 | 46 | 8,000 | 35500 | 12,800 | 57000 | 3,250 |
| RSTO 35 | STO 35 | 0.972 | 441 | 1.654 | 42 | 1.969 | 50 | 8,100 | 36000 | 13,300 | 59000 | 2,860 |
| RSTO 40 | STO 40 | 1.169 | 530 | 1.969 | 50 | 2.284 | 58 | 8,000 | 35500 | 13,900 | 62000 | 2,210 |
| RSTO 45 | STO 45 | 1.27 | 576 | 2.165 | 55 | 2.480 | 63 | 9,000 | 40000 | 16,600 | 74000 | 1,950 |
| RSTO 50 | STO 50 | 1.36 | 617 | 2.362 | 60 | 2.677 | 68 | 9,800 | 43500 | 19,100 | 85000 | 1,690 |

# Yoke Type Track Rollers
## NATR SERIES

- Metric series
- Cage guided needle roller design
- Accepts thrust through flange
- Available sealed – suffix PP
- Available with cylindrical OD – suffix X




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

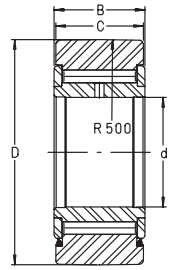
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER B inch | WIDTH INNER B mm | WIDTH OUTER C inch | WIDTH OUTER C mm | WEIGHT lbs | WEIGHT g | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NATR 5 | 0.197 | 5 | 0.630 | 16 | 0.472 | 12 | 0.433 | 11 | 0.031 | 14 | 22000 |
| NATR 6 | 0.236 | 6 | 0.748 | 19 | 0.472 | 12 | 0.433 | 11 | 0.044 | 20 | 20000 |
| NATR 8 | 0.315 | 8 | 0.945 | 24 | 0.591 | 15 | 0.551 | 14 | 0.09 | 41 | 15000 |
| NATR 10 | 0.394 | 10 | 1.181 | 30 | 0.591 | 15 | 0.551 | 14 | 0.141 | 64 | 11000 |
| NATR 12 | 0.472 | 12 | 1.260 | 32 | 0.591 | 15 | 0.551 | 14 | 0.157 | 71 | 9000 |
| NATR 15 | 0.591 | 15 | 1.378 | 35 | 0.748 | 19 | 0.709 | 18 | 0.227 | 103 | 7000 |
| NATR 17 | 0.669 | 17 | 1.575 | 40 | 0.827 | 21 | 0.787 | 20 | 0.318 | 144 | 6000 |
| NATR 20 | 0.787 | 20 | 1.850 | 47 | 0.984 | 25 | 0.945 | 24 | 0.542 | 246 | 4900 |
| NATR 25 | 0.984 | 25 | 2.047 | 52 | 0.984 | 25 | 0.945 | 24 | 0.606 | 275 | 3600 |
| NATR 30 | 1.181 | 30 | 2.441 | 62 | 1.142 | 29 | 1.102 | 28 | 1.036 | 470 | 2600 |
| NATR 35 | 1.378 | 35 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 1.4 | 635 | 2000 |
| NATR 40 | 1.575 | 40 | 3.150 | 80 | 1.260 | 32 | 1.181 | 30 | 1.775 | 805 | 1700 |
| NATR 45 | 1.772 | 45 | 3.347 | 85 | 1.260 | 32 | 1.181 | 30 | 2.007 | 910 | 1500 |
| NATR 50 | 1.969 | 50 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 2.117 | 960 | 1300 |

**CONTINUED FROM ABOVE**

| PART NUMBER | EFFECT. DYN. CAP. Cw lbf | EFFECT. DYN. CAP. Cw N | EFFECT. STAT. CAP. $C_{0}w$ lbf | EFFECT. STAT. CAP. $C_{0w}$ N | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|
| NATR 5 | 710 | 3150 | 740 | 3300 | 850 | 3800 | 840 | 3750 |
| NATR 6 | 790 | 3500 | 880 | 3900 | 960 | 4250 | 1,030 | 4600 |
| NATR 8 | 1,240 | 5500 | 1,440 | 6400 | 1,530 | 6800 | 1,730 | 7700 |
| NATR 10 | 1,530 | 6800 | 1,890 | 8400 | 1,820 | 8100 | 2,180 | 9700 |
| NATR 12 | 1,550 | 6900 | 1,980 | 8800 | 1,960 | 8700 | 2,470 | 11000 |
| NATR 15 | 2,180 | 9700 | 3,150 | 14100 | 2,900 | 12900 | 4,250 | 19000 |
| NATR 17 | 2,450 | 10900 | 3,500 | 15500 | 3,200 | 14200 | 4,600 | 20400 |
| NATR 20 | 3,500 | 15500 | 5,700 | 25500 | 4,400 | 19500 | 7,200 | 32000 |
| NATR 25 | 3,450 | 15400 | 6,000 | 26500 | 4,750 | 21200 | 8,500 | 38000 |
| NATR 30 | 5,300 | 23600 | 8,700 | 38500 | 7,600 | 34000 | 13,300 | 59000 |
| NATR 35 | 5,700 | 25500 | 10,000 | 44500 | 8,300 | 37000 | 15,500 | 69000 |
| NATR 40 | 7,400 | 33000 | 13,300 | 59000 | 11,000 | 49000 | 21,100 | 94000 |
| NATR 45 | 7,300 | 32500 | 13,300 | 59000 | 11,500 | 51000 | 22,700 | 101000 |
| NATR 50 | 7,200 | 32000 | 13,300 | 59000 | 11,700 | 52000 | 24,300 | 108000 |

# Yoke Type Track Rollers
## NATV SERIES

- Metric series
- Full complement needle roller design
- Accepts thrust through flange
- Available sealed – suffix PP
- Available with cylindrical OD – suffix X




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

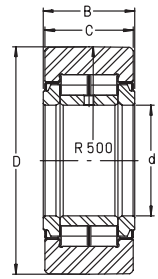
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER B inch | WIDTH INNER B mm | WIDTH OUTER C inch | WIDTH OUTER C mm | WEIGHT lbs | WEIGHT g | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NATV 5 | 0.197 | 5 | 0.630 | 16 | 0.472 | 12 | 0.433 | 11 | 0.033 | 15 | 8500 |
| NATV 6 | 0.236 | 6 | 0.748 | 19 | 0.472 | 12 | 0.433 | 11 | 0.046 | 21 | 7000 |
| NATV 8 | 0.315 | 8 | 0.945 | 24 | 0.591 | 15 | 0.551 | 14 | 0.093 | 42 | 5500 |
| NATV 10 | 0.394 | 10 | 1.181 | 30 | 0.591 | 15 | 0.551 | 14 | 0.143 | 65 | 4500 |
| NATV 12 | 0.472 | 12 | 1.260 | 32 | 0.591 | 15 | 0.551 | 14 | 0.159 | 72 | 3900 |
| NATV 15 | 0.591 | 15 | 1.378 | 35 | 0.748 | 19 | 0.709 | 18 | 0.232 | 105 | 3400 |
| NATV 17 | 0.669 | 17 | 1.575 | 40 | 0.827 | 21 | 0.787 | 20 | 0.335 | 152 | 2900 |
| NATV 20 | 0.787 | 20 | 1.850 | 47 | 0.984 | 25 | 0.945 | 24 | 0.56 | 254 | 2600 |
| NATV 25 | 0.984 | 25 | 2.047 | 52 | 0.984 | 25 | 0.945 | 24 | 0.628 | 285 | 2100 |
| NATV 30 | 1.181 | 30 | 2.441 | 62 | 1.142 | 29 | 1.102 | 28 | 1.061 | 481 | 1700 |
| NATV 35 | 1.378 | 35 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 1.427 | 647 | 1400 |
| NATV 40 | 1.575 | 40 | 3.150 | 80 | 1.260 | 32 | 1.181 | 30 | 1.962 | 890 | 1300 |
| NATV 50 | 1.969 | 50 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 2.183 | 990 | 1000 |

**CONTINUED FROM ABOVE**

| PART NUMBER | EFFECT. DYN. CAP. Cw lbf | EFFECT. DYN. CAP. Cw N | EFFECT. STAT. CAP. $C_0w$ lbf | EFFECT. STAT. CAP. $C_0w$ N | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|
| NATV 5 | 1,090 | 4850 | 1,460 | 6500 | 1,440 | 6400 | 1,910 | 8500 |
| NATV 6 | 1,240 | 5500 | 1,780 | 7900 | 1,640 | 7300 | 2,430 | 10800 |
| NATV 8 | 1,750 | 7800 | 2,550 | 11400 | 2,340 | 10400 | 3,500 | 15600 |
| NATV 10 | 2,140 | 9500 | 3,300 | 14600 | 2,750 | 12200 | 4,250 | 19000 |
| NATV 12 | 2,180 | 9700 | 3,450 | 15400 | 2,950 | 13200 | 4,900 | 21700 |
| NATV 15 | 2,900 | 12800 | 5,200 | 23000 | 4,100 | 18300 | 7,900 | 35000 |
| NATV 17 | 3,350 | 14800 | 6,000 | 26500 | 4,700 | 21000 | 8,900 | 39500 |
| NATV 20 | 4,650 | 20600 | 9,400 | 42000 | 6,300 | 28000 | 13,300 | 59000 |
| NATV 25 | 4,600 | 20500 | 9,900 | 44000 | 7,000 | 31000 | 16,200 | 72000 |
| NATV 30 | 6,900 | 30500 | 14,200 | 63000 | 10,900 | 48500 | 24,300 | 108000 |
| NATV 35 | 7,400 | 33000 | 16,400 | 73000 | 11,900 | 53000 | 28,500 | 127000 |
| NATV 40 | 9,200 | 41000 | 20,200 | 90000 | 14,800 | 66000 | 35,500 | 159000 |
| NATV 50 | 9,100 | 40500 | 20,900 | 93000 | 16,200 | 72000 | 43,000 | 191000 |

# Yoke Type Track Rollers
## NUTR SERIES

- Metric series
- 2 row cylindrical roller design
- Accepts thrust through rollers
- Includes labyrinth seals for higher temperatures
- Available with cylindrical OD – suffix X




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

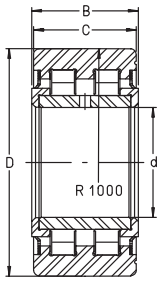
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER B inch | WIDTH INNER B mm | WIDTH OUTER C inch | WIDTH OUTER C mm | WEIGHT lbs | WEIGHT g | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NUTR 15 | 0.591 | 15 | 1.378 | 35 | 0.748 | 19 | 0.709 | 18 | 0.218 | 99 | 6,500 |
| NUTR 17 | 0.669 | 17 | 1.575 | 40 | 0.827 | 21 | 0.787 | 20 | 0.324 | 147 | 5,500 |
| NUTR 15 42 | 0.591 | 15 | 1.654 | 42 | 0.748 | 19 | 0.709 | 18 | 0.348 | 158 | 6,500 |
| NUTR 17 47 | 0.669 | 17 | 1.850 | 47 | 0.827 | 21 | 0.787 | 20 | 0.485 | 220 | 5,500 |
| NUTR 20 | 0.787 | 20 | 1.850 | 47 | 0.984 | 25 | 0.945 | 24 | 0.54 | 245 | 4,200 |
| NUTR 20 52 | 0.787 | 20 | 2.047 | 52 | 0.984 | 25 | 0.945 | 24 | 0.708 | 321 | 4,200 |
| NUTR 25 | 0.984 | 25 | 2.047 | 52 | 0.984 | 25 | 0.945 | 24 | 0.62 | 281 | 3,400 |
| NUTR 25 62 | 0.984 | 25 | 2.441 | 62 | 0.984 | 25 | 0.945 | 24 | 0.992 | 450 | 3,400 |
| NUTR 30 | 1.181 | 30 | 2.441 | 62 | 1.142 | 29 | 1.102 | 28 | 1.025 | 465 | 2,600 |
| NUTR 30 72 | 1.181 | 30 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 1.537 | 697 | 2,600 |
| NUTR 35 | 1.378 | 35 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 1.389 | 630 | 2,100 |
| NUTR 35 80 | 1.378 | 35 | 3.150 | 80 | 1.142 | 29 | 1.102 | 28 | 1.843 | 836 | 2,100 |
| NUTR 40 | 1.575 | 40 | 3.150 | 80 | 1.260 | 32 | 1.181 | 30 | 1.799 | 816 | 1,600 |
| NUTR 45 | 1.772 | 45 | 3.347 | 85 | 1.260 | 32 | 1.181 | 30 | 1.947 | 883 | 1,400 |
| NUTR 40 90 | 1.575 | 40 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 2.489 | 1129 | 1,600 |
| NUTR 50 | 1.969 | 50 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 2.095 | 950 | 1,300 |
| NUTR 45 100 | 1.772 | 45 | 3.937 | 100 | 1.260 | 32 | 1.181 | 30 | 3.078 | 1396 | 1,400 |
| NUTR 50 110 | 1.969 | 50 | 4.331 | 110 | 1.260 | 32 | 1.181 | 30 | 3.726 | 1690 | 1,300 |

**CONTINUED FROM ABOVE**

| PART NUMBER | EFFECT DYN. CAP. Cw lbf | EFFECT DYN. CAP. Cw N | EFFECT STAT. CAP. $C_0w$ lbf | EFFECT STAT. CAP. $C_0w$ N | $F_{r\ perm}$ lbf | $F_{r\ perm}$ N | $F_{or\ perm}$ lbf | $F_{or\ perm}$ N | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NUTR 15 | 3,600 | 16,000 | 4,100 | 18,300 | 1,870 | 8,300 | 3,700 | 16,400 | 5,200 | 23,000 | 6,100 | 27,000 |
| NUTR 17 | 4,150 | 18,500 | 5,100 | 22,800 | 2,950 | 13,200 | 5,100 | 22,800 | 5,600 | 24,800 | 7,000 | 31,000 |
| NUTR 15 42 | 4,350 | 19,400 | 5,400 | 23,800 | 5,400 | 23,900 | 5,400 | 23,900 | 5,200 | 23,000 | 6,100 | 27,000 |
| NUTR 17 47 | 4,800 | 21,300 | 6,300 | 28,000 | 6,300 | 28,000 | 6,300 | 28,000 | 5,600 | 24,800 | 7,000 | 31,000 |
| NUTR 20 | 6,300 | 28,000 | 7,900 | 35,000 | 3,700 | 16,500 | 7,400 | 33,000 | 8,800 | 39,000 | 11,200 | 50,000 |
| NUTR 20 52 | 7,100 | 31,500 | 9,200 | 41,000 | 8,700 | 38,500 | 9,200 | 41,000 | 8,800 | 39,000 | 11,200 | 50,000 |
| NUTR 25 | 6,500 | 29,000 | 8,400 | 37,500 | 3,900 | 17,300 | 7,800 | 34,500 | 9,800 | 43,500 | 13,500 | 60,000 |
| NUTR 25 62 | 8,000 | 35,500 | 11,200 | 50,000 | 11,200 | 50,000 | 11,200 | 50,000 | 9,800 | 43,500 | 13,500 | 60,000 |
| NUTR 30 | 9,000 | 40,000 | 11,500 | 51,000 | 5,300 | 23,600 | 10,600 | 47,000 | 13,300 | 59,000 | 17,800 | 79,000 |
| NUTR 30 72 | 10,800 | 48,000 | 14,600 | 65,000 | 14,600 | 65,000 | 14,600 | 65,000 | 13,300 | 59,000 | 17,800 | 79,000 |
| NUTR 35 | 10,100 | 45,000 | 13,700 | 61,000 | 7,200 | 32,000 | 13,700 | 61,000 | 14,600 | 65,000 | 20,900 | 93,000 |
| NUTR 35 80 | 11,500 | 51,000 | 16,200 | 72,000 | 16,200 | 72,000 | 16,200 | 72,000 | 14,600 | 65,000 | 20,900 | 93,000 |
| NUTR 40 | 12,600 | 56,000 | 17,100 | 76,000 | 6,900 | 30,500 | 13,500 | 60,000 | 20,200 | 90,000 | 30,000 | 134,000 |
| NUTR 45 | 12,600 | 56,000 | 17,800 | 79,000 | 7,100 | 31,500 | 13,700 | 61,000 | 21,400 | 95,000 | 33,000 | 147,000 |
| NUTR 40 90 | 14,800 | 66,000 | 21,600 | 96,000 | 18,900 | 84,000 | 21,600 | 96,000 | 20,200 | 90,000 | 30,000 | 134,000 |
| NUTR 50 | 12,800 | 57,000 | 18,200 | 81,000 | 7,200 | 32,000 | 14,200 | 63,000 | 22,500 | 100,000 | 36,000 | 161,000 |
| NUTR 45 100 | 16,200 | 72,000 | 24,300 | 108,000 | 23,800 | 106,000 | 24,300 | 108,000 | 21,400 | 95,000 | 33,000 | 147,000 |
| NUTR 50 110 | 17,100 | 76,000 | 27,000 | 121,000 | 27,000 | 121,000 | 27,000 | 121,000 | 22,500 | 100,000 | 36,000 | 161,000 |

# Yoke Type Track Rollers
## PWTR SERIES

- Metric series
- 2 row cylindrical roller design
- Accepts thrust through rollers
- Sealed




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

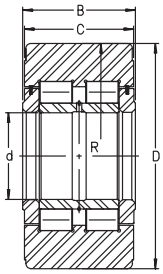
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER B inch | WIDTH INNER B mm | WIDTH OUTER C inch | WIDTH OUTER C mm | WEIGHT lbs | WEIGHT g | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PWTR 15 2RS | 0.591 | 15 | 1.378 | 35 | 0.748 | 19 | 0.709 | 18 | 0.218 | 99 | 6000 |
| PWTR 17 2RS | 0.669 | 17 | 1.575 | 40 | 0.827 | 21 | 0.787 | 20 | 0.324 | 147 | 5000 |
| PWTR 15 42 2RS | 0.591 | 15 | 1.654 | 42 | 0.748 | 19 | 0.709 | 18 | 0.348 | 158 | 6000 |
| PWTR 17 47 2RS | 0.669 | 17 | 1.850 | 47 | 0.827 | 21 | 0.787 | 20 | 0.485 | 220 | 5000 |
| PWTR 20 2RS | 0.787 | 20 | 1.850 | 47 | 0.984 | 25 | 0.950 | 24 | 0.54 | 245 | 3800 |
| PWTR 20 52 2RS | 0.787 | 20 | 2.047 | 52 | 0.984 | 25 | 0.950 | 24 | 0.708 | 321 | 3800 |
| PWTR 25 2RS | 0.984 | 25 | 2.047 | 52 | 0.984 | 25 | 0.950 | 24 | 0.62 | 281 | 3800 |
| PWTR 25 62 2RS | 0.984 | 25 | 2.441 | 62 | 0.984 | 25 | 0.950 | 24 | 0.992 | 450 | 3800 |
| PWTR 30 2RS | 1.181 | 30 | 2.441 | 62 | 1.142 | 29 | 1.102 | 28 | 1.025 | 465 | 2200 |
| PWTR 30 72 2RS | 1.181 | 30 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 1.537 | 697 | 2200 |
| PWTR 35 2RS | 1.378 | 35 | 2.835 | 72 | 1.142 | 29 | 1.102 | 28 | 1.389 | 630 | 1800 |
| PWTR 35 80 2RS | 1.378 | 35 | 3.150 | 80 | 1.142 | 29 | 1.102 | 28 | 1.843 | 836 | 1800 |
| PWTR 40 2RS | 1.575 | 40 | 3.150 | 80 | 1.260 | 32 | 1.181 | 30 | 1.799 | 816 | 1500 |
| PWTR 45 2RS | 1.772 | 45 | 3.347 | 85 | 1.260 | 32 | 1.181 | 30 | 1.947 | 883 | 1300 |
| PWTR 40 90 2RS | 1.575 | 40 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 2.489 | 1129 | 1500 |
| PWTR 50 2RS | 1.969 | 50 | 3.543 | 90 | 1.260 | 32 | 1.181 | 30 | 2.095 | 950 | 1100 |
| PWTR 45 100 2RS | 1.772 | 45 | 3.937 | 100 | 1.260 | 32 | 1.181 | 30 | 3.078 | 1396 | 1300 |
| PWTR 50 110 2RS | 1.969 | 50 | 4.331 | 110 | 1.260 | 32 | 1.181 | 30 | 3.726 | 1690 | 1100 |

**CONTINUED FROM ABOVE**

| PART NUMBER | EFFECT DYN. CAP. Cw lbf | EFFECT DYN. CAP. Cw N | EFFECT STAT. CAP. $C_0w$ lbf | EFFECT STAT. CAP. $C_0w$ N | $F_{r\ perm}$ lbf | $F_{r\ perm}$ N | $F_{or\ perm}$ lbf | $F_{or\ perm}$ N | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PWTR 15 2RS | 2,750 | 11,400 | 2,750 | 11,000 | 2,110 | 7,600 | 2,750 | 11,000 | 3,600 | 15,900 | 3,550 | 15,700 |
| PWTR 17 2RS | 3,100 | 13,500 | 3,300 | 14,100 | 3,200 | 10,800 | 3,300 | 14,100 | 3,850 | 17,200 | 4,000 | 17,800 |
| PWTR 15 42 2RS | 3,200 | 12,900 | 3,400 | 13,800 | 3,400 | 14,100 | 3,400 | 13,800 | 3,600 | 15,900 | 3,550 | 15,700 |
| PWTR 17 47 2RS | 3,500 | 14,900 | 3,900 | 16,400 | 3,900 | 16,000 | 3,900 | 16,400 | 3,850 | 17,200 | 4,000 | 17,800 |
| PWTR 20 2RS | 7,900 | 23,200 | 3,700 | 25,500 | 7,400 | 18,300 | 7,400 | 25,500 | 6,900 | 30,500 | 7,500 | 33,500 |
| PWTR 20 52 2RS | 5,700 | 25,500 | 6,600 | 29,500 | 6,600 | 29,500 | 6,600 | 29,500 | 6,900 | 30,500 | 7,500 | 33,500 |
| PWTR 25 2RS | 5,400 | 23,800 | 6,200 | 25,500 | 4,200 | 16,100 | 6,200 | 25,500 | 7,500 | 33,500 | 9,000 | 40,000 |
| PWTR 25 62 2RS | 6,400 | 24,200 | 8,000 | 32,500 | 8,000 | 32,500 | 8,000 | 32,500 | 7,500 | 33,500 | 9,000 | 40,000 |
| PWTR 30 2RS | 7,800 | 29,000 | 8,400 | 39,500 | 4,950 | 25,500 | 8,400 | 39,500 | 11,200 | 50,000 | 12,800 | 57,000 |
| PWTR 30 72 2RS | 9,300 | 35,000 | 10,800 | 49,500 | 10,800 | 49,000 | 10,800 | 49,500 | 11,200 | 50,000 | 12,800 | 57,000 |
| PWTR 35 2RS | 8,700 | 41,000 | 10,000 | 46,500 | 6,500 | 34,500 | 10,000 | 46,500 | 12,600 | 56,000 | 15,100 | 67,000 |
| PWTR 35 80 2RS | 9,900 | 38,500 | 12,100 | 49,500 | 12,100 | 49,500 | 12,100 | 49,500 | 12,600 | 56,000 | 15,100 | 67,000 |
| PWTR 40 2RS | 10,100 | 41,500 | 12,100 | 53,000 | 7,900 | 32,000 | 12,100 | 53,000 | 14,800 | 66,000 | 18,700 | 83,000 |
| PWTR 45 2RS | 10,300 | 41,500 | 12,600 | 55,000 | 8,200 | 36,500 | 12,600 | 55,000 | 15,700 | 70,000 | 20,500 | 91,000 |
| PWTR 40 90 2RS | 11,700 | 41,500 | 14,800 | 58,000 | 14,800 | 66,000 | 14,800 | 58,000 | 14,800 | 66,000 | 18,700 | 83,000 |
| PWTR 50 2RS | 10,300 | 41,500 | 13,000 | 57,000 | 8,300 | 32,500 | 13,000 | 57,000 | 16,400 | 73,000 | 22,300 | 99,000 |
| PWTR 45 100 2RS | 12,600 | 41,000 | 16,900 | 74,000 | 16,900 | 65,000 | 16,900 | 74,000 | 15,700 | 70,000 | 20,500 | 91,000 |
| PWTR 50 110 2RS | 13,500 | 54,000 | 18,400 | 82,000 | 18,400 | 73,000 | 18,400 | 82,000 | 16,400 | 73,000 | 22,300 | 99,000 |

# Yoke Type Track Rollers
## NNTR SERIES

- Metric series
- Double row cylindrical roller
- Accepts thrust through rollers
- Available with cylindrical OD – suffix X
- Sealed version greased
- Shielded version for use with oil mist




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

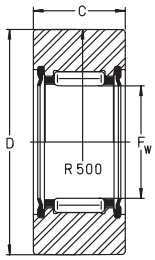
| PART NUMBER LOW GAP SHIELDS | PART NUMBER CONTACT SEALS | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER B inch | WIDTH INNER B mm | WIDTH OUTER C inch | WIDTH OUTER C mm | WEIGHT lbs | WEIGHT kg |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NNTR 50X130X65 2Z | NNTR 50X130X65 2ZL | 1.969 | 50 | 5.118 | 130 | 2.559 | 65 | 2.480 | 63 | 11.5 | 5.2 |
| NNTR 55X140X70 2Z | NNTR 55X140X70 2ZL | 2.165 | 55 | 5.512 | 140 | 2.756 | 70 | 2.677 | 68 | 14.1 | 6.4 |
| NNTR 60X150X75 2Z | NNTR 60X150X75 2ZL | 2.362 | 60 | 5.906 | 150 | 2.953 | 75 | 2.874 | 73 | 17.2 | 7.8 |
| NNTR 65X160X75 2Z | NNTR 65X160X75 2ZL | 2.559 | 65 | 6.299 | 160 | 2.953 | 75 | 2.874 | 73 | 19.4 | 8.8 |
| NNTR 70X180X85 2Z | NNTR 70X180X85 2ZL | 2.756 | 70 | 7.087 | 180 | 3.347 | 85 | 3.268 | 83 | 28.7 | 13 |
| NNTR 80X200X90 2Z | NNTR 80X200X90 2ZL | 3.150 | 80 | 7.874 | 200 | 3.543 | 90 | 3.465 | 88 | 37.0 | 16.8 |
| NNTR 90X220X100 2Z | NNTR 90X220X100 2ZL | 3.543 | 90 | 8.661 | 220 | 3.937 | 100 | 3.858 | 98 | 49.6 | 22.5 |
| NNTR 100X240X105 2Z | NNTR 100X240X105 2ZL | 3.937 | 100 | 9.449 | 240 | 4.134 | 105 | 4.055 | 103 | 61.7 | 28 |
| NNTR 110X260X115 2Z | NNTR 110X260X115 2ZL | 4.331 | 110 | 10.236 | 260 | 4.528 | 115 | 4.449 | 113 | 78.5 | 35.6 |
| NNTR 120X290X135 2Z | NNTR 120X290X135 2ZL | 4.724 | 120 | 11.417 | 290 | 5.315 | 135 | 5.236 | 133 | 116.4 | 52.8 |
| NNTR 130X310X146 2Z | NNTR 130X310X146 2ZL | 5.118 | 130 | 12.205 | 310 | 5.748 | 146 | 5.669 | 144 | 143.8 | 65.2 |
| NNTR 140X340X162 2Z | NNTR 140X340X162 2ZL | 5.512 | 140 | 13.386 | 340 | 6.378 | 162 | 6.299 | 160 | 192.3 | 87.2 |
| NNTR 150X360X173 2Z | NNTR 150X360X173 2ZL | 5.906 | 150 | 14.173 | 360 | 6.811 | 173 | 6.732 | 171 | 229.3 | 104 |

**CONTINUED FROM ABOVE**

| PART NUMBER LOW GAP SHIELDS | PART NUMBER CONTACT SEALS | EFF. DYN. CAP. Cw lbf x 1000 | EFF. DYN. CAP. Cw kN | EFF. STAT. CAP. $C_0w$ lbf x 1000 | EFF. STAT. CAP. $C_0w$ kN | DYN. CAP. C lbf x 1000 | DYN. CAP. C kN | STAT. CAP. $C_0$ lbf x 1000 | STAT. CAP. $C_0$ kN | SPEED LIMIT rpm | CROWN RADIUS inch | CROWN RADIUS mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NNTR 50X130X65 2Z | NNTR 50X130X65 2ZL | 43 | 192 | 56 | 250 | 51 | 229 | 65 | 290 | 1100 | 393.7 | 10,000 |
| NNTR 55X140X70 2Z | NNTR 55X140X70 2ZL | 50 | 223 | 67 | 300 | 63 | 280 | 83 | 370 | 850 | 393.7 | 10,000 |
| NNTR 60X150X75 2Z | NNTR 60X150X75 2ZL | 57 | 255 | 79 | 350 | 72 | 320 | 96 | 425 | 800 | 393.7 | 10,000 |
| NNTR 65X160X75 2Z | NNTR 65X160X75 2ZL | 62 | 275 | 83 | 370 | 76 | 340 | 102 | 455 | 700 | 393.7 | 10,000 |
| NNTR 70X180X85 2Z | NNTR 70X180X85 2ZL | 79 | 350 | 110 | 490 | 98 | 435 | 135 | 600 | 600 | 393.7 | 10,000 |
| NNTR 80X200X90 2Z | NNTR 80X200X90 2ZL | 92 | 410 | 130 | 580 | 115 | 510 | 160 | 710 | 500 | 393.7 | 10,000 |
| NNTR 90X220X100 2Z | NNTR 90X220X100 2ZL | 111 | 495 | 162 | 720 | 146 | 650 | 214 | 950 | 400 | 393.7 | 10,000 |
| NNTR 100X240X105 2Z | NNTR 100X240X105 2ZL | 126 | 560 | 187 | 830 | 166 | 740 | 255 | 1130 | 340 | 393.7 | 10,000 |
| NNTR 110X260X115 2Z | NNTR 110X260X115 2ZL | 151 | 670 | 229 | 1020 | 198 | 880 | 310 | 1370 | 300 | 393.7 | 10,000 |
| NNTR 120X290X135 2Z | NNTR 120X290X135 2ZL | 200 | 890 | 310 | 1370 | 260 | 1150 | 400 | 1790 | 260 | 590.6 | 15,000 |
| NNTR 130X310X146 2Z | NNTR 130X310X146 2ZL | 229 | 1020 | 360 | 1600 | 295 | 1320 | 470 | 2080 | 240 | 590.6 | 15,000 |
| NNTR 140X340X162 2Z | NNTR 140X340X162 2ZL | 275 | 1220 | 425 | 1900 | 365 | 1620 | 580 | 2600 | 200 | 590.6 | 15,000 |
| NNTR 150X360X173 2Z | NNTR 150X360X173 2ZL | 310 | 1370 | 490 | 2170 | 405 | 1810 | 660 | 2950 | 180 | 590.6 | 15,000 |

# Yoke Type Track Rollers
## RNA22..2RS SERIES

- Metric series
- Sealed
- Without inner ring
- Without axial guidance
- Available with cylindrical OD – suffix X

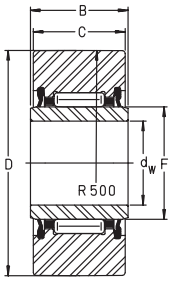



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $F_w$ | SHAFT $F_w$ | OD D | OD D | WIDTH OUTER C | WIDTH OUTER C | WGT. | WGT. | DYN. CAP. TRACK | DYN. CAP. TRACK | STAT. CAP. TRACK | STAT. CAP. TRACK | DYN. CAP. | DYN. CAP. | STAT. CAP. | STAT. CAP. | SPEED LIMIT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | inch | mm | inch | mm | inch | mm | lbs | g | lbf | N | lbf | N | lbf | N | lbf | N | rpm |
| RNA 22/6 2RS | 0.394 | 10 | 0.748 | 19 | 0.465 | 11.8 | 0.04 | 18 | 880 | 3900 | 830 | 3700 | 1,190 | 5300 | 1,050 | 4650 | 18000 |
| RNA 22/8 2RS | 0.472 | 12 | 0.945 | 24 | 0.465 | 11.8 | 0.064 | 29 | 1,080 | 4800 | 1,080 | 4800 | 1,280 | 5700 | 1,210 | 5400 | 14000 |
| RNA 2200 2RS | 0.551 | 14 | 1.181 | 30 | 0.543 | 13.8 | 0.115 | 52 | 1,570 | 7000 | 1,800 | 8000 | 1,750 | 7800 | 1,870 | 8300 | 11000 |
| RNA 2201 2RS | 0.630 | 16 | 1.260 | 32 | 0.543 | 13.8 | 0.126 | 57 | 1,690 | 7500 | 2,020 | 9000 | 1,960 | 8700 | 2,230 | 9900 | 9500 |
| RNA 2202 2RS | 0.787 | 20 | 1.378 | 35 | 0.543 | 13.8 | 0.132 | 60 | 1,710 | 7600 | 2,160 | 9600 | 2,200 | 9800 | 2,750 | 12300 | 7000 |
| RNA 2203 2RS | 0.866 | 22 | 1.575 | 40 | 0.622 | 15.8 | 0.207 | 94 | 2,230 | 9900 | 3,100 | 13800 | 2,750 | 12200 | 3,750 | 16700 | 6000 |
| RNA 2204 2RS | 0.984 | 25 | 1.850 | 47 | 0.701 | 17.8 | 0.335 | 152 | 3,400 | 15200 | 4,100 | 18300 | 4,250 | 18900 | 5,000 | 22300 | 4600 |
| RNA 2205 2RS | 1.181 | 30 | 2.047 | 52 | 0.701 | 17.8 | 0.395 | 179 | 3,550 | 15700 | 4,500 | 20000 | 4,750 | 21100 | 6,100 | 27000 | 3500 |
| RNA 2206 2RS | 1.378 | 35 | 2.441 | 62 | 0.780 | 19.8 | 0.626 | 284 | 4,100 | 18300 | 5,700 | 25500 | 5,200 | 23300 | 7,200 | 32000 | 2800 |
| RNA 2207 2RS | 1.654 | 42 | 2.835 | 72 | 0.894 | 22.7 | 0.953 | 432 | 5,200 | 23000 | 8,000 | 35500 | 6,700 | 30000 | 10,500 | 46500 | 2200 |
| RNA 2208 2RS | 1.890 | 48 | 3.150 | 80 | 0.894 | 22.7 | 1.169 | 530 | 6,200 | 27500 | 9,100 | 40500 | 8,700 | 38500 | 13,000 | 58000 | 1700 |
| RNA 2209 2RS | 2.047 | 52 | 3.347 | 85 | 0.894 | 22.7 | 1.202 | 545 | 6,400 | 28500 | 9,700 | 43000 | 9,100 | 40500 | 14,400 | 64000 | 1600 |
| RNA 2210 2RS | 2.284 | 58 | 3.543 | 90 | 0.894 | 22.7 | 1.241 | 563 | 6,300 | 28000 | 9,600 | 42500 | 9,600 | 42500 | 15,700 | 70000 | 1300 |

# Cam Followers
## NA22..2RS SERIES

- Metric series
- Yoke type
- Sealed
- With inner ring
- Without axial guidance




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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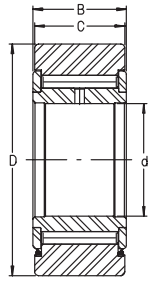
| PART NUMBER | SHAFT $d_w$ inch | SHAFT $d_w$ mm | OD D inch | OD D mm | WIDTH OUTER C inch | WIDTH OUTER C mm | WIDTH INNER B inch | WIDTH INNER B mm | WEIGHT lbs | WEIGHT g |
|---|---|---|---|---|---|---|---|---|---|---|
| NA 22/6 2RS | 0.236 | 6 | 0.748 | 19 | 0.465 | 11.8 | 0.472 | 12 | 0.049 | 22 |
| NA 22/8 2RS | 0.315 | 8 | 0.945 | 24 | 0.465 | 11.8 | 0.472 | 12 | 0.075 | 34 |
| NA 2200 2RS | 0.394 | 10 | 1.181 | 30 | 0.543 | 13.8 | 0.551 | 14 | 0.132 | 60 |
| NA 2201 2RS | 0.472 | 12 | 1.260 | 32 | 0.543 | 13.8 | 0.551 | 14 | 0.148 | 67 |
| NA 2202 2RS | 0.591 | 15 | 1.378 | 35 | 0.543 | 13.8 | 0.551 | 14 | 0.165 | 75 |
| NA 2203 2RS | 0.669 | 17 | 1.575 | 40 | 0.622 | 15.8 | 0.630 | 16 | 0.247 | 112 |
| NA 2204 2RS | 0.787 | 20 | 1.850 | 47 | 0.701 | 17.8 | 0.709 | 18 | 0.39 | 177 |
| NA 2205 2RS | 0.984 | 25 | 2.047 | 52 | 0.701 | 17.8 | 0.709 | 18 | 0.461 | 209 |
| NA 2206 2RS | 1.181 | 30 | 2.441 | 62 | 0.780 | 19.8 | 0.787 | 20 | 0.714 | 324 |
| NA 2207 2RS | 1.378 | 35 | 2.835 | 72 | 0.894 | 22.7 | 0.906 | 23 | 1.114 | 505 |
| NA 2208 2RS | 1.575 | 40 | 3.150 | 80 | 0.894 | 22.7 | 0.906 | 23 | 1.385 | 628 |
| NA 2209 2RS | 1.772 | 45 | 3.347 | 85 | 0.894 | 22.7 | 0.906 | 23 | 1.444 | 655 |
| NA 2210 2RS | 1.969 | 50 | 3.543 | 90 | 0.894 | 22.7 | 0.906 | 23 | 1.521 | 690 |

**CONTINUED FROM ABOVE**

| PART NUMBER | DYN. CAP. TRACK lbf | DYN. CAP. TRACK N | STAT. CAP. TRACK lbf | STAT. CAP. TRACK N | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|
| NA 22/6 2RS | 880 | 3900 | 830 | 3700 | 1,190 | 5300 | 1,050 | 4650 | 18000 |
| NA 22/8 2RS | 1,080 | 4800 | 1,080 | 4800 | 1,280 | 5700 | 1,210 | 5400 | 14000 |
| NA 2200 2RS | 1,570 | 7000 | 1,800 | 8000 | 1,750 | 7800 | 1,870 | 8300 | 11000 |
| NA 2201 2RS | 1,690 | 7500 | 2,020 | 9000 | 1,960 | 8700 | 2,230 | 9900 | 9500 |
| NA 2202 2RS | 1,710 | 7600 | 2,160 | 9600 | 2,200 | 9800 | 2,750 | 12300 | 7000 |
| NA 2203 2RS | 2,230 | 9900 | 3,100 | 13800 | 2,750 | 12200 | 3,750 | 16700 | 6000 |
| NA 2204 2RS | 3,400 | 15200 | 4,100 | 18300 | 4,250 | 18900 | 5,000 | 22300 | 4600 |
| NA 2205 2RS | 3,550 | 15700 | 4,500 | 20000 | 4,750 | 21100 | 6,100 | 27000 | 3500 |
| NA 2206 2RS | 4,100 | 18300 | 5,700 | 25500 | 5,200 | 23300 | 7,200 | 32000 | 2800 |
| NA 2207 2RS | 5,200 | 23000 | 8,000 | 35500 | 6,700 | 30000 | 10,500 | 46500 | 2200 |
| NA 2208 2RS | 6,200 | 27500 | 9,100 | 40500 | 8,700 | 38500 | 13,000 | 58000 | 1700 |
| NA 2209 2RS | 6,400 | 28500 | 9,700 | 43000 | 9,100 | 40500 | 14,400 | 64000 | 1600 |
| NA 2210 2RS | 6,300 | 28000 | 9,600 | 42500 | 9,600 | 42500 | 15,700 | 70000 | 1300 |

# Cam Followers
## RF SERIES

- Inch series
- Yoke type track roller
- Cylindrical tire OD
- Available with crowned OD – suffix Y
- Available sealed – suffix PP




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d mm | TIRE OD D inch | TIRE OD D mm | TIRE WIDTH C inch | TIRE WIDTH C mm | LENGTH B inch | LENGTH B mm | WEIGHT lbs | WEIGHT g | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RF12 | 0.250 | 6.350 | 0.750 | 19.050 | 0.5 | 12.7 | 0.563 | 14.288 | 0.054 | 24.7 | 6000 |
| RF14 | 0.250 | 6.350 | 0.875 | 22.225 | 0.5 | 12.7 | 0.563 | 14.288 | 0.075 | 33.8 | 6000 |
| RF16 | 0.313 | 7.938 | 1.000 | 25.400 | 0.625 | 15.875 | 0.688 | 17.463 | 0.118 | 53.4 | 5000 |
| RF18 | 0.313 | 7.937 | 1.125 | 28.575 | 0.625 | 15.875 | 0.687 | 17.460 | 0.156 | 70.7 | 5000 |
| RF20 | 0.375 | 9.525 | 1.250 | 31.750 | 0.75 | 19.05 | 0.813 | 20.638 | 0.228 | 103.3 | 4400 |
| RF22 | 0.375 | 9.525 | 1.375 | 34.925 | 0.75 | 19.05 | 0.813 | 20.638 | 0.283 | 128.4 | 4400 |
| RF24 | 0.438 | 11.113 | 1.500 | 38.100 | 0.875 | 22.225 | 0.937 | 23.810 | 0.388 | 175.8 | 3400 |
| RF26 | 0.438 | 11.113 | 1.625 | 41.275 | 0.875 | 22.225 | 0.937 | 23.810 | 0.588 | 266.8 | 3400 |
| RF28 | 0.500 | 12.700 | 1.750 | 44.450 | 1 | 25.4 | 1.063 | 26.990 | 0.600 | 272 | 2700 |
| RF30 | 0.500 | 12.700 | 1.875 | 47.625 | 1 | 25.4 | 1.063 | 26.990 | 0.694 | 314.8 | 2700 |
| RF32 | 0.625 | 15.875 | 2.000 | 50.800 | 1.25 | 31.75 | 1.313 | 33.340 | 0.958 | 434.4 | 2300 |
| RF36 | 0.625 | 15.875 | 2.250 | 57.150 | 1.25 | 31.75 | 1.313 | 33.340 | 1.245 | 564.6 | 2300 |
| RF40 | 0.750 | 19.050 | 2.500 | 63.500 | 1.5 | 38.1 | 1.563 | 39.690 | 1.818 | 824.3 | 2000 |
| RF44 | 0.750 | 19.050 | 2.750 | 69.850 | 1.5 | 38.1 | 1.563 | 39.690 | 2.249 | 1020 | 2000 |
| RF48 | 1.000 | 25.400 | 3.000 | 76.200 | 1.75 | 44.45 | 1.813 | 46.040 | 2.972 | 1348 | 1600 |
| RF52 | 1.000 | 25.400 | 3.250 | 82.550 | 1.75 | 44.45 | 1.813 | 46.040 | 3.572 | 1620 | 1600 |
| RF56 | 1.125 | 28.575 | 3.500 | 88.900 | 2 | 50.8 | 2.063 | 52.390 | 4.686 | 2125 | 1400 |
| RF64 | 1.250 | 31.750 | 4.000 | 101.600 | 2.25 | 57.15 | 2.313 | 58.740 | 6.968 | 3160 | 1300 |

**CONTINUED FROM ABOVE**

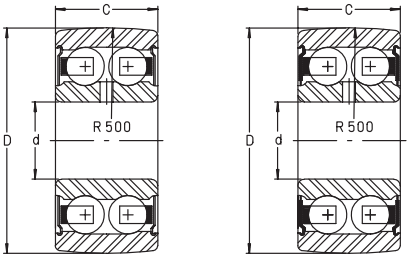
| PART NUMBER | EFFECT. DYN. CAP. Cw lbf | EFFECT. DYN. CAP. Cw N | EFFECT. STAT. CAP. $C_0w$ lbf | EFFECT. STAT. CAP. $C_0w$ N | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|
| RF12 | 1,210 | 5400 | 1,780 | 7900 | 1,910 | 8500 | 3,100 | 13700 |
| RF14 | 1,480 | 6600 | 2,380 | 10600 | 1,910 | 8500 | 3,100 | 13700 |
| RF16 | 1,730 | 7700 | 3,100 | 13700 | 2,500 | 11200 | 4,750 | 21200 |
| RF18 | 1,980 | 8800 | 3,700 | 16500 | 2,500 | 11200 | 4,750 | 21200 |
| RF20 | 3,300 | 14600 | 4,600 | 20500 | 4,500 | 20100 | 6,500 | 29000 |
| RF22 | 3,650 | 16200 | 5,400 | 23800 | 4,500 | 20100 | 6,500 | 29000 |
| RF24 | 4,200 | 18600 | 6,600 | 29500 | 5,400 | 24200 | 8,700 | 38500 |
| RF26 | 4,500 | 20000 | 7,300 | 32500 | 5,400 | 24200 | 8,700 | 38500 |
| RF28 | 5,500 | 24400 | 9,700 | 43000 | 7,000 | 31000 | 12,400 | 55000 |
| RF30 | 5,700 | 25500 | 10,600 | 47000 | 7,000 | 31000 | 12,400 | 55000 |
| RF32 | 7,400 | 33000 | 11,200 | 50000 | 10,300 | 46000 | 16,600 | 74000 |
| RF36 | 8,300 | 37000 | 13,500 | 60000 | 10,300 | 46000 | 16,600 | 74000 |
| RF40 | 11,500 | 51000 | 21,100 | 94000 | 13,900 | 62000 | 25,000 | 112000 |
| RF44 | 12,100 | 54000 | 23,200 | 103000 | 13,900 | 62000 | 25,000 | 112000 |
| RF48 | 13,500 | 60000 | 28,000 | 125000 | 18,200 | 81000 | 40,000 | 177000 |
| RF52 | 14,600 | 65000 | 31,500 | 140000 | 18,200 | 81000 | 39,500 | 176000 |
| RF56 | 19,000 | 85000 | 43,000 | 191000 | 23,200 | 103000 | 52,000 | 231000 |
| RF64 | 21,400 | 95000 | 55,000 | 244000 | 27,500 | 122000 | 73,000 | 325000 |

# Yoke Type Track Rollers

## LR5... SERIES

- Ball bearing type
- Double row angular contact
- Thick walled outer ring

**When operating against a flat raceway or cam plate, the effective load ratings $C_w$ and $C_{0w}$ and the limiting radial loads Fr and For must be used due to the elastic deformation of the outer ring. With track rollers where Frperm< $C_w$, the dynamic loading may not be greater than Fr perm.**




LR5..KDDU LR5..NPPU

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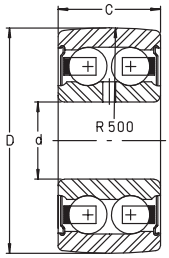
| PART NUMBER | SHAFT d inch | SHAFT d mm | TIRE OD D inch | TIRE OD D mm | WIDTH C inch | WIDTH C mm | WEIGHT lbs | WEIGHT kg | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|
| LR50/5NPPU | 0.197 | 5 | 0.669 | 17 | 0.275 | 7 | 0.022 | 0.01 | 23500 |
| LR50/6NPPU | 0.236 | 6 | 0.748 | 19 | 0.354 | 9 | 0.044 | 0.02 | 22500 |
| LR50/7NPPU | 0.276 | 7 | 0.866 | 22 | 0.394 | 10 | 0.044 | 0.02 | 21000 |
| LR50/8NPPU | 0.315 | 8 | 0.945 | 24 | 0.433 | 11 | 0.066 | 0.03 | 20000 |
| LR5000NPPU | 0.394 | 10 | 1.102 | 28 | 0.472 | 12 | 0.066 | 0.03 | 18500 |
| LR5001NPPU | 0.474 | 12 | 1.181 | 30 | 0.472 | 12 | 0.066 | 0.03 | 17500 |
| LR5200KDDU | 0.394 | 10 | 1.260 | 32 | 0.551 | 14 | 0.154 | 0.07 | 16000 |
| LR5200KDD | 0.394 | 10 | 1.260 | 32 | 0.551 | 14 | 0.154 | 0.07 | 16000 |
| LR5200NPPU | 0.394 | 10 | 1.260 | 32 | 0.551 | 14 | 0.154 | 0.07 | 16000 |
| LR5201KDDU | 0.474 | 12 | 1.378 | 35 | 0.626 | 15.9 | 0.176 | 0.08 | 15000 |
| LR5201KDD | 0.474 | 12 | 1.378 | 35 | 0.626 | 15.9 | 0.176 | 0.08 | 15000 |
| LR5201NPPU | 0.474 | 12 | 1.378 | 35 | 0.626 | 15.9 | 0.176 | 0.08 | 15000 |
| LR5002NPPU | 0.591 | 15 | 1.378 | 35 | 0.512 | 13 | 0.11 | 0.05 | 14500 |
| LR5202KDDU | 0.591 | 15 | 1.575 | 40 | 0.626 | 15.9 | 0.243 | 0.11 | 14000 |
| LR5202KDD | 0.591 | 15 | 1.575 | 40 | 0.626 | 15.9 | 0.243 | 0.11 | 14000 |
| LR5202NPPU | 0.591 | 15 | 1.575 | 40 | 0.626 | 15.9 | 0.243 | 0.11 | 14000 |
| LR5003NPPU | 0.669 | 17 | 1.575 | 40 | 0.551 | 14 | 0.154 | 0.07 | 12500 |
| LR5301NPPU | 0.472 | 12 | 1.654 | 42 | 0.748 | 19 | 0.265 | 0.12 | 10500 |
| LR5302NPPU | 0.591 | 15 | 1.850 | 47 | 0.748 | 19 | 0.331 | 0.15 | 10000 |
| LR5203KDDU | 0.669 | 17 | 1.850 | 47 | 0.689 | 17.5 | 0.375 | 0.17 | 11000 |
| LR5203KDD | 0.669 | 17 | 1.850 | 47 | 0.689 | 17.5 | 0.375 | 0.17 | 11000 |
| LR5203NPPU | 0.669 | 17 | 1.850 | 47 | 0.689 | 17.5 | 0.375 | 0.17 | 11000 |
| LR5004NPPU | 0.787 | 20 | 1.850 | 47 | 0.63 | 16 | 0.265 | 0.12 | 11000 |
| LR5303NPPU | 0.669 | 17 | 2.047 | 52 | 0.874 | 22.2 | 0.463 | 0.21 | 9500 |
| LR5204KDDU | 0.787 | 20 | 2.047 | 52 | 0.811 | 20.6 | 0.507 | 0.23 | 10000 |
| LR5204KDD | 0.787 | 20 | 2.047 | 52 | 0.811 | 20.6 | 0.507 | 0.23 | 10000 |
| LR5204NPPU | 0.787 | 20 | 2.047 | 52 | 0.811 | 20.6 | 0.507 | 0.23 | 10000 |
| LR5005NPPU | 0.984 | 25 | 2.047 | 52 | 0.63 | 16 | 0.331 | 0.15 | 9500 |
| LR5304KDDU | 0.787 | 20 | 2.441 | 62 | 0.874 | 22.2 | 0.75 | 0.34 | 9000 |
| LR5304KDD | 0.787 | 20 | 2.441 | 62 | 0.874 | 22.2 | 0.75 | 0.34 | 9000 |
| LR5304NPPU | 0.787 | 20 | 2.441 | 62 | 0.874 | 22.2 | 0.75 | 0.34 | 9000 |
| LR5205KDDU | 0.984 | 25 | 2.441 | 62 | 0.811 | 20.6 | 0.75 | 0.34 | 9000 |
| LR5205KDD | 0.984 | 25 | 2.441 | 62 | 0.811 | 20.6 | 0.75 | 0.34 | 9000 |
| LR5205NPPU | 0.984 | 25 | 2.441 | 62 | 0.811 | 20.6 | 0.75 | 0.34 | 9000 |
| LR5006NPPU | 1.181 | 30 | 2.441 | 62 | 0.748 | 19 | 0.551 | 0.25 | 8000 |
| LR5007NPPU | 1.378 | 35 | 2.677 | 68 | 0.787 | 20 | 0.662 | 0.3 | 6600 |
| LR5305KDD | 0.984 | 25 | 2.835 | 72 | 1 | 25.4 | 1.103 | 0.5 | 7900 |
| LR5305KDDU | 0.984 | 25 | 2.835 | 72 | 1 | 25.4 | 1.103 | 0.5 | 7900 |
| LR5305NPPU | 0.984 | 25 | 2.835 | 72 | 1 | 25.4 | 1.103 | 0.5 | 7900 |
| LR5206KDD | 1.181 | 30 | 2.835 | 72 | 0.937 | 23.8 | 1.125 | 0.51 | 7100 |
| LR5206KDDU | 1.181 | 30 | 2.835 | 72 | 0.937 | 23.8 | 1.125 | 0.51 | 7100 |
| LR5206NPPU | 1.181 | 30 | 2.835 | 72 | 0.937 | 23.8 | 1.125 | 0.51 | 7100 |
| LR5306NPPU | 1.181 | 30 | 3.150 | 80 | 1.189 | 30.2 | 1.477 | 0.67 | 6200 |
| LR5207KDD | 1.378 | 35 | 3.150 | 80 | 1.063 | 27 | 1.455 | 0.66 | 5600 |
| LR5207KDDU | 1.378 | 35 | 3.150 | 80 | 1.063 | 27 | 1.455 | 0.66 | 5600 |
| LR5207NPPU | 1.378 | 35 | 3.150 | 80 | 1.063 | 27 | 1.455 | 0.66 | 5600 |

# Yoke Type Track Rollers

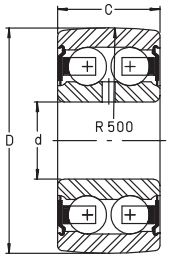
## LR5... SERIES

- Ball bearing type
- Double row angular contact
- Thick walled outer ring

**When operating against a flat raceway or cam plate, the effective load ratings $C_w$ and $C_{0w}$ and the limiting radial loads Fr and For must be used due to the elastic deformation of the outer ring. With track rollers where Frperm< $C_w$, the dynamic loading may not be greater than Fr perm.**




LR5..KDDU




LR5..NPPU

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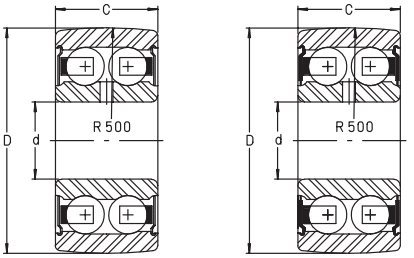
| DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | EFFECTIVE DYN. CAP. $C_w$ lbf | EFFECTIVE DYN. CAP. $C_w$ N | EFFECTIVE DYN. CAP. $C_{0w}$ lbf | EFFECTIVE DYN. CAP. $C_{0w}$ N | LIMITING Frperm lbf | LIMITING Frperm N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|
| 410 | 1810 | 210 | 950 | 370 | 1660 | 210 | 950 | 430 | 1900 | LR50/5NPPU |
| 700 | 3100 | 320 | 1400 | 600 | 2650 | 300 | 1310 | 500 | 2200 | LR50/6NPPU |
| 820 | 3650 | 380 | 1700 | 740 | 3300 | 380 | 1690 | 760 | 3380 | LR50/7NPPU |
| 1170 | 5200 | 590 | 2610 | 950 | 4200 | 530 | 2360 | 790 | 3500 | LR50/8NPPU |
| 1290 | 5700 | 730 | 3250 | 1070 | 4750 | 640 | 2850 | 1190 | 5300 | LR5000NPPU |
| 1400 | 6200 | 850 | 3750 | 1120 | 4850 | 700 | 3100 | 1120 | 5400 | LR5001NPPU |
| 1810 | 8000 | 1030 | 4600 | 1530 | 6800 | 910 | 4050 | 1730 | 7700 | LR5200KDDU |
| 1810 | 8000 | 1030 | 4600 | 1530 | 6800 | 910 | 4050 | 1730 | 7700 | LR5200KDD |
| 1810 | 8000 | 1030 | 4600 | 1530 | 6800 | 910 | 4050 | 1730 | 7700 | LR5200NPPU |
| 2360 | 10600 | 1320 | 5900 | 1930 | 8600 | 1150 | 5100 | 1510 | 6700 | LR5201KDDU |
| 2360 | 10600 | 1320 | 5900 | 1930 | 8600 | 1150 | 5100 | 1510 | 6700 | LR5201KDD |
| 2360 | 10600 | 1320 | 5900 | 1930 | 8600 | 1150 | 5100 | 1510 | 6700 | LR5201NPPU |
| 1940 | 8600 | 1220 | 5400 | 1460 | 6500 | 920 | 4100 | 1190 | 5300 | LR5002NPPU |
| 2650 | 11800 | 1590 | 7100 | 2200 | 9800 | 1390 | 6200 | 2390 | 10600 | LR5202KDDU |
| 2650 | 11800 | 1590 | 7100 | 2200 | 9800 | 1390 | 6200 | 2390 | 10600 | LR5202KDD |
| 2650 | 11800 | 1590 | 7100 | 2200 | 9800 | 1390 | 6200 | 2390 | 10600 | LR5202NPPU |
| 2070 | 9200 | 1390 | 6200 | 1730 | 7700 | 1170 | 5200 | 2300 | 10200 | LR5003NPPU |
| 3300 | 14700 | 1890 | 8400 | 2540 | 11300 | 1590 | 7100 | 2360 | 10500 | LR5301NPPU |
| 3980 | 17700 | 2310 | 10300 | 3280 | 14600 | 2070 | 9200 | 2810 | 12500 | LR5302NPPU |
| 3300 | 14800 | 2040 | 9100 | 2850 | 12600 | 1840 | 8200 | 3580 | 15900 | LR5203KDDU |
| 3300 | 14800 | 2040 | 9100 | 2850 | 12600 | 1840 | 8200 | 3580 | 15900 | LR5203KDD |
| 3300 | 14800 | 2040 | 9100 | 2850 | 12600 | 1840 | 8200 | 3580 | 15900 | LR5203NPPU |
| 3250 | 14500 | 2150 | 9600 | 2600 | 11500 | 1730 | 7700 | 2480 | 11000 | LR5004NPPU |
| 4740 | 21100 | 2810 | 12500 | 3870 | 17200 | 2490 | 11100 | 3480 | 15500 | LR5303NPPU |
| 4450 | 19900 | 2850 | 12600 | 3550 | 15800 | 2360 | 10500 | 3290 | 14600 | LR5204KDDU |
| 4450 | 19900 | 2850 | 12600 | 3550 | 15800 | 2360 | 10500 | 3290 | 14600 | LR5204KDD |
| 4450 | 19900 | 2850 | 12600 | 3550 | 15800 | 2360 | 10500 | 3290 | 14600 | LR5204NPPU |
| 3500 | 15500 | 2490 | 11100 | 2600 | 11600 | 1820 | 8100 | 2450 | 10900 | LR5005NPPU |
| 5500 | 24500 | 3550 | 15800 | 4750 | 21100 | 3250 | 14500 | 6080 | 27000 | LR5304KDDU |
| 5500 | 24500 | 3550 | 15800 | 4750 | 21100 | 3250 | 14500 | 6080 | 27000 | LR5304KDD |
| 5500 | 24500 | 3550 | 15800 | 4750 | 21100 | 3250 | 14500 | 6080 | 27000 | LR5304NPPU |
| 4850 | 21600 | 3350 | 14900 | 4150 | 18500 | 2900 | 13000 | 5630 | 25000 | LR5205KDDU |
| 4850 | 21600 | 3350 | 14900 | 4150 | 18500 | 2900 | 13000 | 5630 | 25000 | LR5205KDD |
| 4850 | 21600 | 3350 | 14900 | 4150 | 18500 | 2900 | 13000 | 5630 | 25000 | LR5205NPPU |
| 4450 | 20300 | 3500 | 15600 | 3550 | 15800 | 2650 | 11800 | 4100 | 18200 | LR5006NPPU |
| 5800 | 24500 | 4800 | 21400 | 3900 | 17600 | 2950 | 13100 | 3170 | 14100 | LR5007NPPU |
| 7300 | 32500 | 4850 | 21600 | 6200 | 27500 | 4400 | 19500 | 7760 | 34500 | LR5305KDD |
| 7300 | 32500 | 4850 | 21600 | 6200 | 27500 | 4400 | 19500 | 7760 | 34500 | LR5305KDDU |
| 7300 | 32500 | 4850 | 21600 | 6200 | 27500 | 4400 | 19500 | 7760 | 34500 | LR5305NPPU |
| 6700 | 30000 | 4800 | 21300 | 5500 | 24600 | 4000 | 17700 | 6640 | 29500 | LR5206KDD |
| 6700 | 30000 | 4800 | 21300 | 5500 | 24600 | 4000 | 17700 | 6640 | 29500 | LR5206KDDU |
| 6700 | 30000 | 4800 | 21300 | 5500 | 24600 | 4000 | 17700 | 6640 | 29500 | LR5206NPPU |
| 10200 | 45500 | 7100 | 31500 | 8200 | 36500 | 6000 | 26500 | 9790 | 43500 | LR5306NPPU |
| 8900 | 39500 | 6500 | 29000 | 6900 | 30500 | 5000 | 22400 | 6410 | 28500 | LR5207KDD |
| 8900 | 39500 | 6500 | 29000 | 6900 | 30500 | 5000 | 22400 | 6410 | 28500 | LR5207KDDU |
| 8900 | 39500 | 6500 | 29000 | 6900 | 30500 | 5000 | 22400 | 6410 | 28500 | LR5207NPPU |

# Yoke Type Track Rollers

## LR5... SERIES

- Ball bearing type
- Double row angular contact
- Thick walled outer ring

**When operating against a flat raceway or cam plate, the effective load ratings $C_w$ and $C_{0w}$ and the limiting radial loads Fr and For must be used due to the elastic deformation of the outer ring. With track rollers where Frperm< $C_w$, the dynamic loading may not be greater than Fr perm.**




**LR5..KDDU** **LR5..NPPU**

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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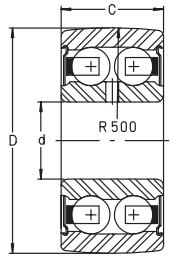
| PART NUMBER | SHAFT d inch | SHAFT d mm | TIRE OD D inch | TIRE OD D mm | WIDTH C inch | WIDTH C mm | WEIGHT lbs | WEIGHT kg | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|
| LR5208KDD | 1.575 | 40 | 3.347 | 85 | 1.189 | 30.2 | 1.654 | 0.75 | 5000 |
| LR5208KDDU | 1.575 | 40 | 3.347 | 85 | 1.189 | 30.2 | 1.654 | 0.75 | 5000 |
| LR5208NPPU | 1.575 | 40 | 3.347 | 85 | 1.189 | 30.2 | 1.654 | 0.75 | 5000 |
| LR5307KDD | 1.378 | 35 | 3.543 | 90 | 1.374 | 34.9 | 2.139 | 0.97 | 5100 |
| LR5307KDDU | 1.378 | 35 | 3.543 | 90 | 1.374 | 34.9 | 2.139 | 0.97 | 5100 |
| LR5307NPPU | 1.378 | 35 | 3.543 | 90 | 1.374 | 34.9 | 2.139 | 0.97 | 5100 |
| LR5308KDD | 1.575 | 40 | 3.937 | 100 | 1.437 | 36.5 | 2.646 | 1.2 | 4700 |
| LR5308KDDU | 1.575 | 40 | 3.937 | 100 | 1.437 | 36.5 | 2.646 | 1.2 | 4700 |
| LR5308NPPU | 1.575 | 40 | 3.937 | 100 | 1.437 | 36.5 | 2.646 | 1.2 | 4700 |

# Yoke Type Track Rollers

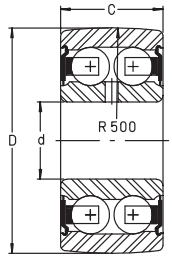
## LR5... SERIES

- Ball bearing type
- Double row angular contact
- Thick walled outer ring

**When operating against a flat raceway or cam plate, the effective load ratings $C_w$ and $C_{0w}$ and the limiting radial loads Fr and For must be used due to the elastic deformation of the outer ring. With track rollers where Frperm< $C_w$, the dynamic loading may not be greater than Fr perm.**




LR5..KDDU



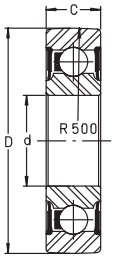

LR5..NPPU

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | EFFECTIVE DYN. CAP. $C_w$ lbf | EFFECTIVE DYN. CAP. $C_w$ N | EFFECTIVE DYN. CAP. $C_{0w}$ lbf | EFFECTIVE DYN. CAP. $C_{0w}$ N | LIMITING Frperm lbf | LIMITING Frperm N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|
| 11300 | 50000 | 8500 | 37500 | 7800 | 34500 | 5700 | 25500 | 4680 | 20800 | LR5208KDD |
| 11300 | 50000 | 8500 | 37500 | 7800 | 34500 | 5700 | 25500 | 4680 | 20800 | LR5208KDDU |
| 11300 | 50000 | 8500 | 37500 | 7800 | 34500 | 5700 | 25500 | 4680 | 20800 | LR5208NPPU |
| 12700 | 56000 | 8900 | 39500 | 10000 | 44500 | 7400 | 33000 | 8890 | 39500 | LR5307KDD |
| 12700 | 56000 | 8900 | 39500 | 10000 | 44500 | 7400 | 33000 | 8890 | 39500 | LR5307KDDU |
| 12700 | 56000 | 8900 | 39500 | 10000 | 44500 | 7400 | 33000 | 8890 | 39500 | LR5307NPPU |
| 15400 | 69000 | 11100 | 49500 | 12600 | 56000 | 9400 | 42000 | 15700 | 70000 | LR5308KDD |
| 15400 | 69000 | 11100 | 49500 | 12600 | 56000 | 9400 | 42000 | 15700 | 70000 | LR5308KDDU |
| 15400 | 69000 | 11100 | 49500 | 12600 | 56000 | 9400 | 42000 | 15700 | 70000 | LR5308NPPU |

# Yoke Type Track Rollers

## LR6 & LR2 SERIES




- Ball bearing type
- Single row conrad type
- Shielded or sealed
- Thick walled outer ring

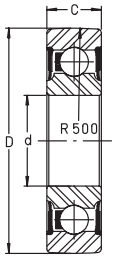
**When operating against a flat raceway or cam plate, the effective load ratings $C_w$ and $C_{0w}$ and the limiting radial loads Fr and For must be used due to the elastic deformation of the outer ring. With track rollers where Frperm< $C_w$, the dynamic loading may not be greater than Fr perm.**

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | TIRE OD D inch | TIRE OD D mm | WIDTH C inch | WIDTH C mm | WEIGHT lbs | WEIGHT kg | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|
| LR604NPPU | 0.157 | 4 | 0.512 | 13 | 0.157 | 4 | 0.022 | 0.01 | 40000 |
| LR605NPPU | 0.197 | 5 | 0.630 | 16 | 0.197 | 5 | 0.022 | 0.01 | 38000 |
| LR605KDDU | 0.197 | 5 | 0.630 | 16 | 0.197 | 5 | 0.022 | 0.01 | 38000 |
| LR606NPPU | 0.236 | 6 | 0.748 | 19 | 0.236 | 6 | 0.022 | 0.01 | 36000 |
| LR606KDDU | 0.236 | 6 | 0.748 | 19 | 0.236 | 6 | 0.022 | 0.01 | 36000 |
| LR607NPPU | 0.276 | 7 | 0.866 | 22 | 0.236 | 6 | 0.022 | 0.01 | 34000 |
| LR607KDDU | 0.276 | 7 | 0.866 | 22 | 0.236 | 6 | 0.022 | 0.01 | 34000 |
| LR608NPPU | 0.315 | 8 | 0.945 | 24 | 0.276 | 7 | 0.044 | 0.02 | 32000 |
| LR608KDDU | 0.315 | 8 | 0.945 | 24 | 0.276 | 7 | 0.044 | 0.02 | 32000 |
| LR6000 NPPU | 0.394 | 10 | 1.102 | 28 | 0.315 | 8 | 0.044 | 0.02 | 28000 |
| LR6001 NPPU | 0.474 | 12 | 1.181 | 30 | 0.315 | 8 | 0.066 | 0.03 | 26000 |
| LR200NPPU | 0.394 | 10 | 1.260 | 32 | 0.354 | 9 | 0.11 | 0.05 | 16000 |
| LR200KDD | 0.394 | 10 | 1.260 | 32 | 0.354 | 9 | 0.11 | 0.05 | 16000 |
| LR200NPP | 0.394 | 10 | 1.260 | 32 | 0.354 | 9 | 0.11 | 0.05 | 16000 |
| LR201NPPU | 0.474 | 12 | 1.378 | 35 | 0.394 | 10 | 0.11 | 0.05 | 15000 |
| LR201NPP | 0.474 | 12 | 1.378 | 35 | 0.394 | 10 | 0.11 | 0.05 | 15000 |
| LR6002 NPPU | 0.591 | 15 | 1.378 | 35 | 0.354 | 9 | 0.11 | 0.05 | 22000 |
| LR202NPPU | 0.591 | 15 | 1.575 | 40 | 0.433 | 11 | 0.154 | 0.07 | 14000 |
| LR202NPP | 0.591 | 15 | 1.575 | 40 | 0.433 | 11 | 0.154 | 0.07 | 14000 |
| LR6003 NPPU | 0.669 | 17 | 1.575 | 40 | 0.394 | 10 | 0.154 | 0.07 | 19000 |
| LR203NPPU | 0.669 | 17 | 1.850 | 47 | 0.474 | 12 | 0.243 | 0.11 | 11000 |
| LR203NPP | 0.669 | 17 | 1.850 | 47 | 0.474 | 12 | 0.243 | 0.11 | 11000 |
| LR6004 NPPU | 0.787 | 20 | 1.850 | 47 | 0.474 | 12 | 0.243 | 0.11 | 17000 |
| LR204NPPU | 0.787 | 20 | 2.047 | 52 | 0.551 | 14 | 0.331 | 0.15 | 10000 |
| LR204NPP | 0.787 | 20 | 2.047 | 52 | 0.551 | 14 | 0.331 | 0.15 | 10000 |
| LR205NPPU | 0.984 | 25 | 2.441 | 62 | 0.591 | 15 | 0.507 | 0.23 | 9000 |
| LR205NPP | 0.984 | 25 | 2.441 | 62 | 0.591 | 15 | 0.507 | 0.23 | 9000 |
| LR206NPPU | 1.181 | 30 | 2.835 | 72 | 0.63 | 16 | 0.728 | 0.33 | 7100 |
| LR206NPP | 1.181 | 30 | 2.835 | 72 | 0.63 | 16 | 0.728 | 0.33 | 7100 |
| LR207NPPU | 1.378 | 35 | 3.150 | 80 | 0.669 | 17 | 0.882 | 0.4 | 5600 |
| LR207NPP | 1.378 | 35 | 3.150 | 80 | 0.669 | 17 | 0.882 | 0.4 | 5600 |
| LR208NPPU | 1.575 | 40 | 3.347 | 85 | 0.709 | 18 | 0.992 | 0.45 | 5000 |
| LR208NPP | 1.575 | 40 | 3.347 | 85 | 0.709 | 18 | 0.992 | 0.45 | 5000 |
| LR209NPPU | 1.772 | 45 | 3.543 | 90 | 0.748 | 19 | 1.103 | 0.5 | 4500 |
| LR209NPP | 1.772 | 45 | 3.543 | 90 | 0.748 | 19 | 1.103 | 0.5 | 4500 |

# Yoke Type Track Rollers

## LR6 & LR2 SERIES




- Ball bearing type
- Single row conrad type
- Shielded or sealed
- Thick walled outer ring

**When operating against a flat raceway or cam plate, the effective load ratings $C_w$ and $C_{0w}$ and the limiting radial loads Fr and For must be used due to the elastic deformation of the outer ring. With track rollers where Frperm< $C_w$, the dynamic loading may not be greater than Fr perm.**

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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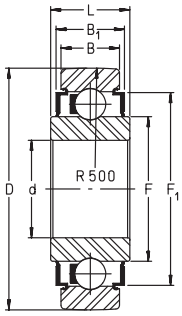
| DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | EFFECTIVE DYN. CAP. $C_w$ lbf | EFFECTIVE DYN. CAP. $C_w$ N | EFFECTIVE DYN. CAP. $C_{0w}$ lbf | EFFECTIVE DYN. CAP. $C_{0w}$ N | LIMITING Frperm lbf | LIMITING Frperm N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|
| 218 | 970 | 81 | 360 | 194 | 860 | 79 | 350 | 160 | 700 | LR604NPPU |
| 299 | 1330 | 113 | 500 | 268 | 1190 | 110 | 490 | 220 | 980 | LR605NPPU |
| 299 | 1330 | 113 | 500 | 268 | 1190 | 110 | 490 | 220 | 980 | LR605KDDU |
| 443 | 1970 | 167 | 740 | 392 | 1740 | 158 | 700 | 320 | 1400 | LR606NPPU |
| 443 | 1970 | 167 | 740 | 392 | 1740 | 158 | 700 | 320 | 1400 | LR606KDDU |
| 527 | 2340 | 200 | 890 | 479 | 2130 | 196 | 870 | 390 | 1740 | LR607NPPU |
| 527 | 2340 | 200 | 8970 | 479 | 2130 | 196 | 870 | 390 | 1740 | LR607KDDU |
| 743 | 3300 | 304 | 1350 | 619 | 2750 | 281 | 1250 | 560 | 2500 | LR608NPPU |
| 743 | 3300 | 304 | 1350 | 619 | 2750 | 281 | 1250 | 560 | 2500 | LR608KDDU |
| 1035 | 4600 | 441 | 1960 | 821 | 3650 | 383 | 1700 | 570 | 2550 | LR6000 NPPU |
| 1148 | 5100 | 529 | 2350 | 968 | 4300 | 473 | 2100 | 920 | 4100 | LR6001 NPPU |
| 1150 | 5100 | 530 | 2370 | 980 | 4350 | 480 | 2130 | 960 | 4260 | LR200NPPU |
| 1150 | 5100 | 530 | 2370 | 980 | 4350 | 480 | 2130 | 960 | 4260 | LR200KDD |
| 1150 | 5100 | 530 | 2370 | 980 | 4350 | 480 | 2130 | 960 | 4260 | LR200NPP |
| 1530 | 6800 | 686 | 3050 | 1260 | 5600 | 608 | 2700 | 1010 | 4500 | LR201NPPU |
| 1530 | 6800 | 686 | 3050 | 1260 | 5600 | 608 | 2700 | 1010 | 4500 | LR201NPP |
| 1260 | 5600 | 640 | 2850 | 1013 | 4500 | 518 | 2300 | 1040 | 4600 | LR6002 NPPU |
| 1710 | 7600 | 830 | 3700 | 1463 | 6500 | 740 | 3300 | 1490 | 6600 | LR202NPPU |
| 1710 | 7600 | 830 | 3700 | 1463 | 6500 | 740 | 3300 | 1490 | 6600 | LR202NPP |
| 1350 | 6000 | 725 | 3220 | 1215 | 5400 | 673 | 2990 | 1350 | 5980 | LR6003 NPPU |
| 2160 | 9600 | 1070 | 4750 | 1890 | 8400 | 990 | 4400 | 1980 | 8800 | LR203NPPU |
| 2160 | 9600 | 1070 | 4750 | 1890 | 8400 | 990 | 4400 | 1980 | 8800 | LR203NPP |
| 2115 | 9400 | 1125 | 5000 | 1508 | 6700 | 803 | 3570 | 1050 | 4650 | LR6004 NPPU |
| 2880 | 12800 | 1485 | 6600 | 2360 | 10500 | 1260 | 5600 | 2410 | 10700 | LR204NPPU |
| 2880 | 12800 | 1485 | 6600 | 2360 | 10500 | 1260 | 5600 | 2410 | 10700 | LR204NPP |
| 3150 | 14000 | 1755 | 7800 | 2810 | 12500 | 1600 | 7100 | 3200 | 14200 | LR205NPPU |
| 3150 | 14000 | 1755 | 7800 | 2810 | 12500 | 1600 | 7100 | 3200 | 14200 | LR205NPP |
| 4390 | 19500 | 2540 | 11300 | 3735 | 16600 | 2160 | 9600 | 4320 | 19200 | LR206NPPU |
| 4390 | 19500 | 2540 | 11300 | 3735 | 16600 | 2160 | 9600 | 4320 | 19200 | LR206NPP |
| 5740 | 25500 | 3440 | 15300 | 4545 | 20200 | 2680 | 11900 | 4390 | 19500 | LR207NPPU |
| 5740 | 25500 | 3440 | 15300 | 4545 | 20200 | 2680 | 11900 | 4390 | 19500 | LR207NPP |
| 7310 | 32500 | 4460 | 19800 | 5130 | 22800 | 3060 | 13600 | 3020 | 13400 | LR208NPPU |
| 7310 | 32500 | 4460 | 19800 | 5130 | 22800 | 3060 | 13600 | 3020 | 13400 | LR208NPP |
| 7310 | 32500 | 4590 | 20400 | 5060 | 22500 | 3080 | 13700 | 2990 | 13300 | LR209NPPU |
| 7310 | 32500 | 4590 | 20400 | 5060 | 22500 | 3080 | 13700 | 2990 | 13300 | LR209NPP |

# Yoke Type Track Rollers

## LR2.. SERIES

- Single row
- Conrad ball bearing type
- Extended inner ring
- R type lip seals with extra grease capacity
- U indicates crowned OD

**When operating against a flat raceway or cam plate, the effective load ratings $C_w$ and $C_0w$ and the limiting radial loads Fr and For must be used due to the elastic deformation of the outer ring. With track rollers where Frperm< $C_w$, the dynamic loading may not be greater than Fr perm.**




LR..RRU

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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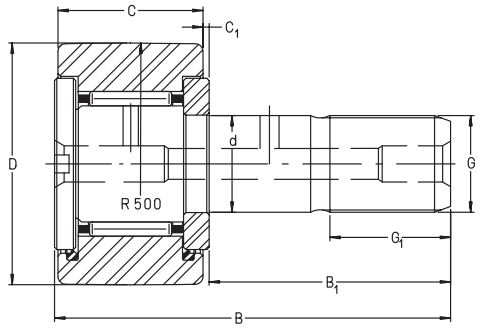
| PART NUMBER | d inch | d mm | D inch | D mm | B inch | B mm | $B_1$ inch | $B_1$ mm | F inch | F mm | $F_1$ inch | $F_1$ mm | L inch | L mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LR201RRU | 0.472 | 12 | 1.378 | 35 | 0.394 | 10 | _ | _ | 0.728 | 18.5 | _ | _ | 0.591 | 15 | 0.15 | 0.07 |
| LR201RR | 0.472 | 12 | 1.378 | 35 | 0.394 | 10 | _ | _ | 0.728 | 18.5 | _ | _ | 0.591 | 15 | 0.15 | 0.07 |
| LR202RRU | 0.591 | 15 | 1.5748 | 40 | 0.433 | 11 | _ | _ | 0.847 | 21.5 | _ | _ | 0.567 | 14.4 | 0.18 | 0.08 |
| LR202RR | 0.591 | 15 | 1.5748 | 40 | 0.433 | 11 | _ | _ | 0.847 | 21.5 | _ | _ | 0.567 | 14.4 | 0.18 | 0.08 |
| LR203RRU | 0.669 | 17 | 1.8504 | 47 | 0.472 | 12 | _ | _ | 0.965 | 24.5 | _ | _ | 0.721 | 18.3 | 0.24 | 0.11 |
| LR203RR | 0.669 | 17 | 1.8504 | 47 | 0.472 | 12 | _ | _ | 0.965 | 24.5 | _ | _ | 0.721 | 18.3 | 0.24 | 0.11 |
| LR204RRU | 0.787 | 20 | 2.0472 | 52 | 0.551 | 14 | _ | _ | 1.13 | 28.7 | _ | _ | 0.697 | 17.7 | 0.35 | 0.16 |
| LR204RR | 0.787 | 20 | 2.0472 | 52 | 0.551 | 14 | _ | _ | 1.13 | 28.7 | _ | _ | 0.697 | 17.7 | 0.35 | 0.16 |
| LR205RRU | 0.984 | 25 | 2.4409 | 62 | 0.591 | 15 | 0.658 | 16.7 | 1.331 | 33.8 | 1.677 | 42.6 | 0.827 | 21 | 0.57 | 0.26 |
| LR205RR | 0.984 | 25 | 2.4409 | 62 | 0.591 | 15 | 0.658 | 16.7 | 1.331 | 33.8 | 1.677 | 42.6 | 0.827 | 21 | 0.57 | 0.26 |
| LR206RRU | 1.181 | 30 | 2.8346 | 72 | 0.63 | 16 | 0.772 | 19.6 | 1.587 | 40.3 | 2.047 | 52 | 0.945 | 24 | 0.82 | 0.37 |
| LR206RR | 1.181 | 30 | 2.8346 | 72 | 0.63 | 16 | 0.772 | 19.6 | 1.587 | 40.3 | 2.047 | 52 | 0.945 | 24 | 0.82 | 0.37 |
| LR207RRU | 1.378 | 35 | 3.1496 | 80 | 0.669 | 17 | 0.776 | 19.7 | 1.843 | 46.8 | 2.374 | 60.3 | 0.984 | 25 | 1.06 | 0.48 |
| LR207RR | 1.378 | 35 | 3.1496 | 80 | 0.669 | 17 | 0.776 | 19.7 | 1.843 | 46.8 | 2.374 | 60.3 | 0.984 | 25 | 1.06 | 0.48 |
| LR208RRU | 1.575 | 40 | 3.3465 | 85 | 0.709 | 18 | 0.807 | 20.5 | 2.059 | 52.3 | 2.685 | 68.2 | 1.063 | 27 | 1.17 | 0.53 |
| LR208RR | 1.575 | 40 | 3.3465 | 85 | 0.709 | 18 | 0.807 | 20.5 | 2.059 | 52.3 | 2.685 | 68.2 | 1.063 | 27 | 1.17 | 0.53 |

**CONTINUED FROM ABOVE**

| PART NUMBER | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | EFFECTIVE DYN. CAP. $C_w$ lbf | EFFECTIVE DYN. CAP. $C_w$ N | EFFECTIVE DYN. CAP. $C_{0w}$ lbf | EFFECTIVE DYN. CAP. $C_{0w}$ N | LIMITING Frperm lbf | LIMITING Frperm N | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| LR201RRU | 15000 | 1530 | 6800 | 686 | 3050 | 1260 | 5600 | 608 | 2700 | 1010 | 4500 |
| LR201RR | 15000 | 1530 | 6800 | 686 | 3050 | 1260 | 5600 | 608 | 2700 | 1010 | 4500 |
| LR202RRU | 14000 | 1710 | 7600 | 830 | 3700 | 1463 | 6500 | 740 | 3300 | 1490 | 6600 |
| LR202RR | 14000 | 1710 | 7600 | 830 | 3700 | 1463 | 6500 | 740 | 3300 | 1490 | 6600 |
| LR203RRU | 11000 | 2160 | 9600 | 1070 | 4750 | 1890 | 8400 | 990 | 4400 | 1980 | 8800 |
| LR203RR | 11000 | 2160 | 9600 | 1070 | 4750 | 1890 | 8400 | 990 | 4400 | 1980 | 8800 |
| LR204RRU | 10000 | 2880 | 12800 | 1485 | 6600 | 2360 | 10500 | 1260 | 5600 | 2410 | 10700 |
| LR204RR | 10000 | 2880 | 12800 | 1485 | 6600 | 2360 | 10500 | 1260 | 5600 | 2410 | 10700 |
| LR205RRU | 9000 | 3150 | 14000 | 1755 | 7800 | 2810 | 12500 | 1600 | 7100 | 3200 | 14200 |
| LR205RR | 9000 | 3150 | 14000 | 1755 | 7800 | 2810 | 12500 | 1600 | 7100 | 3200 | 14200 |
| LR206RRU | 7100 | 4390 | 19500 | 2540 | 11300 | 3735 | 16600 | 2160 | 9600 | 4320 | 19200 |
| LR206RR | 7100 | 4390 | 19500 | 2540 | 11300 | 3735 | 16600 | 2160 | 9600 | 4320 | 19200 |
| LR207RRU | 5600 | 5740 | 25500 | 3440 | 15300 | 4545 | 20200 | 2680 | 11900 | 4390 | 19500 |
| LR207RR | 5600 | 5740 | 25500 | 3440 | 15300 | 4545 | 20200 | 2680 | 11900 | 4390 | 19500 |
| LR208RRU | 5000 | 7310 | 22800 | 4460 | 19800 | 5130 | 22800 | 3060 | 13600 | 3020 | 13400 |
| LR208RR | 5000 | 7310 | 22800 | 4460 | 19800 | 5130 | 22800 | 3060 | 13600 | 3020 | 13400 |

# Stud Type Cam Follower Selector
## INCH AND METRIC SERIES

- Sorted by Tire OD
- All metric versions available with a cylindrical tire OD – suffix X
- All versions available with seals – suffix PP
- All inch versions available with a crowned tire OD – suffix Y
- All versions available with eccentric sleeve for adjustment by – prefix E
- Series specific details can be found on subsequent pages.
  Please refer to Section Contents or Index for the correct page numbers.



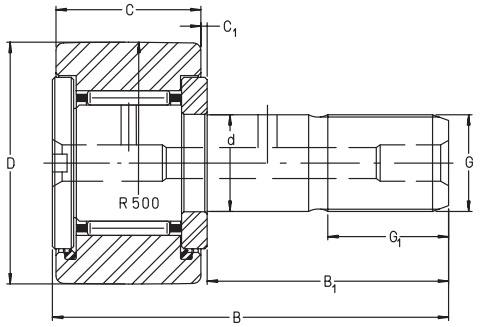

KR SHOWN FOR DIMENSION REFERENCE ONLY

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | TIRE OD D inch | TIRE OD D mm | STUD DIA. d inch | STUD DIA. d mm | TIRE WIDTH C inch | TIRE WIDTH C mm | TOTAL LENGTH B inch | TOTAL LENGTH B mm | WEIGHT lbs | WEIGHT g | THREADS G |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CF8–1 | 0.5 | 12.7 | 0.19 | 4.826 | 0.375 | 9.525 | 1.032 | 26.2 | 0.024 | 11 | 10–32 UNF |
| CF10–1 | 0.625 | 15.875 | 0.25 | 6.35 | 0.438 | 11.113 | 1.221 | 31 | 0.044 | 20 | 1/4–28 UNF |
| KRV 16 | 0.630 | 16 | 0.236 | 6 | 0.433 | 11 | 1.102 | 28 | 0.044 | 20 | M6 |
| KR 16 | 0.630 | 16 | 0.236 | 6 | 0.433 | 11 | 1.102 | 28 | 0.044 | 20 | M6 |
| KRV 19 | 0.748 | 19 | 0.315 | 8 | 0.433 | 11 | 1.260 | 32 | 0.071 | 32 | M8 |
| KR 19 | 0.748 | 19 | 0.315 | 8 | 0.433 | 11 | 1.260 | 32 | 0.071 | 32 | M8 |
| CF12 | 0.75 | 19.05 | 0.375 | 9.525 | 0.500 | 12.7 | 1.406 | 35.7 | 0.075 | 34 | 3/8–24 UNF |
| KRV 22 | 0.866 | 22 | 0.394 | 10 | 0.472 | 12 | 1.417 | 36 | 0.099 | 45 | M10x1 |
| KR 22 | 0.866 | 22 | 0.394 | 10 | 0.472 | 12 | 1.417 | 36 | 0.099 | 45 | M10x1 |
| CF14 | 0.875 | 22.225 | 0.375 | 9.525 | 0.500 | 12.7 | 1.406 | 35.7 | 0.099 | 45 | 3/8–24 UNF |
| CF16 | 1 | 25.4 | 0.4375 | 11.112 | 0.625 | 15.875 | 1.654 | 42 | 0.159 | 72 | 7/16–20 UNF |
| KRV 26 | 1.024 | 26 | 0.394 | 10 | 0.472 | 12 | 1.417 | 36 | 0.135 | 61 | M10x1 |
| KR 26 | 1.024 | 26 | 0.394 | 10 | 0.472 | 12 | 1.417 | 36 | 0.135 | 61 | M10x1 |
| CF18 | 1.125 | 28.575 | 0.4375 | 11.112 | 0.625 | 15.875 | 1.654 | 42 | 0.194 | 88 | 7/16–20 UNF |
| KRV 30 | 1.181 | 30 | 0.472 | 12 | 0.551 | 14 | 1.575 | 40 | 0.196 | 89 | M12x1.5 |
| KR 30 | 1.181 | 30 | 0.472 | 12 | 0.551 | 14 | 1.575 | 40 | 0.196 | 89 | M12x1.5 |
| CF20 | 1.25 | 31.75 | 0.5 | 12.7 | 0.750 | 19.05 | 2.032 | 51.6 | 0.300 | 136 | 1/2–20 UNF |
| KRV 32 | 1.260 | 32 | 0.472 | 12 | 0.551 | 14 | 1.575 | 40 | 0.221 | 100 | M12x1.5 |
| KR 32 | 1.260 | 32 | 0.472 | 12 | 0.551 | 14 | 1.575 | 40 | 0.221 | 100 | M12x1.5 |
| CF22 | 1.375 | 34.925 | 0.5 | 12.7 | 0.750 | 19.05 | 2.032 | 51.6 | 0.348 | 158 | 1/2–20 UNF |
| KRV 35 | 1.378 | 35 | 0.630 | 16 | 0.709 | 18 | 2.047 | 52 | 0.377 | 171 | M16x1.5 |
| KR 35 | 1.378 | 35 | 0.630 | 16 | 0.709 | 18 | 2.047 | 52 | 0.377 | 171 | M16x1.5 |
| NUKR 35 | 1.378 | 35 | 0.630 | 16 | 0.709 | 18 | 2.047 | 52 | 0.362 | 164 | M 16x1.5 |
| PWKR 35 2RS | 1.378 | 35 | 0.630 | 16 | 0.709 | 18 | 2.047 | 52 | 0.362 | 164 | M 16x1.5 |
| CF24 | 1.5 | 38.1 | 0.625 | 15.875 | 0.875 | 22.225 | 2.406 | 61.1 | 0.525 | 238 | 5/8–18 UNF |
| KRV 40 | 1.575 | 40 | 0.709 | 18 | 0.787 | 20 | 2.284 | 58 | 0.549 | 249 | M18x1.5 |
| KR 40 | 1.575 | 40 | 0.709 | 18 | 0.787 | 20 | 2.284 | 58 | 0.549 | 249 | M18x1.5 |
| NUKR 40 | 1.575 | 40 | 0.709 | 18 | 0.787 | 20 | 2.284 | 58 | 0.534 | 242 | M 18x1.5 |
| PWKR 40 2RS | 1.575 | 40 | 0.709 | 18 | 0.787 | 20 | 2.284 | 58 | 0.534 | 242 | M 18x1.5 |
| CF26 | 1.625 | 41.275 | 0.625 | 15.875 | 0.875 | 22.225 | 2.406 | 61.1 | 0.598 | 271 | 5/8–18 UNF |
| CF28 | 1.75 | 44.45 | 0.75 | 19.05 | 1.000 | 25.4 | 2.780 | 70.6 | 0.827 | 375 | 3/4–16 UNF |
| KRV 47 | 1.850 | 47 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.86 | 390 | M20x1.5 |
| KR 47 | 1.850 | 47 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.86 | 390 | M20x1.5 |
| NUKR 47 | 1.850 | 47 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.838 | 380 | M 20x1.5 |
| PWKR 47 2RS | 1.850 | 47 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.838 | 380 | M 20x1.5 |
| CF30 | 1.875 | 47.625 | 0.75 | 19.05 | 1.000 | 25.4 | 2.780 | 70.6 | 0.924 | 419 | 3/4–16 UNF |
| CF32 | 2 | 50.8 | 0.875 | 22.225 | 1.250 | 31.75 | 3.280 | 83.3 | 1.352 | 613 | 7/8–14 UNF |
| KRV 52 | 2.047 | 52 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 1.025 | 465 | M20x1.5 |
| KR 52 | 2.047 | 52 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 1.025 | 465 | M20x1.5 |
| NUKR 52 | 2.047 | 52 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.992 | 450 | M 20x1.5 |
| PWKR 52 2RS | 2.047 | 52 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.992 | 450 | M 20x1.5 |
| CF36 | 2.25 | 57.15 | 0.875 | 22.225 | 1.250 | 31.75 | 3.280 | 83.3 | 1.636 | 742 | 7/8–14 UNF |
| KRV 62 | 2.441 | 62 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 1.768 | 802 | M24x1.5 |
| KR 62 | 2.441 | 62 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 1.768 | 802 | M24x1.5 |
| NUKR 62 | 2.441 | 62 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 1.753 | 795 | M 24x1.5 |
| PWKR 62 2RS | 2.441 | 62 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 1.753 | 795 | M 24x1.5 |

# Stud Type Cam Follower Selector
## INCH AND METRIC SERIES

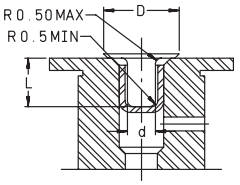
- Sorted by Tire OD
- All metric versions available with a cylindrical tire OD – suffix X
- All versions available with seals – suffix PP
- All inch versions available with a crowned tire OD – suffix Y
- All versions available with eccentric sleeve for adjustment by – prefix E
- Series specific details can be found on subsequent pages.
  Please refer to Section Contents or Index for the correct page numbers.




**KR SHOWN FOR DIMENSION REFERENCE ONLY**

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

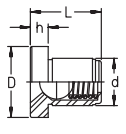
| PART NUMBER | TIRE OD D inch | TIRE OD D mm | STUD DIA. d inch | STUD DIA. d mm | TIRE WIDTH C inch | TIRE WIDTH C mm | TOTAL LENGTH B inch | TOTAL LENGTH B mm | WEIGHT lbs | WEIGHT g | THREADS G |
|---|---|---|---|---|---|---|---|---|---|---|---|
| CF40 | 2.5 | 63.5 | 1 | 25.4 | 1.500 | 38.1 | 3.780 | 96 | 2.421 | 1098 | 1–14 UNF |
| CF44 | 2.75 | 69.85 | 1 | 25.4 | 1.500 | 38.1 | 3.780 | 96 | 2.867 | 1300 | 1–14 UNF |
| KRV 72 | 2.835 | 72 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 2.304 | 1045 | M24x1.5 |
| KR 72 | 2.835 | 72 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 2.304 | 1045 | M24x1.5 |
| NUKR 72 | 2.835 | 72 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 2.249 | 1020 | M 24x1.5 |
| PWKR 72 2RS | 2.835 | 72 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 2.249 | 1020 | M 24x1.5 |
| CF48 | 3 | 76.2 | 1.25 | 31.75 | 1.750 | 44.45 | 4.280 | 108.7 | 4.123 | 1870 | 1–1/4–12 UNF |
| KRV 80 | 3.150 | 80 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 3.442 | 1561 | M30x1.5 |
| KR 80 | 3.150 | 80 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 3.442 | 1561 | M30x1.5 |
| NUKR 80 | 3.150 | 80 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 3.528 | 1600 | M 30x1.5 |
| PWKR 80 2RS | 3.150 | 80 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 3.528 | 1600 | M 30x1.5 |
| CF52 | 3.25 | 82.55 | 1.75 | 44.45 | 1.750 | 44.45 | 4.280 | 108.7 | 5.733 | 2600 | 1–1/4–12 UNF |
| KR 85 | 3.347 | 85 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 3.837 | 1740 | M30x1.6 |
| KRV 90 | 3.543 | 90 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 4.344 | 1970 | M30x1.5 |
| KR 90 | 3.543 | 90 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 4.344 | 1970 | M30x1.5 |
| NUKR 90 | 3.543 | 90 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 4.322 | 1960 | M 30x1.5 |
| PWKR 90 2RS | 3.543 | 90 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 4.322 | 1960 | M 30x1.5 |
| CF64 | 4 | 101.6 | 1.5 | 38.1 | 2.250 | 57.15 | 5.780 | 146.8 | 9.316 | 4225 | 1–1/2–12UNF |




# Closing Plugs
## VD SERIES

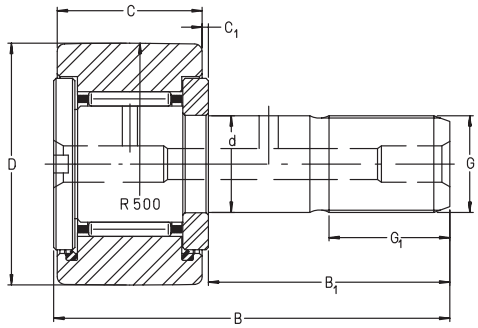
| PART NUMBER | NOM. HOLE inch | NOM. HOLE mm | d inch | d mm | D inch | D mm | L inch | L mm | WEIGHT PER 1000 lbs | WEIGHT PER 1000 kg | MATING CAM FOLLOWERS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| VD 1 A | 0.157 | 4 | 0.106 | 2.7 | 0.394 | 10 | 0.205 | 5.2 | 0.221 | 0.1 | METRIC SIZES 16 THRU 26 |
| VD 2 A | 0.236 | 6 | 0.185 | 4.7 | 0.472 | 12 | 0.287 | 7.3 | 0.221 | 0.1 | METRIC SIZES 30 THRU 40 |
| VD 3 A | 0.315 | 8 | 0.264 | 6.7 | 0.591 | 15 | 0.394 | 10 | 0.441 | 0.2 | METRIC SIZES 47 THRU 90 |
| VD 7 A | 0.126 | 3.2 | 0.094 | 2.4 | 0.335 | 8.5 | 0.169 | 4.3 | 0.221 | 0.1 | CF 8–1 THRU CF 10–1 |
| VD 5 A | 0.189 | 4.8 | 0.138 | 3.5 | 0.433 | 11 | 0.217 | 5.5 | 0.221 | 0.1 | CF 12 THRU CF 44 |
| VD 6 A | 0.252 | 6.4 | 0.201 | 5.1 | 0.512 | 13 | 0.295 | 7.5 | 1.103 | 0.5 | CF 48 THRU CF64 |

# Lubrication Nipples
## NIP SERIES




| PART NUMBER | d inch | d mm | D inch | D mm | L inch | L mm | h inch | h mm | WEIGHT PER 1000 lbs | WEIGHT PER 1000 kg | MATING CAM FOLLOWERS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NIP A 1 | 0.157 | 4 | 0.236 | 6 | 0.236 | 6 | 0.059 | 1.5 | 0.441 | 0.2 | METRIC SIZES 16 THRU 26 |
| NIP A 2 | 0.236 | 6 | 0.315 | 8 | 0.354 | 9 | 0.079 | 2 | 0.441 | 0.2 | METRIC SIZES 30 THRU 40 |
| NIP A 3 | 0.315 | 8 | 0.394 | 10 | 0.472 | 12 | 0.118 | 3 | 0.441 | 0.3 | METRIC SIZES 47 THRU 90 |

# Stud Type Cam Followers
## KR SERIES




- Cage guided needle rollers
- Metric
- Accepts thrust through flange
- All versions available with seals – suffix PP
- All versions available with a cylindrical tire OD – suffix X
- Available with hex socket – suffix SK
- Available with eccentric sleeve – prefix E

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | TIRE OD D inch | TIRE OD D mm | STUD DIA. d inch | STUD DIA. d mm | TIRE WIDTH C inch | TIRE WIDTH C mm | LENGTH B inch | LENGTH B mm | WEIGHT lbs | WEIGHT g | EFFECT. DYN. CAP. Cw lbf | EFFECT. DYN. CAP. Cw N | EFFECT. STAT. CAP. $C_0w$ lbf | EFFECT. STAT. CAP. $C_0w$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KR 16 | 0.630 | 16 | 0.236 | 6 | 0.433 | 11 | 1.102 | 28 | 0.044 | 20 | 710 | 3150 | 740 | 3300 |
| KR 19 | 0.748 | 19 | 0.315 | 8 | 0.433 | 11 | 1.260 | 32 | 0.071 | 32 | 790 | 3500 | 880 | 3900 |
| KR 22 | 0.866 | 22 | 0.394 | 10 | 0.472 | 12 | 1.417 | 36 | 0.099 | 45 | 1,000 | 4450 | 1,170 | 5200 |
| KR 26 | 1.024 | 26 | 0.394 | 10 | 0.472 | 12 | 1.417 | 36 | 0.135 | 61 | 1,150 | 5100 | 1,390 | 6200 |
| KR 30 | 1.181 | 30 | 0.472 | 12 | 0.551 | 14 | 1.575 | 40 | 0.196 | 89 | 1,530 | 6800 | 1,890 | 8400 |
| KR 32 | 1.260 | 32 | 0.472 | 12 | 0.551 | 14 | 1.575 | 40 | 0.221 | 100 | 1,600 | 7100 | 2,020 | 9000 |
| KR 35 | 1.378 | 35 | 0.630 | 16 | 0.709 | 18 | 2.047 | 52 | 0.377 | 171 | 2,180 | 9700 | 3,150 | 14100 |
| KR 40 | 1.575 | 40 | 0.709 | 18 | 0.787 | 20 | 2.284 | 58 | 0.549 | 249 | 2,450 | 10900 | 3,500 | 15500 |
| KR 47 | 1.850 | 47 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.86 | 390 | 3,500 | 15500 | 5,700 | 25500 |
| KR 52 | 2.047 | 52 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 1.025 | 465 | 3,800 | 16800 | 6,400 | 28500 |
| KR 62 | 2.441 | 62 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 1.768 | 802 | 6,000 | 26500 | 10,700 | 47500 |
| KR 72 | 2.835 | 72 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 2.304 | 1045 | 6,300 | 28000 | 11,900 | 53000 |
| KR 80 | 3.150 | 80 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 3.442 | 1561 | 8,900 | 39500 | 17,300 | 77000 |
| KR 85 | 3.347 | 85 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 3.837 | 1740 | 9,100 | 40500 | 18,000 | 80000 |
| KR 90 | 3.543 | 90 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 4.344 | 1970 | 9,300 | 41500 | 18,700 | 83000 |

**CONTINUED FROM ABOVE**

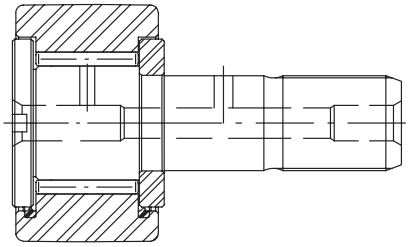
| PART NUMBER | $B_1$ inch | $B_1$ mm | THREADS G | $G_1$ inch | $G_1$ mm | $C_1$ inch | $C_1$ mm | NUT TORQUE ft-lbf | NUT TORQUE Nm | SPEED LIMIT GREASE rpm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KR 16 | 0.630 | 16 | M6 | 0.315 | 8 | 0.024 | 0.6 | 2.21 | 3 | 22000 | 850 | 3800 | 840 | 3750 |
| KR 19 | 0.787 | 20 | M8 | 0.394 | 10 | 0.024 | 0.6 | 5.9 | 8 | 20000 | 960 | 4250 | 1,030 | 4600 |
| KR 22 | 0.906 | 23 | M10x1 | 0.472 | 12 | 0.024 | 0.6 | 11.06 | 15 | 16000 | 1,280 | 5700 | 1,460 | 6500 |
| KR 26 | 0.906 | 23 | M10x1 | 0.472 | 12 | 0.024 | 0.6 | 11.06 | 15 | 16000 | 1,280 | 5700 | 1,460 | 6500 |
| KR 30 | 0.984 | 25 | M12x1.5 | 0.512 | 13 | 0.024 | 0.6 | 16.23 | 22 | 11000 | 1,820 | 8100 | 2,180 | 9700 |
| KR 32 | 0.984 | 25 | M12x1.5 | 0.512 | 13 | 0.024 | 0.6 | 16.23 | 22 | 11000 | 1,820 | 8100 | 2,180 | 9700 |
| KR 35 | 1.280 | 32.5 | M16x1.5 | 0.669 | 17 | 0.032 | 0.8 | 43 | 58 | 7000 | 2,900 | 12900 | 4,250 | 19000 |
| KR 40 | 1.437 | 36.5 | M18x1.5 | 0.748 | 19 | 0.032 | 0.8 | 64 | 87 | 6000 | 3,200 | 14200 | 4,600 | 20400 |
| KR 47 | 1.595 | 40.5 | M20x1.5 | 0.827 | 21 | 0.032 | 0.8 | 89 | 120 | 4900 | 4,400 | 19500 | 7,200 | 32000 |
| KR 52 | 1.595 | 40.5 | M20x1.5 | 0.827 | 21 | 0.032 | 0.8 | 89 | 120 | 4900 | 4,400 | 19500 | 7,200 | 32000 |
| KR 62 | 1.949 | 49.5 | M24x1.5 | 0.984 | 25 | 0.032 | 0.8 | 162 | 220 | 3800 | 6,900 | 30500 | 11,900 | 53000 |
| KR 72 | 1.949 | 49.5 | M24x1.5 | 0.984 | 25 | 0.032 | 0.8 | 162 | 220 | 3800 | 6,900 | 30500 | 11,900 | 53000 |
| KR 80 | 2.480 | 63 | M30x1.5 | 1.260 | 32 | 0.039 | 1 | 332 | 450 | 2600 | 10,100 | 45000 | 19,100 | 85000 |
| KR 85 | 2.480 | 63 | M30x1.6 | 1.260 | 32 | 0.039 | 1 | 332 | 450 | 2600 | 10,100 | 45000 | 19,100 | 85000 |
| KR 90 | 2.480 | 63 | M30x1.5 | 1.260 | 32 | 0.039 | 1 | 332 | 450 | 2600 | 10,100 | 45000 | 19,100 | 85000 |

**PLEASE NOTE THAT KR 16 & KR 19 HAVE LUBRICATION HOLES THROUGH THE HEAD ONLY ON THE SCREWDRIVER SLOT. NO RELUBRICATION IS POSSIBLE ON THE HEX BORE ON THOSE SIZES.**

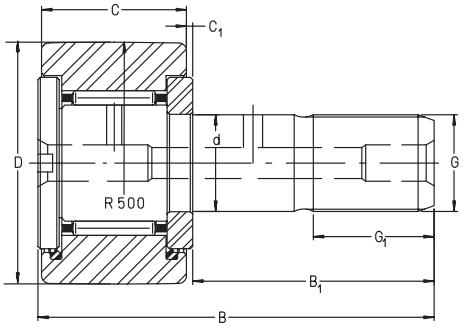
# Stud Type Cam Followers

## KRV SERIES

- Full complement needle rollers
- All versions available with seals – suffix PP
- Metric
- Accepts thrust through flange
- Available with hex socket – suffix SK
- Available with eccentric sleeve – prefix E
- Available with a cylindrical tire OD – suffix X



KRV




KR

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | TIRE OD D inch | TIRE OD D mm | STUD DIA. d inch | STUD DIA. d mm | TIRE WIDTH C inch | TIRE WIDTH C mm | LENGTH B inch | LENGTH B mm | WEIGHT lbs | WEIGHT g | EFFECT. DYN. CAP. Cw lbf | EFFECT. DYN. CAP. Cw N | EFFECT. STAT. CAP. $C_0w$ lbf | EFFECT. STAT. CAP. $C_0w$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KRV 16 | 0.630 | 16 | 0.236 | 6 | 0.433 | 11 | 1.102 | 28 | 0.044 | 20 | 1,090 | 4850 | 1,460 | 6500 |
| KRV 19 | 0.748 | 19 | 0.315 | 8 | 0.433 | 11 | 1.260 | 32 | 0.071 | 32 | 1,240 | 5500 | 1,780 | 7900 |
| KRV 22 | 0.866 | 22 | 0.394 | 10 | 0.472 | 12 | 1.417 | 36 | 0.099 | 45 | 1,420 | 6300 | 2,050 | 9100 |
| KRV 26 | 1.024 | 26 | 0.394 | 10 | 0.472 | 12 | 1.417 | 36 | 0.135 | 61 | 1,640 | 7300 | 2,550 | 11300 |
| KRV 30 | 1.181 | 30 | 0.472 | 12 | 0.551 | 14 | 1.575 | 40 | 0.196 | 89 | 2,140 | 9500 | 3,300 | 14600 |
| KRV 32 | 1.260 | 32 | 0.472 | 12 | 0.551 | 14 | 1.575 | 40 | 0.221 | 100 | 2,250 | 10000 | 3,550 | 15800 |
| KRV 35 | 1.378 | 35 | 0.630 | 16 | 0.709 | 18 | 2.047 | 52 | 0.377 | 171 | 2,900 | 12800 | 5,200 | 23000 |
| KRV 40 | 1.575 | 40 | 0.709 | 18 | 0.787 | 20 | 2.284 | 58 | 0.549 | 249 | 3,350 | 14800 | 6,000 | 26500 |
| KRV 47 | 1.850 | 47 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.86 | 390 | 4,650 | 20600 | 9,400 | 42000 |
| KRV 52 | 2.047 | 52 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 1.025 | 465 | 5,100 | 22500 | 10,800 | 48000 |
| KRV 62 | 2.441 | 62 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 1.768 | 802 | 7,600 | 34000 | 17,100 | 76000 |
| KRV 72 | 2.835 | 72 | 0.945 | 24 | 1.142 | 29 | 3.150 | 80 | 2.304 | 1045 | 8,300 | 37000 | 19,100 | 85000 |
| KRV 80 | 3.150 | 80 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 3.442 | 1561 | 11,100 | 49500 | 27,000 | 120000 |
| KRV 90 | 3.543 | 90 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 4.344 | 1970 | 11,900 | 53000 | 29,000 | 130000 |

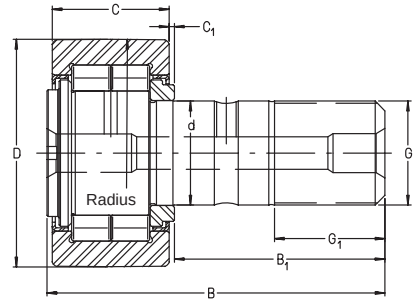
**CONTINUED FROM ABOVE**

| PART NUMBER | $B_1$ inch | $B_1$ mm | THREADS G | $G_1$ inch | $G_1$ mm | $C_1$ inch | $C_1$ mm | SPEED LIMIT GREASE rpm | NUT TORQUE ft-lbf | NUT TORQUE Nm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KRV 16 | 0.630 | 16 | M6 | 0.315 | 8 | 0.024 | 0.6 | 8500 | 2.21 | 3 | 1,440 | 6400 | 1,910 | 8500 |
| KRV 19 | 0.787 | 20 | M8 | 0.394 | 10 | 0.024 | 0.6 | 7000 | 5.9 | 8 | 1,640 | 7300 | 2,430 | 10800 |
| KRV 22 | 0.906 | 23 | M10x1 | 0.472 | 12 | 0.024 | 0.6 | 6000 | 11.06 | 15 | 1,930 | 8600 | 2,900 | 12900 |
| KRV 26 | 0.906 | 23 | M10x1 | 0.472 | 12 | 0.024 | 0.6 | 6000 | 11.06 | 15 | 1,930 | 8600 | 2,900 | 12900 |
| KRV 30 | 0.984 | 25 | M12x1.5 | 0.512 | 13 | 0.024 | 0.6 | 4500 | 16.23 | 22 | 2,750 | 12200 | 4,250 | 19000 |
| KRV 32 | 0.984 | 25 | M12x1.5 | 0.512 | 13 | 0.024 | 0.6 | 4500 | 16.23 | 22 | 2,750 | 12200 | 4,250 | 19000 |
| KRV 35 | 1.280 | 32.5 | M16x1.5 | 0.669 | 17 | 0.032 | 0.8 | 3400 | 43 | 58 | 4,100 | 18300 | 7,900 | 35000 |
| KRV 40 | 1.437 | 36.5 | M18x1.5 | 0.748 | 19 | 0.032 | 0.8 | 2900 | 64 | 87 | 4,700 | 21000 | 8,900 | 39500 |
| KRV 47 | 1.595 | 40.5 | M20x1.5 | 0.827 | 21 | 0.032 | 0.8 | 2600 | 89 | 120 | 6,300 | 28000 | 13,300 | 59000 |
| KRV 52 | 1.595 | 40.5 | M20x1.5 | 0.827 | 21 | 0.032 | 0.8 | 2600 | 89 | 120 | 6,300 | 28000 | 13,300 | 59000 |
| KRV 62 | 1.949 | 49.5 | M24x1.5 | 0.984 | 25 | 0.032 | 0.8 | 2200 | 162 | 220 | 9,300 | 41500 | 20,500 | 91000 |
| KRV 72 | 1.949 | 49.5 | M24x1.5 | 0.984 | 25 | 0.032 | 0.8 | 2200 | 162 | 220 | 9,300 | 41500 | 20,500 | 91000 |
| KRV 80 | 2.480 | 63 | M30x1.5 | 1.260 | 32 | 0.039 | 1 | 1700 | 332 | 450 | 13,500 | 60000 | 32,000 | 142000 |
| KRV 90 | 2.480 | 63 | M30x1.5 | 1.260 | 32 | 0.039 | 1 | 1700 | 332 | 450 | 13,500 | 60000 | 32,000 | 142000 |

**PLEASE NOTE THAT KRV 16 & KRV 19 HAVE LUBRICATION HOLES THROUGH THE HEAD ONLY ON THE SCREWDRIVER SLOT. NO RELUBRICATION IS POSSIBLE ON THE HEX BORE ON THOSE SIZES.**

# Stud Type Cam Followers
## NUKR SERIES

- Available with cylindrical tire OD – suffix X
- 2 row full complement cylindrical rollers
- Metric
- Labyrinth seals included for higher temperatures
- Accepts thrust through rollers
- Available with eccentric sleeve – prefix E




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

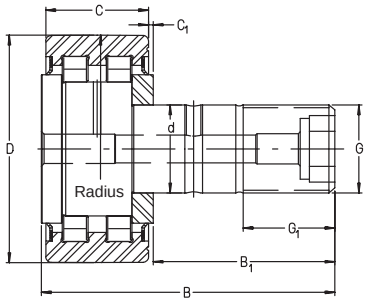
| PART NUMBER | TIRE OD D inch | TIRE OD D mm | STUD DIA. d inch | STUD DIA. d mm | TIRE WIDTH C inch | TIRE WIDTH C mm | TOTAL LENGTH B inch | TOTAL LENGTH B mm | WEIGHT lbs | WEIGHT g | EFFECTIVE DYN. CAP. Cw lbf | EFFECTIVE DYN. CAP. Cw N | EFFECTIVE STAT. CAP. $C_0w$ lbf | EFFECTIVE STAT. CAP. $C_0w$ N | $F_{r\ perm}$ lbf | $F_{r\ perm}$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NUKR 35 | 1.378 | 35 | 0.630 | 16 | 0.709 | 18 | 2.047 | 52 | 0.362 | 164 | 3,600 | 15,000 | 4,100 | 16,800 | 1,870 | 8,600 |
| NUKR 40 | 1.575 | 40 | 0.787 | 18 | 0.787 | 20 | 2.284 | 58 | 0.534 | 242 | 4,150 | 18,400 | 5,100 | 22,600 | 2,950 | 13,100 |
| NUKR 47 | 1.850 | 47 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.838 | 380 | 6,300 | 28,000 | 7,800 | 35,000 | 3,700 | 16,400 |
| NUKR 52 | 2.047 | 52 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.992 | 450 | 6,500 | 29,000 | 8,400 | 37,500 | 3,900 | 17,300 |
| NUKR 62 | 2.441 | 62 | 0.945 | 24 | 1.102 | 28 | 3.150 | 80 | 1.753 | 795 | 9,100 | 40,000 | 11,500 | 50,000 | 5,600 | 23,500 |
| NUKR 72 | 2.835 | 72 | 0.945 | 24 | 1.102 | 28 | 3.150 | 80 | 2.249 | 1020 | 10,100 | 44,500 | 13,700 | 50,000 | 7,500 | 32,000 |
| NUKR 80 | 3.150 | 80 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 3.528 | 1600 | 15,100 | 69,000 | 20,900 | 98,000 | 10,000 | 47,500 |
| NUKR 90 | 3.543 | 90 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 4.322 | 1960 | 17,300 | 79,000 | 24,700 | 117,000 | 16,200 | 77,000 |

**CONTINUED FROM ABOVE**

| PART NUMBER | $F_{or\ perm}$ lbf | $F_{or\ perm}$ N | $B_1$ inch | $B_1$ mm | G | $G_1$ inch | $G_1$ mm | $C_1$ inch | $C_1$ mm | $M_a$ nut torque ft-lbf | $M_a$ nut torque Nm | SPEED LIMIT GREASE rpm | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | GREASE NIPPLE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NUKR 35 | 3,700 | 16,800 | 1.280 | 32.5 | M 16x1.5 | 0.669 | 17 | 0.032 | 0.800 | 43 | 58 | 6500 | 5,200 | 21,200 | 6,100 | 24,600 | NIP A 2x7,5 AP 8 |
| NUKR 40 | 5,100 | 22,600 | 1.437 | 36.5 | M 18x1.5 | 0.748 | 19 | 0.032 | 0.800 | 64 | 87 | 5500 | 5,600 | 24,800 | 7,000 | 31,000 | NIP A 2x7,5 AP 8 |
| NUKR 47 | 7,400 | 35,000 | 1.595 | 40.5 | M 20x1.5 | 0.827 | 21 | 0.032 | 0.800 | 89 | 120 | 4200 | 8,800 | 39,000 | 11,200 | 50,000 | NIP A 2x7,5 AP 8 |
| NUKR 52 | 7,800 | 37,500 | 1.595 | 40.5 | M 20x1.5 | 0.827 | 25 | 0.032 | 0.800 | 89 | 120 | 4200 | 9,800 | 43,000 | 13,500 | 60,000 | NIP A2x7,5 AP 8 |
| NUKR 62 | 11,100 | 50,000 | 1.949 | 49.5 | M 24x1.5 | 0.984 | 25 | 0.032 | 1,300 | 162 | 220 | 2600 | 13,300 | 59,000 | 17,800 | 78,000 | NIP A 3x9,5 AP 8 |
| NUKR 72 | 13,700 | 50,000 | 1.949 | 49.5 | M 24x1.5 | 0.984 | 25 | 0.032 | 1,300 | 162 | 220 | 2600 | 14,600 | 65,000 | 20,900 | 92,000 | NIP A 3x9,5 AP 8 |
| NUKR 80 | 20,000 | 98,000 | 2.480 | 63 | M 30x1.5 | 1.260 | 32 | 0.039 | 1.000 | 332 | 450 | 1800 | 21,400 | 79,000 | 30,000 | 143,000 | NIP A 3x9,5 AP 8 |
| NUKR 90 | 24,700 | 117,000 | 2.480 | 63 | M 30x1.5 | 1.260 | 32 | 0.039 | 1.000 | 332 | 450 | 1800 | 21,400 | 97,000 | 30,000 | 143,000 | NIP A 3x9,5 AP 8 |

# Stud Type Cam Followers
## PWKR SERIES

- 2 row full complement cylindrical rollers
- Metric
- Contact seals included
- Accepts thrust through rollers
- Available with eccentric sleeve – prefix E




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

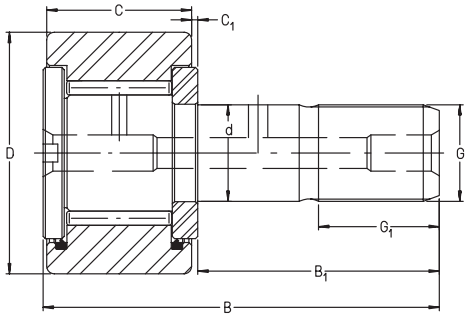
| PART NUMBER | TIRE OD D inch | TIRE OD D mm | STUD DIA. d inch | STUD DIA. d mm | TIRE WIDTH C inch | TIRE WIDTH C mm | TOTAL LENGTH B inch | TOTAL LENGTH B mm | WEIGHT lbs | WEIGHT g | EFFECTIVE DYN. CAP. Cw lbf | EFFECTIVE DYN. CAP. Cw N | EFFECTIVE STAT. CAP. $C_0w$ lbf | EFFECTIVE STAT. CAP. $C_0w$ N | $F_{r\ perm}$ lbf | $F_{r\ perm}$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PWKR 35 2RS | 1.378 | 35 | 0.630 | 16 | 0.709 | 18 | 2.047 | 52 | 0.362 | 164 | 2,750 | 11,600 | 2,700 | 11,300 | 2,110 | 9.400 |
| PWKR 40 2RS | 1.575 | 40 | 0.709 | 18 | 0.787 | 20 | 2.284 | 58 | 0.534 | 242 | 4,150 | 12,900 | 3,300 | 13,400 | 3,200 | 14.200 |
| PWKR 47 2RS | 1.850 | 47 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.838 | 380 | 6,300 | 23,200 | 5,700 | 25,500 | 5,700 | 25.500 |
| PWKR 52 2RS | 2.047 | 52 | 0.787 | 20 | 0.945 | 24 | 2.598 | 66 | 0.992 | 450 | 6,500 | 24,200 | 6,200 | 28,000 | 4,200 | 18.600 |
| PWKR 62 2RS | 2.441 | 62 | 0.945 | 24 | 1.102 | 28 | 3.150 | 80 | 1.753 | 795 | 9,100 | 35,000 | 8,400 | 39,500 | 4,950 | 22.100 |
| PWKR 72 2RS | 2.835 | 72 | 0.945 | 24 | 1.102 | 28 | 3.150 | 80 | 2.249 | 1020 | 10,100 | 38,000 | 10,800 | 46,500 | 10,800 | 48.000 |
| PWKR 80 2RS | 3.150 | 80 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 3.528 | 1600 | 15,100 | 56,000 | 17,800 | 70,000 | 12,800 | 57.000 |
| PWKR 90 2RS | 3.540 | 90 | 1.181 | 30 | 1.378 | 35 | 3.937 | 100 | 4.322 | 1960 | 17,300 | 63,000 | 20,500 | 82,000 | 19,600 | 87.000 |

**CONTINUED FROM ABOVE**

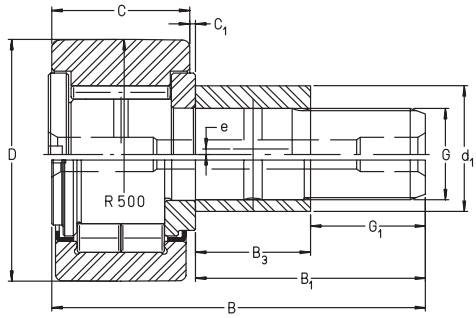
| PART NUMBER | $F_{or\ perm}$ lbf | $F_{or\ perm}$ N | $B_1$ inch | $B_1$ mm | G | $G_1$ inch | $G_1$ mm | $C_1$ inch | $C_1$ mm | $M_a$ nut torque ft-lbf | $M_a$ nut torque Nm | SPEED LIMIT GREASE rpm | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PWKR 35 2RS | 2,700 | 11,300 | 1.280 | 32.500 | M 16x1.5 | 0.669 | 17 | 0.032 | 0.800 | 43 | 58 | 6500 | 5,200 | 23.000 | 6,100 | 27 |
| PWKR 40 2RS | 3,300 | 13,400 | 1.437 | 36.500 | M 18x1.5 | 0.748 | 19 | 0.032 | 0.800 | 64 | 87 | 5500 | 5,600 | 24.800 | 7,000 | 31 |
| PWKR 47 2RS | 5,700 | 25,500 | 1.595 | 40.500 | M 20x1.5 | 0.827 | 21 | 0.032 | 0.800 | 89 | 120 | 4200 | 8,800 | 39.000 | 11,200 | 50 |
| PWKR 52 2RS | 6,200 | 28,000 | 1.595 | 40.500 | M 20x1.5 | 0.827 | 21 | 0.032 | 0.800 | 89 | 120 | 3400 | 9,800 | 43.500 | 13,500 | 60 |
| PWKR 62 2RS | 8,400 | 39,500 | 1.949 | 49.500 | M 24x1.5 | 0.984 | 25 | 0.032 | 0.800 | 162 | 220 | 2600 | 13,300 | 59.000 | 17,800 | 79 |
| PWKR 72 2RS | 10,800 | 46,500 | 1.949 | 49.500 | M 24x1.5 | 0.984 | 25 | 0.032 | 0.800 | 162 | 220 | 2100 | 14,600 | 65.000 | 20,900 | 93 |
| PWKR 80 2RS | 17,800 | 70,000 | 2.480 | 63.000 | M 30x1.5 | 1.260 | 32 | 0.039 | 1.000 | 332 | 450 | 1800 | 21,400 | 95.000 | 30,000 | 133 |
| PWKR 90 2RS | 20,500 | 82,000 | 2.480 | 63.000 | M 30x1.5 | 1.260 | 32 | 0.039 | 1.000 | 332 | 450 | 1800 | 21,400 | 95.000 | 30,000 | 133 |

# Cam Followers
## CF SERIES

- Inch series
- Stud type cam follower
- Cylindrical tire OD
- Available with crowned OD – suffix Y
- Available sealed – suffix PP
- Available with eccentric sleeve – prefix E




CF




CFE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | TIRE OD D inch | TIRE OD D mm | STUD DIA. d inch | STUD DIA. d mm | TIRE WIDTH C inch | TIRE WIDTH C mm | LENGTH B inch | LENGTH B mm | WEIGHT lbs | WEIGHT g | EFFECT. DYN. CAP. Cw lbf | EFFECT. DYN. CAP. Cw N | EFFECT. STAT. CAP. $C_0w$ lbf | EFFECT. STAT. CAP. $C_0w$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CF8–1 | 0.5 | 12.700 | 0.19 | 4.826 | 0.375 | 9.525 | 1.032 | 26.200 | 0.024 | 11 | 640 | 2850 | 830 | 3700 |
| CF10–1 | 0.625 | 15.875 | 0.25 | 6.350 | 0.438 | 11.113 | 1.221 | 31.000 | 0.044 | 20 | 355 | 1580 | 435 | 1930 |
| CF12 | 0.75 | 19.050 | 0.375 | 9.525 | 0.500 | 12.700 | 1.406 | 35.700 | 0.075 | 34 | 1,210 | 5400 | 1,780 | 7900 |
| CF14 | 0.875 | 22.225 | 0.375 | 9.525 | 0.500 | 12.700 | 1.406 | 35.700 | 0.099 | 45 | 1,480 | 6600 | 2,380 | 10600 |
| CF16 | 1 | 25.400 | 0.4375 | 11.112 | 0.625 | 15.875 | 1.654 | 42.000 | 0.159 | 72 | 1,730 | 7700 | 3,100 | 13700 |
| CF18 | 1.125 | 28.575 | 0.4375 | 11.112 | 0.625 | 15.875 | 1.654 | 42.000 | 0.194 | 88 | 1,980 | 8800 | 3,700 | 16500 |
| CF20 | 1.25 | 31.750 | 0.5 | 12.700 | 0.750 | 19.050 | 2.032 | 51.600 | 0.300 | 136 | 3,300 | 14600 | 4,600 | 20500 |
| CF22 | 1.375 | 34.925 | 0.5 | 12.700 | 0.750 | 19.050 | 2.032 | 51.600 | 0.348 | 158 | 3,650 | 16200 | 5,400 | 23800 |
| CF24 | 1.5 | 38.100 | 0.625 | 15.875 | 0.875 | 22.225 | 2.406 | 61.100 | 0.525 | 238 | 4,200 | 18600 | 6,600 | 29500 |
| CF26 | 1.625 | 41.275 | 0.625 | 15.875 | 0.875 | 22.225 | 2.406 | 61.100 | 0.598 | 271 | 4,500 | 20000 | 7,300 | 32500 |
| CF28 | 1.75 | 44.450 | 0.75 | 19.050 | 1.000 | 25.400 | 2.780 | 70.600 | 0.827 | 375 | 5,500 | 24400 | 9,700 | 43000 |
| CF30 | 1.875 | 47.625 | 0.75 | 19.050 | 1.000 | 25.400 | 2.780 | 70.600 | 0.924 | 419 | 5,700 | 25500 | 10,600 | 47000 |
| CF32 | 2 | 50.800 | 0.875 | 22.225 | 1.250 | 31.750 | 3.280 | 83.300 | 1.352 | 613 | 7,400 | 33000 | 11,200 | 50000 |
| CF36 | 2.25 | 57.150 | 0.875 | 22.225 | 1.250 | 31.750 | 3.280 | 83.300 | 1.636 | 742 | 8,300 | 37000 | 13,500 | 60000 |
| CF40 | 2.5 | 63.500 | 1 | 25.400 | 1.500 | 38.100 | 3.780 | 96.000 | 2.421 | 1098 | 11,500 | 51000 | 21,100 | 94000 |
| CF44 | 2.75 | 69.850 | 1 | 25.400 | 1.500 | 38.100 | 3.780 | 96.000 | 2.867 | 1300 | 12,100 | 54000 | 23,200 | 103000 |
| CF48 | 3 | 76.200 | 1.25 | 31.750 | 1.750 | 44.450 | 4.280 | 108.700 | 4.123 | 1870 | 13,500 | 60000 | 28,000 | 125000 |
| CF52 | 3.25 | 82.550 | 1.75 | 44.450 | 1.750 | 44.450 | 4.280 | 108.700 | 5.733 | 2600 | 14,600 | 65000 | 31,500 | 140000 |
| CF64 | 4 | 101.600 | 1.5 | 38.100 | 2.250 | 57.150 | 5.780 | 146.800 | 9.316 | 4225 | 21,400 | 95000 | 55,000 | 244000 |

**CONTINUED FROM ABOVE**

| PART NUMBER | $B_1$ inch | $B_1$ mm | THREADS G | $G_1$ inch | $G_1$ mm | $C_1$ inch | $C_1$ mm | NUT TORQUE ft-lbf | NUT TORQUE Nm | SPEED LIMIT rpm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CF8–1 | 0.625 | 15.875 | 10–32 UNF | 0.25 | 6.350 | 0.031 | 0.79 | 0.67 | 0.9 | 10000 | 830 | 3700 | 1,080 | 4800 |
| CF10–1 | 0.75 | 19.050 | 1/4–28 UNF | 0.3125 | 7.938 | 0.031 | 0.79 | 1.58 | 2.1 | 9000 | 940 | 4200 | 1,350 | 6000 |
| CF12 | 0.875 | 22.225 | 3/8–24 UNF | 0.375 | 9.525 | 0.031 | 0.79 | 5.42 | 7.3 | 6000 | 1,910 | 8500 | 3,100 | 13700 |
| CF14 | 0.875 | 22.225 | 3/8–24 UNF | 0.375 | 9.525 | 0.031 | 0.79 | 5.42 | 7.3 | 6000 | 1,910 | 8500 | 3,100 | 13700 |
| CF16 | 1 | 25.400 | 7/16–20 UNF | 0.5 | 12.700 | 0.031 | 0.79 | 8.75 | 11.9 | 5000 | 2,500 | 11200 | 4,750 | 21200 |
| CF18 | 1 | 25.400 | 7/16–20 UNF | 0.5 | 12.700 | 0.031 | 0.79 | 8.75 | 11.9 | 5000 | 2,500 | 11200 | 4,750 | 21200 |
| CF20 | 1.25 | 31.750 | 1/2–20 UNF | 0.625 | 15.875 | 0.031 | 0.79 | 13.75 | 18.6 | 4400 | 4,500 | 20100 | 6,500 | 29000 |
| CF22 | 1.25 | 31.750 | 1/2–20 UNF | 0.625 | 15.875 | 0.031 | 0.79 | 13.75 | 18.6 | 4400 | 4,500 | 20100 | 6,500 | 29000 |
| CF24 | 1.5 | 38.100 | 5/8–18 UNF | 0.75 | 19.050 | 0.031 | 0.79 | 27.92 | 37.8 | 3400 | 5,400 | 24200 | 8,700 | 38500 |
| CF26 | 1.5 | 38.100 | 5/8–18 UNF | 0.75 | 19.050 | 0.031 | 0.79 | 27.92 | 37.8 | 3400 | 5,400 | 24200 | 8,700 | 38500 |
| CF28 | 1.75 | 44.450 | 3/4–16 UNF | 0.875 | 22.225 | 0.031 | 0.79 | 50.00 | 67.8 | 2700 | 7,000 | 31000 | 12,400 | 55000 |
| CF30 | 1.75 | 44.450 | 3/4–16 UNF | 0.875 | 22.225 | 0.031 | 0.79 | 50.00 | 67.8 | 2700 | 7,000 | 31000 | 12,400 | 55000 |
| CF32 | 2 | 50.800 | 7/8–14 UNF | 1 | 25.400 | 0.031 | 0.79 | 79.17 | 107 | 2300 | 10,300 | 46000 | 16,600 | 74000 |
| CF36 | 2 | 50.800 | 7/8–14 UNF | 1 | 25.400 | 0.031 | 0.79 | 79.17 | 107 | 2300 | 10,300 | 46000 | 16,600 | 74000 |
| CF40 | 2.25 | 57.150 | 1–14 UNF | 1.125 | 28.575 | 0.031 | 0.79 | 120.83 | 164 | 2000 | 13,900 | 62000 | 25,000 | 112000 |
| CF44 | 2.25 | 57.150 | 1–14 UNF | 1.125 | 28.575 | 0.031 | 0.79 | 120.83 | 164 | 2000 | 13,900 | 62000 | 25,000 | 112000 |
| CF48 | 2.5 | 63.500 | 1–1/4–12 UNF | 1.25 | 31.750 | 0.031 | 0.79 | 187.50 | 254 | 1600 | 18,200 | 81000 | 40,000 | 177000 |
| CF52 | 2.5 | 63.500 | 1–1/4–12 UNF | 1.25 | 31.750 | 0.031 | 0.79 | 187.50 | 254 | 1600 | 18,200 | 81000 | 39,500 | 176000 |
| CF64 | 3.5 | 88.900 | 1–1/2–12UNF | 1.5 | 38.100 | 0.031 | 0.79 | 254.17 | 345 | 1300 | 27,500 | 122000 | 73,000 | 325000 |

# NOTES

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## PRODUCT DESCRIPTION

### INA Ball Thrust Bearings

- Available in a wide collection of ISO, DIN and popular inch and metric series.
- Available as banded, 3 piece grooved race, 3 piece flat race and self aligning series.
- Races are made from through hardening and case hardening steels, selective sizes available from stainless steel.
- Cage materials include phenolic, steel, plastic, aluminum and bronze.

### INA Roller Thrust Bearings

- Available in a wide collection of ISO, DIN and popular inch and metric series.
- Available as complete bearings or cage and roller assemblies and washer components.
- Races are made from through hardening and case hardening steels.
- Cage materials include phenolic, steel, plastic, aluminum and bronze.

### INA Double Direction Thrust Bearings

- Available in a wide collection of ISO, DIN and popular metric series.
- Available as complete bearings in ball series or component groups of cage and roller assemblies and ZS washers.
- Races are made from through hardening and case hardening steels.

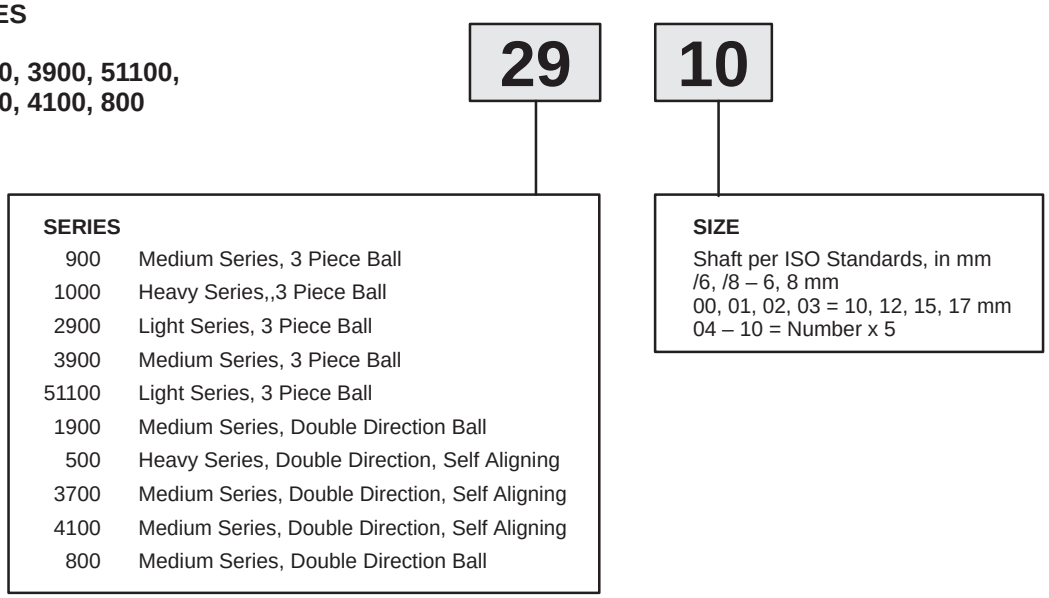
### INA Self Aligning Thrust Bearings

- Available in a wide collection of ISO, DIN and popular inch and metric series.
- Available as complete bearings with the self aligning seats sold separately.
- Races are made from through hardening and case hardening steels.

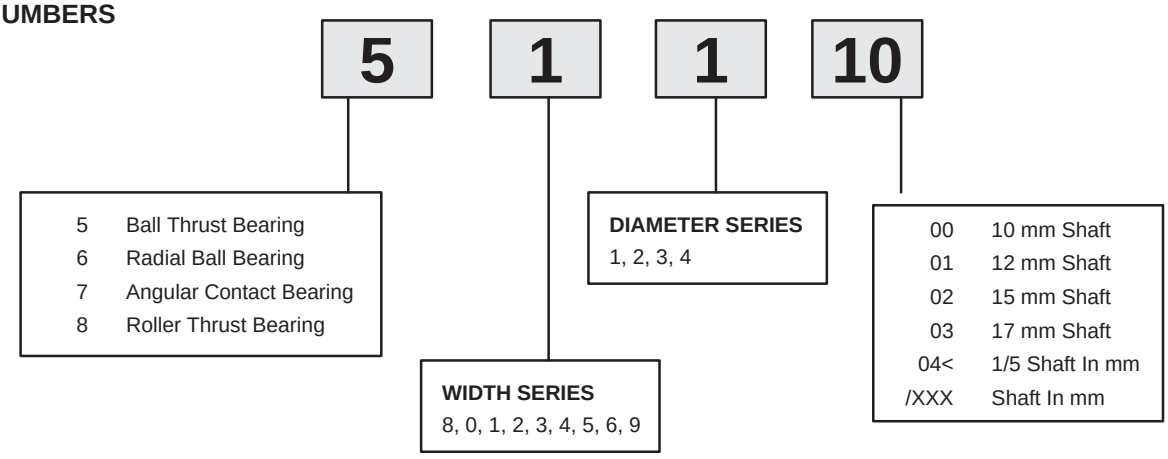
# Part Number Identification
## THRUST BEARINGS

### THRUST BEARINGS
### METRIC SERIES

**900, 1000, 2900, 3900, 51100, 1900, 500, 3700, 4100, 800**



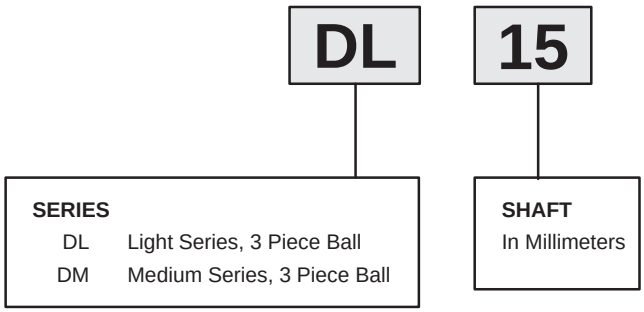

### METRIC ISO SERIES
### 5 DIGIT NUMBERS



# Part Number Identification
## THRUST BEARINGS

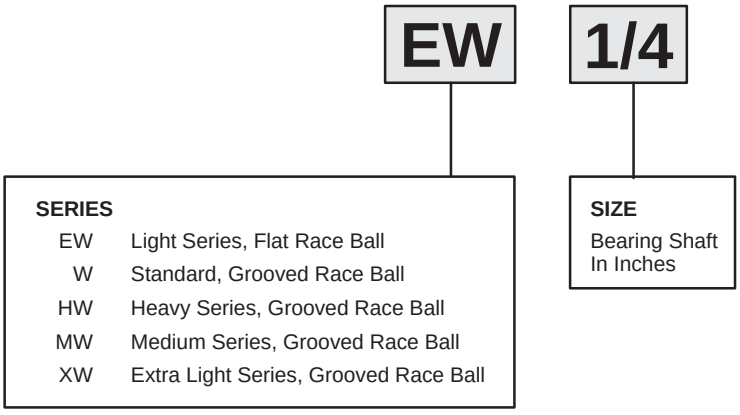
### ANDREWS BALL THRUST BEARINGS METRIC SERIES

**DL, DM**




### ANDREWS BALL THRUST BEARINGS INCH SERIES

**EW, W, HW, MW, XW**

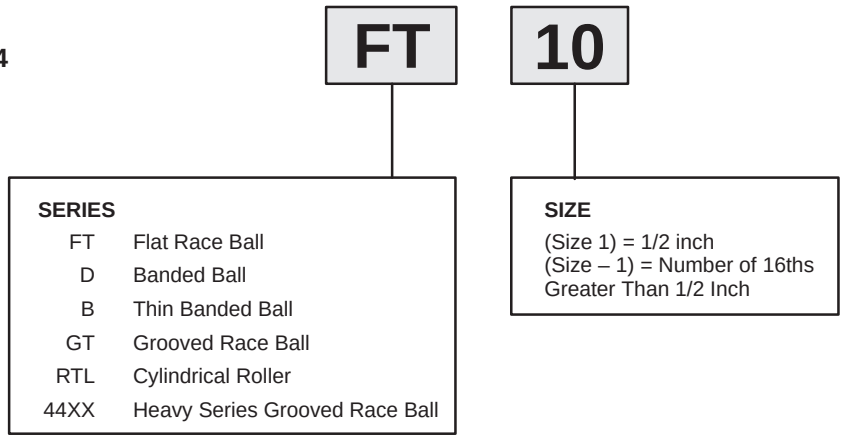



Andrews is a registered trademark of INA USA Corporation

# Part Number Identification
## THRUST BEARINGS

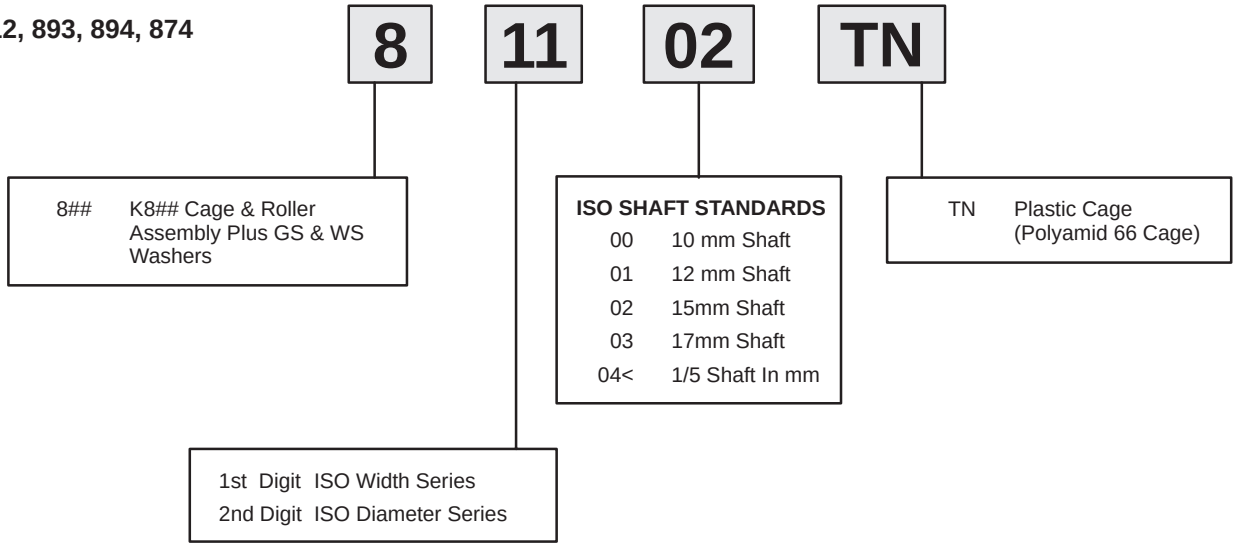
### ANDREWS THRUST BEARINGS
### INCH SERIES

**FT, D, B, GT, RTL, 44**




### AXIAL CYLINDRICAL BEARING
### METRIC SERIES

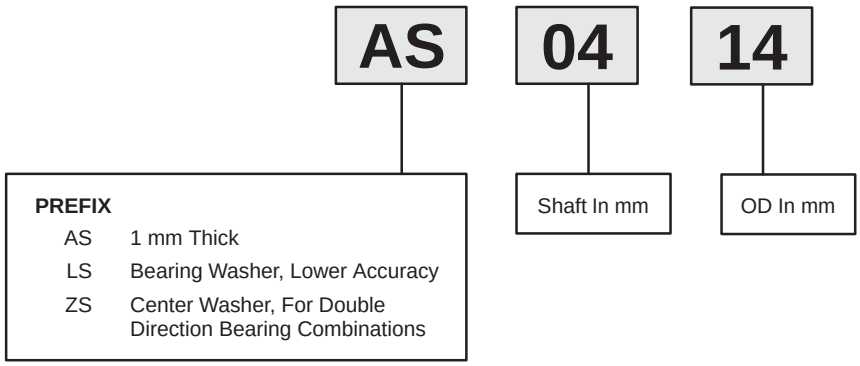
**811, 812, 893, 894, 874**



# Part Number Identification
## THRUST BEARINGS

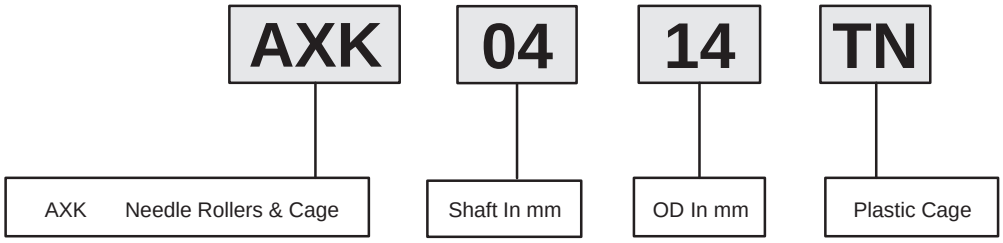
### BEARING WASHERS
### METRIC SERIES

**AS, LS, ZS**



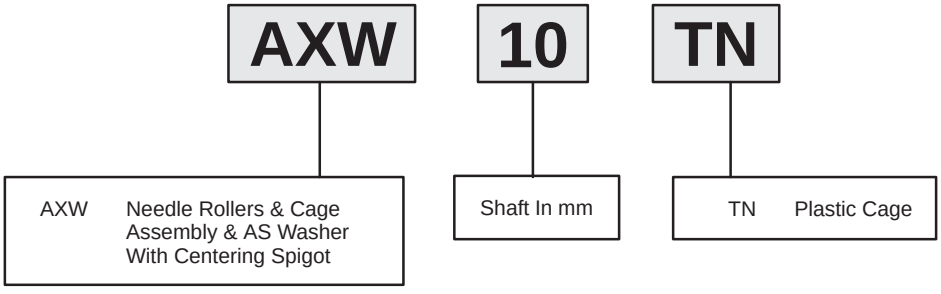

### AXIAL NEEDLE CAGE AND ROLLER ASSEMBLIES
### METRIC SERIES

**AXK**




### PILOTED AXIAL NEEDLE / CYLINDRICAL BEARINGS
### METRIC SERIES

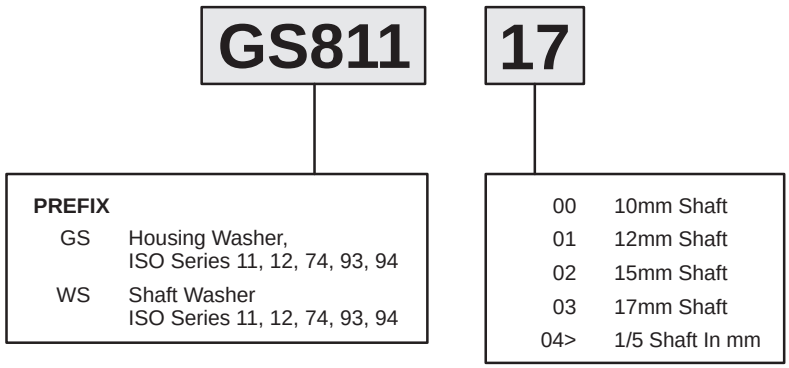
**AXW**



# Part Number Identification
## THRUST BEARINGS

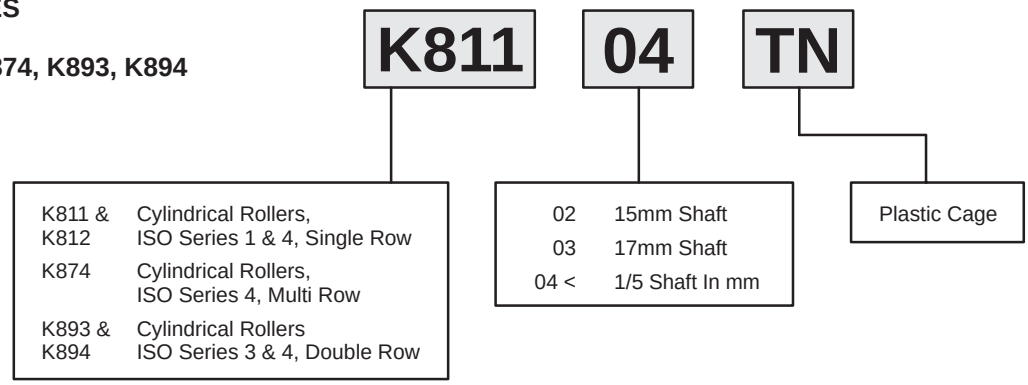
### BEARING WASHERS METRIC SERIES

**GS, WS**



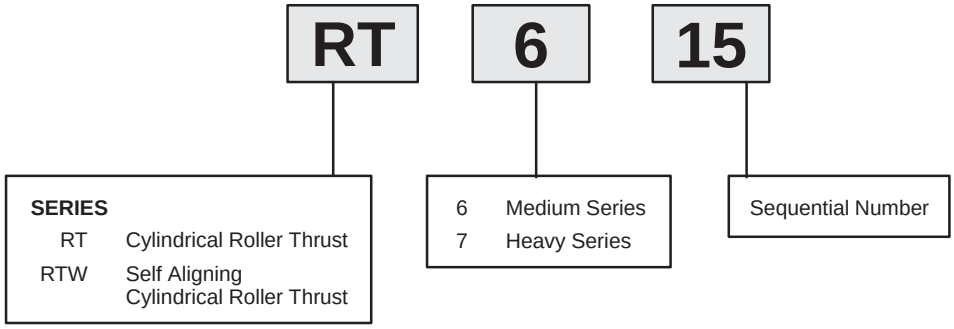

### AXIAL NEEDLE / CYLINDRICAL CAGE AND ROLLER ASSEMBLIES METRIC SERIES

**K811, K812, K874, K893, K894**




### ROLLER THRUST INCH SERIES

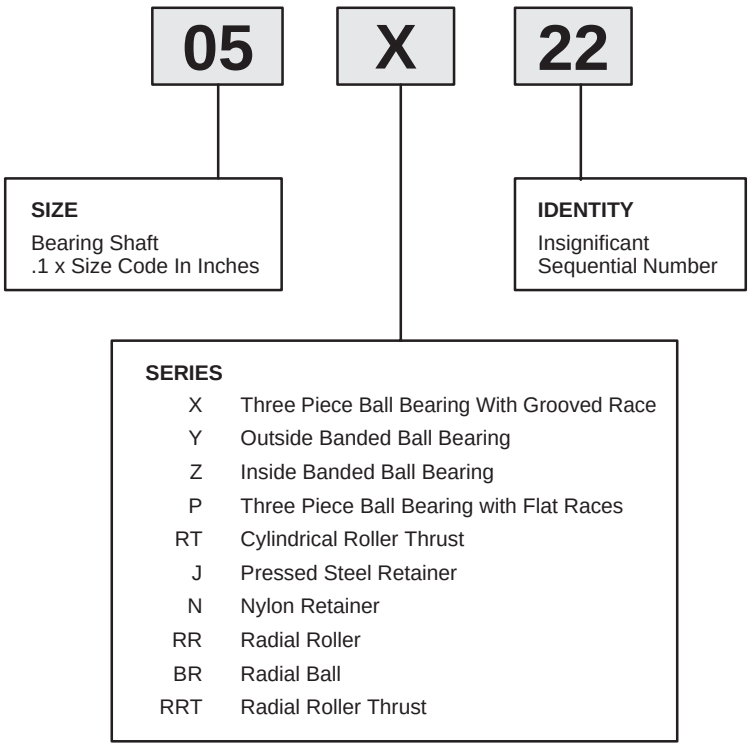
**RT, RTW**



# Part Number Identification
## THRUST BEARINGS

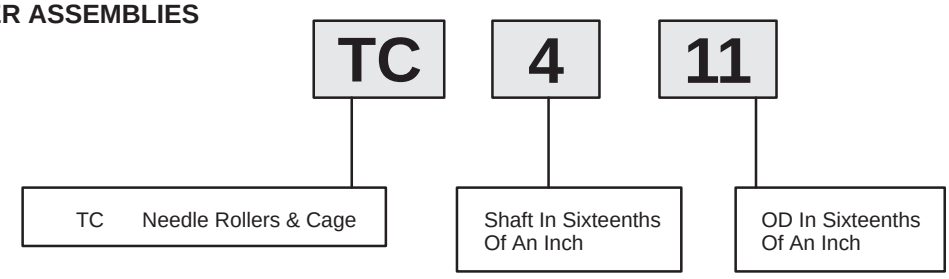
### SPECIAL DIMENSION ANDREWS THRUST BEARINGS INCH SERIES

**X, Y, Z, P, RT, J, N, RR, BR, RRT**




### AXIAL NEEDLE / CYLINDRICAL CAGE AND ROLLER ASSEMBLIES INCH SERIES

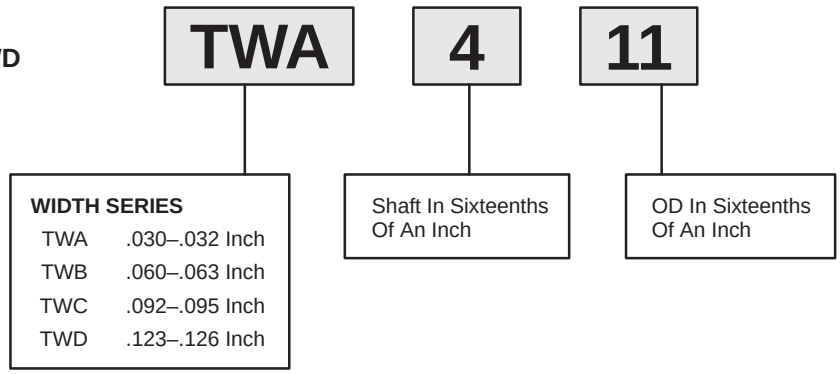
**TC**



# Part Number Identification
## THRUST BEARINGS

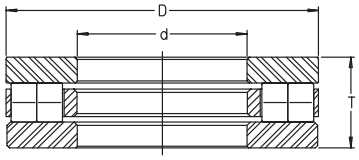
**BEARING WASHERS**
**INCH SERIES**

**TWA, TWB, TWC, TWD**

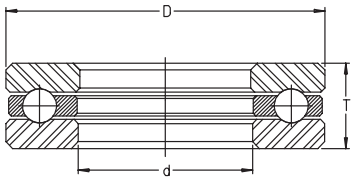


# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.



RT7 SHOWN FOR DIMENSIONAL REFERENCE



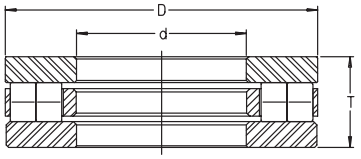
GT SHOWN FOR DIMENSIONAL REFERENCE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

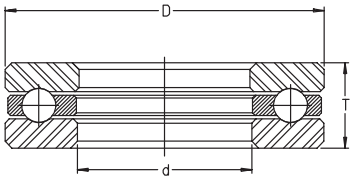
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 00Z22 | 0.000 | 0 | 2.250 | 57.15 | 1.000 | 25.4 |
| 01X03 | 0.161 | 4.089 | 0.462 | 11.735 | 0.283 | 7.188 |
| 01Y04 | 0.187 | 4.75 | 0.500 | 12.7 | 0.225 | 5.715 |
| FT01 | 0.188 | 4.763 | 0.437 | 11.110 | 0.193 | 4.910 |
| FT02 | 0.188 | 4.763 | 0.438 | 11.112 | 0.188 | 4.762 |
| FT03 | 0.188 | 4.763 | 0.531 | 13.493 | 0.188 | 4.762 |
| FT04 | 0.188 | 4.763 | 0.938 | 23.825 | 0.375 | 9.525 |
| 02X10 | 0.197 | 5.004 | 0.735 | 18.669 | 0.594 | 15.088 |
| 02X09 | 0.199 | 5.055 | 0.613 | 15.57 | 0.443 | 11.252 |
| 02Y10 | 0.250 | 6.35 | 0.495 | 12.57 | 0.255 | 6.48 |
| FT05 | 0.250 | 6.350 | 0.563 | 14.287 | 0.219 | 5.556 |
| 02P25 | 0.250 | 6.35 | 0.563 | 14.3 | 0.224 | 5.69 |
| 2004 | 0.250 | 6.350 | 0.625 | 15.875 | 0.438 | 11.113 |
| 02X12 | 0.250 | 6.35 | 0.656 | 16.66 | 0.230 | 5.85 |
| EW-1/4 | 0.250 | 6.350 | 0.656 | 16.662 | 0.250 | 6.350 |
| 02P12 | 0.250 | 6.35 | 0.666 | 16.916 | 0.260 | 6.604 |
| FT06 | 0.250 | 6.350 | 0.813 | 20.650 | 0.375 | 9.530 |
| W-1/4 | 0.250 | 6.350 | 0.813 | 20.650 | 0.375 | 9.530 |
| FT07 | 0.250 | 6.350 | 0.844 | 21.438 | 0.375 | 9.525 |
| 02PS16 | 0.252 | 6.4 | 0.563 | 14.288 | 0.223 | 5.67 |
| 03Y01 | 0.312 | 7.925 | 0.515 | 13.081 | 0.255 | 6.477 |
| FC67686 | 0.313 | 7.938 | 0.625 | 15.875 | 0.204 | 5.18 |
| FT08 | 0.313 | 7.938 | 0.625 | 15.875 | 0.250 | 6.350 |
| 2044 | 0.313 | 7.938 | 0.675 | 17.145 | 0.281 | 7.144 |
| EW-5/16 | 0.313 | 7.938 | 0.750 | 19.050 | 0.250 | 6.350 |
| FT09 | 0.313 | 7.938 | 0.844 | 21.431 | 0.375 | 9.525 |
| W-5/16 | 0.313 | 7.938 | 1.000 | 25.400 | 0.531 | 13.490 |
| 03Y04 | 0.313 | 7.95 | 0.615 | 15.62 | 0.318 | 8.08 |
| 03Y49 | 0.314 | 7.976 | 0.515 | 13.081 | 0.109 | 2.769 |
| 03Y51 | 0.316 | 8.026 | 0.682 | 17.323 | 0.315 | 8.001 |
| 03Y03 | 0.316 | 8.03 | 0.688 | 17.48 | 0.313 | 7.95 |
| 03X16 | 0.329 | 8.357 | 1.192 | 30.277 | 0.801 | 20.345 |
| 00Z27A | 0.358 | 9.09 | 1.680 | 42.67 | 0.635 | 16.13 |
| 03Y50 | 0.375 | 9.525 | 0.600 | 15.24 | 0.068 | 1.724 |
| FT010 | 0.375 | 9.525 | 0.688 | 17.480 | 0.281 | 7.144 |
| 03Y12 | 0.375 | 9.525 | 0.750 | 19.05 | 0.313 | 7.938 |
| EW-3/8 | 0.375 | 9.525 | 0.813 | 20.650 | 0.250 | 6.350 |
| W-3/8 | 0.375 | 9.525 | 1.000 | 25.400 | 0.530 | 13.460 |
| FT011 | 0.375 | 9.525 | 1.031 | 26.190 | 0.500 | 12.700 |
| FT012 | 0.375 | 9.525 | 1.094 | 27.790 | 0.500 | 12.700 |
| HW-3/8 | 0.375 | 9.525 | 1.125 | 28.575 | 0.625 | 15.875 |
| 03Y47 | 0.375 | 9.525 | 1.202 | 30.53 | 0.500 | 12.7 |
| 03Y21 | 0.376 | 9.55 | 0.753 | 19.13 | 0.314 | 7.97 |
| 03Y13 | 0.376 | 9.563 | 0.600 | 15.24 | 0.187 | 4.75 |
| 03Y40 | 0.378 | 9.601 | 0.943 | 23.952 | 0.313 | 7.938 |
| 03Y07 | 0.380 | 9.652 | 0.640 | 16.256 | 0.380 | 9.652 |
| 03Y10 | 0.380 | 9.652 | 0.671 | 17.043 | 0.380 | 9.652 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



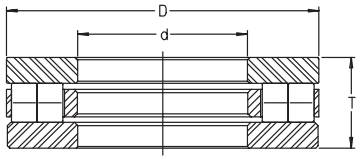

GT SHOWN FOR DIMENSIONAL REFERENCE

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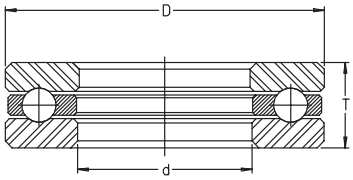
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 51100 | 0.394 | 10.000 | 0.945 | 24.000 | 0.354 | 9.000 |
| 900 | 0.394 | 10.000 | 0.984 | 25.000 | 0.472 | 12.000 |
| 4100 | 0.394 | 10.000 | 0.984 | 25.000 | 0.556 | 14.122 |
| 51200 | 0.394 | 10.000 | 1.024 | 26.000 | 0.433 | 11.000 |
| 2900 | 0.394 | 10.000 | 1.024 | 26.000 | 0.472 | 12.000 |
| 04Y09 | 0.406 | 10.31 | 1.057 | 26.85 | 0.370 | 9.39 |
| 2003 | 0.438 | 11.113 | 0.750 | 19.050 | 0.250 | 6.350 |
| FT013 | 0.438 | 11.113 | 0.813 | 20.650 | 0.313 | 7.950 |
| 2085 | 0.438 | 11.113 | 0.875 | 22.225 | 0.250 | 6.350 |
| 04Y07 | 0.438 | 11.113 | 0.890 | 22.606 | 0.438 | 11.113 |
| 2063 | 0.438 | 11.113 | 0.937 | 23.800 | 0.500 | 12.700 |
| FT014 | 0.438 | 11.113 | 1.094 | 27.788 | 0.500 | 12.700 |
| W-7/16 | 0.438 | 11.113 | 1.281 | 32.540 | 0.625 | 15.875 |
| 04Y01 | 0.441 | 11.201 | 0.813 | 20.638 | 0.251 | 6.375 |
| DL12 | 0.472 | 12.000 | 0.906 | 23.000 | 0.354 | 9.000 |
| 51101 | 0.472 | 12.000 | 1.024 | 26.000 | 0.354 | 9.000 |
| 51201 | 0.472 | 12.000 | 1.102 | 28.000 | 0.433 | 11.000 |
| 2901 | 0.472 | 12.000 | 1.102 | 28.000 | 0.472 | 12.000 |
| 05Y04 | 0.499 | 12.675 | 0.890 | 22.606 | 0.442 | 11.227 |
| 05Y03 | 0.499 | 12.687 | 0.765 | 19.431 | 0.442 | 11.227 |
| 2002 | 0.500 | 12.700 | 0.750 | 19.050 | 0.438 | 11.113 |
| FT015 | 0.500 | 12.700 | 0.875 | 22.225 | 0.250 | 6.350 |
| FT016 | 0.500 | 12.700 | 0.875 | 22.225 | 0.375 | 9.525 |
| 2097 | 0.500 | 12.700 | 0.875 | 22.225 | 0.563 | 14.288 |
| EW-1/2 | 0.500 | 12.700 | 0.969 | 24.610 | 0.250 | 6.350 |
| 05Y05 | 0.500 | 12.7 | 0.990 | 25.146 | 0.505 | 12.827 |
| 05X04 | 0.500 | 12.7 | 0.995 | 25.273 | 0.380 | 9.652 |
| 2458 | 0.500 | 12.700 | 1.062 | 26.975 | 0.312 | 7.925 |
| 05Y06 | 0.500 | 12.7 | 1.122 | 28.5 | 0.500 | 12.7 |
| 05X44 | 0.500 | 12.7 | 1.187 | 30.15 | 0.442 | 11.227 |
| B1 | 0.500 | 12.700 | 1.219 | 30.956 | 0.625 | 15.880 |
| D1 | 0.500 | 12.700 | 1.219 | 30.963 | 0.563 | 14.300 |
| FT1 | 0.500 | 12.700 | 1.219 | 30.963 | 0.563 | 14.300 |
| GT1 | 0.500 | 12.700 | 1.219 | 30.963 | 0.563 | 14.300 |
| W-1/2 | 0.500 | 12.700 | 1.281 | 32.540 | 0.625 | 15.875 |
| HW-1/2 | 0.500 | 12.700 | 1.313 | 33.350 | 0.719 | 18.263 |
| 4401 | 0.500 | 12.700 | 1.438 | 36.513 | 0.625 | 15.875 |
| 05Y60 | 0.503 | 12.776 | 1.234 | 31.344 | 0.564 | 14.326 |
| 05X101 | 0.504 | 12.8 | 0.969 | 24.61 | 0.230 | 5.84 |
| 05Y11 | 0.531 | 13.48 | 0.890 | 22.606 | 0.443 | 11.24 |
| 05Y74 | 0.533 | 13.538 | 0.800 | 20.32 | 0.187 | 4.75 |
| 05Y18 | 0.533 | 13.538 | 0.810 | 20.574 | 0.187 | 4.75 |
| F-200284 | 0.555 | 14.1 | 1.451 | 36.85 | 0.435 | 11.05 |
| 05X60 | 0.560 | 14.224 | 1.224 | 31.09 | 0.385 | 9.779 |
| B2 | 0.563 | 14.288 | 1.219 | 30.960 | 0.625 | 15.880 |
| D2 | 0.563 | 14.288 | 1.219 | 30.963 | 0.563 | 14.300 |
| FT2 | 0.563 | 14.288 | 1.219 | 30.963 | 0.563 | 14.300 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



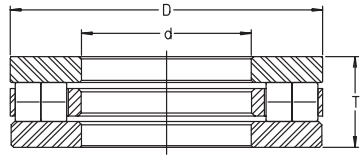

GT SHOWN FOR DIMENSIONAL REFERENCE

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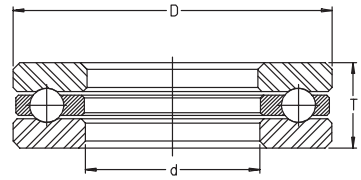
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| GT2 | 0.563 | 14.288 | 1.219 | 30.963 | 0.563 | 14.300 |
| W-9/16 | 0.563 | 14.288 | 1.406 | 35.710 | 0.625 | 15.875 |
| 4402 | 0.563 | 14.288 | 1.438 | 36.530 | 0.625 | 15.875 |
| 05Y12 | 0.564 | 14.326 | 1.015 | 25.781 | 0.569 | 14.453 |
| 05XS12 | 0.564 | 14.326 | 1.276 | 32.41 | 0.505 | 12.827 |
| 05X67 | 0.590 | 14.991 | 1.378 | 35.001 | 0.556 | 14.127 |
| DL15 | 0.591 | 15.000 | 1.024 | 26.000 | 0.354 | 9.000 |
| 51102 | 0.591 | 15.000 | 1.102 | 28.000 | 0.354 | 9.000 |
| 811 02 TN | 0.591 | 15.000 | 1.102 | 28.000 | 0.354 | 9.000 |
| FC69992 | 0.591 | 15 | 1.102 | 28 | 0.354 | 9 |
| 2902 | 0.591 | 15.000 | 1.221 | 31.000 | 0.472 | 12.000 |
| 51202 | 0.591 | 15.000 | 1.260 | 32.000 | 0.472 | 12.000 |
| 902 | 0.591 | 15.000 | 1.378 | 35.000 | 0.551 | 14.000 |
| 4102 | 0.591 | 15.000 | 1.378 | 35.000 | 0.591 | 15.000 |
| 502 | 0.591 | 15.000 | 1.378 | 35.000 | 0.787 | 20.000 |
| 06X77 | 0.595 | 15.113 | 1.028 | 26.111 | 0.359 | 9.119 |
| 06Y42 | 0.625 | 15.875 | 0.995 | 25.273 | 0.442 | 11.227 |
| 2006 | 0.625 | 15.875 | 1.000 | 25.400 | 0.500 | 12.700 |
| EW-5/8 | 0.625 | 15.875 | 1.094 | 27.788 | 0.281 | 7.140 |
| 2132 | 0.625 | 15.875 | 1.125 | 28.575 | 0.563 | 14.288 |
| 2043 | 0.625 | 15.875 | 1.250 | 31.750 | 0.563 | 14.288 |
| D3 | 0.625 | 15.875 | 1.344 | 34.138 | 0.563 | 14.300 |
| FT3 | 0.625 | 15.875 | 1.344 | 34.138 | 0.563 | 14.300 |
| GT3 | 0.625 | 15.875 | 1.344 | 34.138 | 0.563 | 14.300 |
| B3 | 0.625 | 15.875 | 1.344 | 34.138 | 0.625 | 15.875 |
| W-5/8 | 0.625 | 15.875 | 1.406 | 35.710 | 0.625 | 15.875 |
| 4403 | 0.625 | 15.875 | 1.563 | 39.700 | 0.625 | 15.875 |
| 06Y12 | 0.627 | 15.926 | 0.917 | 23.29 | 0.187 | 4.75 |
| 06Y60 | 0.627 | 15.926 | 0.917 | 23.292 | 0.187 | 4.75 |
| 06X63 | 0.627 | 15.926 | 0.992 | 25.197 | 0.500 | 12.7 |
| 06XS07 | 0.627 | 15.926 | 1.276 | 32.41 | 0.505 | 12.83 |
| 06Y33 | 0.627 | 15.926 | 1.421 | 36.093 | 0.458 | 11.633 |
| 06Y49 | 0.628 | 15.951 | 1.354 | 34.391 | 0.583 | 14.81 |
| 06Y36 | 0.629 | 15.975 | 1.000 | 25.4 | 0.375 | 9.525 |
| 06X65 | 0.629 | 15.975 | 1.406 | 35.712 | 0.630 | 16.01 |
| 06P06 | 0.629 | 15.977 | 1.094 | 27.781 | 0.286 | 7.264 |
| 06X30 | 0.630 | 16.002 | 1.625 | 41.275 | 0.925 | 23.5 |
| 06Y05 | 0.656 | 16.65 | 1.140 | 28.956 | 0.500 | 12.7 |
| 06X62 | 0.659 | 16.738 | 1.378 | 35 | 0.636 | 16.154 |
| DL17 | 0.669 | 17.000 | 1.102 | 28.000 | 0.374 | 9.500 |
| 51103 | 0.669 | 17.000 | 1.181 | 30.000 | 0.354 | 9.000 |
| 811 03 TN | 0.669 | 17.000 | 1.181 | 30.000 | 0.354 | 9.000 |
| 51203 | 0.669 | 17.000 | 1.378 | 35.000 | 0.472 | 12.000 |
| FC66992.1 | 0.669 | 17 | 1.457 | 37 | 0.276 | 7 |
| FC66992.5 | 0.669 | 17 | 1.457 | 37 | 0.548 | 13.92 |
| 503 | 0.669 | 17.000 | 1.457 | 37.000 | 0.787 | 20.000 |
| FC68404 | 0.673 | 17.1 | 1.461 | 37.1 | 0.548 | 13.92 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



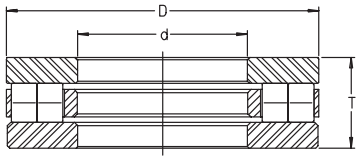

GT SHOWN FOR DIMENSIONAL REFERENCE

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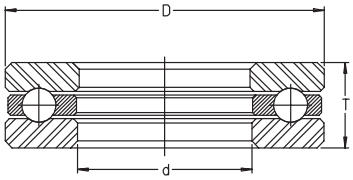
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| FC68404.1 | 0.673 | 17.1 | 1.461 | 37.1 | 0.548 | 13.92 |
| FC69726 | 0.673 | 17.1 | 1.461 | 37.1 | 0.548 | 13.92 |
| D4 | 0.688 | 17.463 | 1.344 | 34.138 | 0.563 | 14.300 |
| FT4 | 0.688 | 17.463 | 1.344 | 34.138 | 0.563 | 14.300 |
| GT4 | 0.688 | 17.463 | 1.344 | 34.138 | 0.563 | 14.300 |
| B4 | 0.688 | 17.463 | 1.344 | 34.140 | 0.625 | 15.880 |
| 4404 | 0.688 | 17.463 | 1.563 | 39.700 | 0.625 | 15.875 |
| 2903 | 0.709 | 18.000 | 1.378 | 35.000 | 0.472 | 12.000 |
| 07Y08 | 0.735 | 18.669 | 1.406 | 35.712 | 0.458 | 11.633 |
| 2009 | 0.750 | 19.050 | 1.250 | 31.750 | 0.438 | 11.113 |
| 2005 | 0.750 | 19.050 | 1.250 | 31.750 | 0.563 | 14.288 |
| EW-3/4 | 0.750 | 19.050 | 1.313 | 33.350 | 0.281 | 7.140 |
| D5 | 0.750 | 19.050 | 1.469 | 37.313 | 0.563 | 14.300 |
| FT5 | 0.750 | 19.050 | 1.469 | 37.313 | 0.563 | 14.300 |
| GT5 | 0.750 | 19.050 | 1.469 | 37.313 | 0.563 | 14.300 |
| B5 | 0.750 | 19.050 | 1.469 | 37.313 | 0.625 | 15.880 |
| W-3/4 | 0.750 | 19.050 | 1.531 | 38.890 | 0.625 | 15.875 |
| 4405 | 0.750 | 19.050 | 1.688 | 42.880 | 0.630 | 16.000 |
| HW-3/4 | 0.750 | 19.050 | 1.813 | 46.050 | 0.875 | 22.225 |
| 07Y03 | 0.753 | 19.126 | 1.125 | 28.575 | 0.625 | 15.875 |
| 07Y51 | 0.753 | 19.126 | 1.469 | 37.306 | 0.568 | 14.427 |
| 07X78 | 0.753 | 19.127 | 1.250 | 31.75 | 0.442 | 11.23 |
| 07P21 | 0.754 | 19.152 | 1.313 | 33.338 | 0.286 | 7.264 |
| 07X51 | 0.781 | 19.837 | 1.783 | 45.293 | 1.041 | 26.441 |
| 51104 | 0.787 | 20.000 | 1.378 | 35.000 | 0.394 | 10.000 |
| 811 04 TN | 0.787 | 20.000 | 1.378 | 35.000 | 0.394 | 10.000 |
| 2904 | 0.787 | 20.000 | 1.457 | 37.000 | 0.472 | 12.000 |
| DL20 | 0.787 | 20.000 | 1.535 | 39.000 | 0.520 | 13.200 |
| 51204 | 0.787 | 20.000 | 1.575 | 40.000 | 0.551 | 14.000 |
| 904 | 0.787 | 20.000 | 1.575 | 40.000 | 0.551 | 14.000 |
| 4104 | 0.787 | 20.000 | 1.575 | 40.000 | 0.630 | 16.000 |
| 1004 | 0.787 | 20.000 | 1.772 | 45.000 | 0.906 | 23.000 |
| 504 | 0.787 | 20.000 | 1.772 | 45.000 | 0.945 | 24.000 |
| 2007 | 0.813 | 20.638 | 1.250 | 31.750 | 0.500 | 12.700 |
| B6 | 0.813 | 20.638 | 1.469 | 37.310 | 0.625 | 15.880 |
| D6 | 0.813 | 20.638 | 1.469 | 37.313 | 0.563 | 14.300 |
| FT6 | 0.813 | 20.638 | 1.469 | 37.313 | 0.563 | 14.300 |
| GT6 | 0.813 | 20.638 | 1.469 | 37.313 | 0.563 | 14.300 |
| 08Y24 | 0.813 | 20.638 | 1.483 | 37.67 | 0.575 | 14.6 |
| 4406 | 0.813 | 20.638 | 1.688 | 42.880 | 0.625 | 15.875 |
| 08Y04 | 0.813 | 20.66 | 1.265 | 32.131 | 0.189 | 4.813 |
| 08Y42 | 0.814 | 20.68 | 1.093 | 27.76 | 0.250 | 6.35 |
| 08Y14 | 0.829 | 21.057 | 1.093 | 27.762 | 0.250 | 6.35 |
| 08Y23 | 0.843 | 21.4 | 1.562 | 39.675 | 0.501 | 12.725 |
| 08Y06 | 0.843 | 21.41 | 1.265 | 32.131 | 0.505 | 12.827 |
| 08Y07 | 0.843 | 21.41 | 1.390 | 35.306 | 0.505 | 12.827 |
| 08X12 | 0.844 | 21.438 | 1.625 | 41.275 | 1.000 | 25.4 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
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RT7 SHOWN FOR DIMENSIONAL REFERENCE



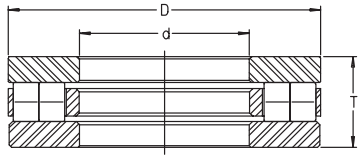

GT SHOWN FOR DIMENSIONAL REFERENCE

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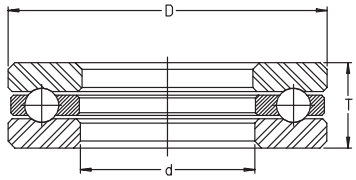
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 08Y32 | 0.847 | 21.514 | 1.375 | 34.925 | 0.500 | 12.7 |
| 2904-1/2 | 0.866 | 22.000 | 1.654 | 42.000 | 0.551 | 14.000 |
| 2011 | 0.875 | 22.225 | 1.375 | 34.925 | 0.563 | 14.288 |
| EW-7/8 | 0.875 | 22.225 | 1.500 | 38.100 | 0.375 | 9.525 |
| W-7/8 | 0.875 | 22.225 | 1.656 | 42.060 | 0.625 | 15.875 |
| D7 | 0.875 | 22.225 | 1.844 | 46.838 | 0.625 | 15.875 |
| FT7 | 0.875 | 22.225 | 1.844 | 46.838 | 0.625 | 15.875 |
| GT7 | 0.875 | 22.225 | 1.844 | 46.838 | 0.625 | 15.875 |
| RTL7 | 0.875 | 22.225 | 1.844 | 46.838 | 0.625 | 15.875 |
| B7 | 0.875 | 22.225 | 1.844 | 46.840 | 0.750 | 19.050 |
| 4407 | 0.875 | 22.225 | 1.938 | 49.230 | 0.750 | 19.050 |
| HW-7/8 | 0.875 | 22.225 | 2.063 | 52.400 | 1.000 | 25.400 |
| 08X25 | 0.875 | 22.225 | 2.563 | 65.088 | 0.781 | 19.844 |
| 08Y38 | 0.878 | 22.301 | 1.515 | 38.481 | 0.380 | 9.652 |
| 2001 | 0.938 | 23.813 | 1.500 | 38.100 | 0.500 | 12.700 |
| D8 | 0.938 | 23.813 | 1.844 | 46.838 | 0.625 | 15.875 |
| FT8 | 0.938 | 23.813 | 1.844 | 46.838 | 0.625 | 15.875 |
| GT8 | 0.938 | 23.813 | 1.844 | 46.838 | 0.625 | 15.875 |
| RTL8 | 0.938 | 23.813 | 1.844 | 46.838 | 0.625 | 15.875 |
| B8 | 0.938 | 23.813 | 1.844 | 46.838 | 0.750 | 19.050 |
| 4408 | 0.938 | 23.813 | 1.938 | 49.230 | 0.750 | 19.050 |
| FC67327 | 0.945 | 24 | 1.496 | 38 | 0.143 | 3.62 |
| FC67327.3 | 0.945 | 24 | 1.496 | 38 | 0.143 | 3.62 |
| 51105 | 0.984 | 25.000 | 1.654 | 42.000 | 0.433 | 11.000 |
| 811 05 TN | 0.984 | 25.000 | 1.654 | 42.000 | 0.433 | 11.000 |
| 2905 | 0.984 | 25.000 | 1.772 | 45.000 | 0.551 | 14.000 |
| DL25 | 0.984 | 25.000 | 1.772 | 45.000 | 0.551 | 14.000 |
| 51205 | 0.984 | 25.000 | 1.850 | 47.000 | 0.591 | 15.000 |
| F-233454.4 | 0.984 | 25 | 1.860 | 47.25 | 0.182 | 4.62 |
| 905 | 0.984 | 25.000 | 1.890 | 48.000 | 0.610 | 15.500 |
| 4105 | 0.984 | 25.000 | 1.890 | 48.000 | 0.669 | 17.000 |
| 505 | 0.984 | 25.000 | 2.284 | 58.000 | 1.181 | 30.000 |
| 09XS28 | 0.990 | 25.146 | 1.772 | 45.009 | 0.553 | 14.046 |
| 10Y25 | 1.000 | 25.4 | 1.500 | 38.1 | 0.625 | 15.875 |
| 2008 | 1.000 | 25.400 | 1.500 | 38.100 | 0.625 | 15.875 |
| FC69708.1 | 1.000 | 25.4 | 1.613 | 40.97 | 0.228 | 5.79 |
| 2087 | 1.000 | 25.400 | 1.625 | 41.275 | 0.563 | 14.288 |
| EW1 | 1.000 | 25.400 | 1.625 | 41.280 | 0.375 | 9.530 |
| 2010 | 1.000 | 25.400 | 1.750 | 44.450 | 0.563 | 14.288 |
| W1 | 1.000 | 25.400 | 1.781 | 45.240 | 0.625 | 15.875 |
| F-216064.3 | 1.000 | 25.4 | 1.925 | 48.9 | 0.197 | 5 |
| B9 | 1.000 | 25.400 | 1.969 | 50.010 | 0.750 | 19.050 |
| D9 | 1.000 | 25.400 | 1.969 | 50.013 | 0.625 | 15.875 |
| FT9 | 1.000 | 25.400 | 1.969 | 50.013 | 0.625 | 15.875 |
| GT9 | 1.000 | 25.400 | 1.969 | 50.013 | 0.625 | 15.875 |
| RTL9 | 1.000 | 25.400 | 1.969 | 50.013 | 0.625 | 15.875 |
| 4409 | 1.000 | 25.400 | 2.063 | 52.400 | 0.750 | 19.050 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
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RT7 SHOWN FOR DIMENSIONAL REFERENCE



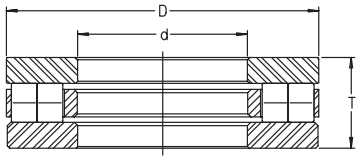

GT SHOWN FOR DIMENSIONAL REFERENCE

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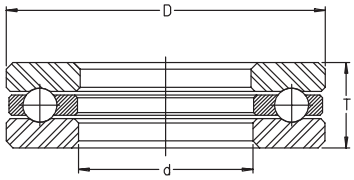
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| RT601 | 1.000 | 25.400 | 2.126 | 53.988 | 0.813 | 20.638 |
| RTW601 | 1.000 | 25.400 | 2.251 | 57.168 | 1.062 | 26.975 |
| HW1 | 1.000 | 25.400 | 2.438 | 61.930 | 1.125 | 28.575 |
| 10Y03 | 1.031 | 26.18 | 1.640 | 41.656 | 0.630 | 16.002 |
| RTW602 | 1.060 | 26.924 | 2.251 | 57.168 | 1.062 | 26.975 |
| 2209 | 1.063 | 26.988 | 1.687 | 42.850 | 0.625 | 15.875 |
| B10 | 1.063 | 26.988 | 1.969 | 50.012 | 0.750 | 19.050 |
| D10 | 1.063 | 26.988 | 1.969 | 50.013 | 0.625 | 15.875 |
| FT10 | 1.063 | 26.988 | 1.969 | 50.013 | 0.625 | 15.875 |
| GT10 | 1.063 | 26.988 | 1.969 | 50.013 | 0.625 | 15.875 |
| RTL10 | 1.063 | 26.988 | 1.969 | 50.013 | 0.625 | 15.875 |
| 4410 | 1.063 | 26.988 | 2.063 | 52.400 | 0.750 | 19.050 |
| RT602 | 1.063 | 26.988 | 2.126 | 53.988 | 0.812 | 20.625 |
| 10XS18 | 1.064 | 27.038 | 1.875 | 47.63 | 0.500 | 12.7 |
| EW1-1/8 | 1.125 | 28.575 | 1.750 | 44.450 | 0.375 | 9.530 |
| 2024 | 1.125 | 28.575 | 1.875 | 47.625 | 0.563 | 14.288 |
| W1-1/8 | 1.125 | 28.575 | 1.906 | 48.410 | 0.625 | 15.875 |
| 11Y01 | 1.125 | 28.575 | 1.995 | 50.673 | 0.627 | 15.926 |
| RTL11 | 1.125 | 28.575 | 2.094 | 53.181 | 0.625 | 15.875 |
| D11 | 1.125 | 28.575 | 2.094 | 53.188 | 0.625 | 15.875 |
| FT11 | 1.125 | 28.575 | 2.094 | 53.188 | 0.625 | 15.875 |
| GT11 | 1.125 | 28.575 | 2.094 | 53.188 | 0.625 | 15.875 |
| B11 | 1.125 | 28.575 | 2.094 | 53.190 | 0.750 | 19.050 |
| 4411 | 1.125 | 28.575 | 2.188 | 55.580 | 0.750 | 19.050 |
| 11RT03 | 1.125 | 28.575 | 2.250 | 57.15 | 0.752 | 19.1 |
| RT603 | 1.125 | 28.575 | 2.250 | 57.150 | 0.813 | 20.638 |
| RTW603 | 1.125 | 28.575 | 2.375 | 60.325 | 1.062 | 26.975 |
| 11RT04 | 1.127 | 28.626 | 2.625 | 66.675 | 0.752 | 19.1 |
| 11XS10 | 1.129 | 28.677 | 1.750 | 44.45 | 0.380 | 9.652 |
| 11X09 | 1.135 | 28.829 | 2.175 | 55.245 | 1.062 | 26.975 |
| 11X58 | 1.181 | 30 | 1.850 | 47 | 0.433 | 11 |
| 51106 | 1.181 | 30.000 | 1.850 | 47.000 | 0.433 | 11.000 |
| 811 06 TN | 1.181 | 30.000 | 1.850 | 47.000 | 0.433 | 11.000 |
| 2906 | 1.181 | 30.000 | 1.969 | 50.000 | 0.551 | 14.000 |
| 51206 | 1.181 | 30.000 | 2.047 | 52.000 | 0.630 | 16.000 |
| 812 06 TN | 1.181 | 30.000 | 2.047 | 52.000 | 0.630 | 16.000 |
| 906 | 1.181 | 30.000 | 2.087 | 53.000 | 0.610 | 15.500 |
| DL30 | 1.181 | 30.000 | 2.087 | 53.000 | 0.610 | 15.500 |
| 4106 | 1.181 | 30.000 | 2.087 | 53.000 | 0.709 | 18.000 |
| 893 06 TN | 1.181 | 30.000 | 2.362 | 60.000 | 0.709 | 18.000 |
| 3906 | 1.181 | 30.000 | 2.362 | 60.000 | 0.748 | 19.000 |
| 1908 | 1.181 | 30.000 | 2.520 | 64.000 | 1.260 | 32 |
| 808 | 1.181 | 30.000 | 2.520 | 64.000 | 1.496 | 38.000 |
| 11X04 | 1.181 | 30 | 2.717 | 69 | 1.654 | 42 |
| 11YT127E | 1.185 | 30.099 | 2.635 | 66.929 | 0.766 | 19.456 |
| 2283 | 1.188 | 30.163 | 1.938 | 49.212 | 0.531 | 13.494 |
| RTL12 | 1.188 | 30.163 | 2.094 | 53.181 | 0.625 | 15.875 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
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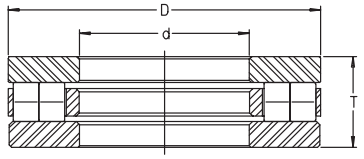

GT SHOWN FOR DIMENSIONAL REFERENCE

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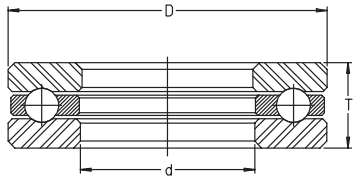
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| D12 | 1.188 | 30.163 | 2.094 | 53.188 | 0.625 | 15.875 |
| FT12 | 1.188 | 30.163 | 2.094 | 53.188 | 0.625 | 15.875 |
| GT12 | 1.188 | 30.163 | 2.094 | 53.188 | 0.625 | 15.875 |
| B12 | 1.188 | 30.163 | 2.094 | 53.190 | 0.750 | 19.050 |
| 4412 | 1.188 | 30.163 | 2.188 | 55.580 | 0.750 | 19.050 |
| RT604 | 1.188 | 30.163 | 2.250 | 57.150 | 0.813 | 20.637 |
| RTW604 | 1.188 | 30.163 | 2.375 | 60.325 | 1.062 | 26.975 |
| 2096 | 1.250 | 31.750 | 2.000 | 50.800 | 0.813 | 20.638 |
| EW1-1/4 | 1.250 | 31.750 | 2.063 | 52.400 | 0.500 | 12.700 |
| W1-1/4 | 1.250 | 31.750 | 2.094 | 53.190 | 0.719 | 18.260 |
| FC68496.1 | 1.250 | 31.75 | 2.120 | 53.848 | 0.184 | 4.67 |
| 4413 | 1.250 | 31.750 | 2.313 | 58.750 | 0.750 | 19.050 |
| RTL13 | 1.250 | 31.750 | 2.344 | 59.531 | 0.625 | 15.875 |
| D13 | 1.250 | 31.750 | 2.344 | 59.538 | 0.625 | 15.875 |
| FT13 | 1.250 | 31.750 | 2.344 | 59.538 | 0.625 | 15.875 |
| GT13 | 1.250 | 31.750 | 2.344 | 59.538 | 0.625 | 15.875 |
| B13 | 1.250 | 31.750 | 2.344 | 59.538 | 0.750 | 19.050 |
| RT605 | 1.250 | 31.750 | 2.375 | 60.325 | 0.813 | 20.637 |
| RTW605 | 1.250 | 31.750 | 2.500 | 63.500 | 1.063 | 26.988 |
| 12Y23 | 1.250 | 31.75 | 2.750 | 69.85 | 0.813 | 20.638 |
| 12YT127J | 1.256 | 31.902 | 2.635 | 66.929 | 0.766 | 19.456 |
| FC68495 | 1.275 | 32.385 | 2.162 | 54.915 | 0.193 | 4.9 |
| 12Y01 | 1.280 | 32.512 | 1.875 | 47.625 | 1.000 | 25.4 |
| 12Y03 | 1.281 | 32.542 | 2.140 | 54.356 | 1.005 | 25.527 |
| F-223428.1 | 1.299 | 33 | 2.047 | 52 | 0.161 | 4.1 |
| 13YS19SS | 1.299 | 33 | 2.484 | 63.09 | 0.630 | 16.01 |
| FC67909 | 1.306 | 33.18 | 1.925 | 48.9 | 0.143 | 3.62 |
| 13X11 | 1.313 | 33.338 | 2.254 | 57.25 | 0.688 | 17.463 |
| 13X49 | 1.313 | 33.338 | 2.254 | 57.252 | 0.689 | 17.488 |
| 4414 | 1.313 | 33.338 | 2.313 | 58.750 | 0.750 | 19.050 |
| RTL14 | 1.313 | 33.338 | 2.344 | 59.531 | 0.625 | 15.875 |
| D14 | 1.313 | 33.338 | 2.344 | 59.538 | 0.625 | 15.875 |
| FT14 | 1.313 | 33.338 | 2.344 | 59.538 | 0.625 | 15.875 |
| GT14 | 1.313 | 33.338 | 2.344 | 59.538 | 0.625 | 15.875 |
| B14 | 1.313 | 33.338 | 2.344 | 59.540 | 0.750 | 19.050 |
| RT606 | 1.313 | 33.338 | 2.375 | 60.325 | 0.813 | 20.637 |
| RTW606 | 1.313 | 33.338 | 2.500 | 63.500 | 1.062 | 26.975 |
| 13Y18 | 1.346 | 34.188 | 2.150 | 54.61 | 0.585 | 14.86 |
| FC67945 | 1.375 | 34.925 | 2.148 | 54.55 | 0.330 | 8.38 |
| EW1-3/8 | 1.375 | 34.925 | 2.188 | 55.575 | 0.500 | 12.700 |
| W1-3/8 | 1.375 | 34.925 | 2.219 | 56.360 | 0.719 | 18.260 |
| 4415 | 1.375 | 34.925 | 2.438 | 61.930 | 0.750 | 19.050 |
| D15 | 1.375 | 34.925 | 2.469 | 62.713 | 0.625 | 15.875 |
| FT15 | 1.375 | 34.925 | 2.469 | 62.713 | 0.625 | 15.875 |
| GT15 | 1.375 | 34.925 | 2.469 | 62.713 | 0.625 | 15.875 |
| RTL15 | 1.375 | 34.925 | 2.469 | 62.713 | 0.625 | 15.875 |
| B15 | 1.375 | 34.925 | 2.469 | 62.713 | 0.750 | 19.050 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



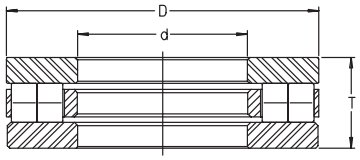

GT SHOWN FOR DIMENSIONAL REFERENCE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

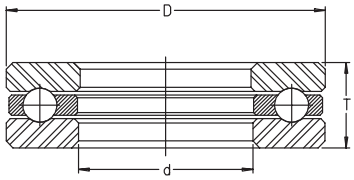
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| RT607 | 1.375 | 34.925 | 2.875 | 73.025 | 0.813 | 20.637 |
| RTW607 | 1.375 | 34.925 | 3.000 | 76.200 | 1.062 | 26.975 |
| 51107X | 1.378 | 35.000 | 2.047 | 52.000 | 0.472 | 12.000 |
| 811 07 TN | 1.378 | 35.000 | 2.047 | 52.000 | 0.472 | 12.000 |
| 51107 | 1.378 | 35.000 | 2.087 | 53.000 | 0.472 | 12.000 |
| 2907 | 1.378 | 35.000 | 2.165 | 55.000 | 0.630 | 16.000 |
| DL35 | 1.378 | 35.000 | 2.244 | 57.000 | 0.681 | 17.300 |
| 51207 | 1.378 | 35.000 | 2.441 | 62.000 | 0.709 | 18.000 |
| 812 07 TN | 1.378 | 35.000 | 2.441 | 62.000 | 0.709 | 18.000 |
| 907 | 1.378 | 35.000 | 2.441 | 62.000 | 0.709 | 18.000 |
| 4107 | 1.378 | 35.000 | 2.441 | 62.000 | 0.827 | 21.000 |
| 893 07 TN | 1.378 | 35.000 | 2.677 | 68.000 | 0.787 | 20.000 |
| 3907 | 1.378 | 35.000 | 2.677 | 68.000 | 0.906 | 23.000 |
| DM35 | 1.378 | 35.000 | 2.677 | 68.000 | 0.965 | 24.500 |
| 1007 | 1.378 | 35.000 | 2.835 | 72.000 | 1.457 | 37.000 |
| 4416 | 1.438 | 36.513 | 2.438 | 61.930 | 0.750 | 19.050 |
| B16 | 1.438 | 36.513 | 2.469 | 62.710 | 0.750 | 19.050 |
| FT16 | 1.438 | 36.513 | 2.469 | 62.713 | 0.625 | 15.875 |
| RTL16 | 1.438 | 36.513 | 2.469 | 62.713 | 0.625 | 15.875 |
| D16 | 1.438 | 36.513 | 2.469 | 65.888 | 0.625 | 15.875 |
| GT16 | 1.438 | 36.513 | 2.469 | 65.888 | 0.625 | 15.875 |
| RT608 | 1.438 | 36.513 | 2.875 | 73.025 | 0.812 | 20.625 |
| RTW608 | 1.438 | 36.513 | 3.000 | 76.200 | 1.602 | 40.691 |
| 2092 | 1.438 | 36.513 | 3.250 | 82.550 | 1.313 | 33.338 |
| FC68417 | 1.448 | 36.78 | 2.047 | 52 | 0.170 | 4.32 |
| FC67907 | 1.455 | 36.95 | 2.126 | 54 | 0.143 | 3.62 |
| FC68168 | 1.496 | 38 | 2.480 | 63 | 0.197 | 5 |
| EW1-1/2 | 1.500 | 38.100 | 2.313 | 58.750 | 0.500 | 12.700 |
| W1-1/2 | 1.500 | 38.100 | 2.344 | 59.540 | 0.719 | 18.260 |
| 4417 | 1.500 | 38.100 | 2.563 | 65.100 | 0.750 | 19.050 |
| RTL17 | 1.500 | 38.100 | 2.594 | 65.881 | 0.625 | 15.875 |
| D17 | 1.500 | 38.100 | 2.594 | 65.888 | 0.625 | 15.875 |
| FT17 | 1.500 | 38.100 | 2.594 | 65.888 | 0.625 | 15.875 |
| GT17 | 1.500 | 38.100 | 2.594 | 65.888 | 0.625 | 15.875 |
| B17 | 1.500 | 38.100 | 2.594 | 65.888 | 0.750 | 19.050 |
| MW1-1/2 | 1.500 | 38.100 | 2.875 | 73.025 | 1.125 | 28.575 |
| RT609 | 1.500 | 38.100 | 3.000 | 76.200 | 0.813 | 20.637 |
| RTW609 | 1.500 | 38.100 | 3.125 | 79.375 | 1.062 | 26.975 |
| 15X55 | 1.535 | 38.994 | 2.438 | 61.918 | 1.605 | 40.77 |
| 4418 | 1.563 | 39.688 | 2.563 | 65.100 | 0.750 | 19.050 |
| RTL18 | 1.563 | 39.688 | 2.594 | 65.881 | 0.625 | 15.875 |
| D18 | 1.563 | 39.688 | 2.594 | 65.888 | 0.625 | 15.875 |
| FT18 | 1.563 | 39.688 | 2.594 | 65.888 | 0.625 | 15.875 |
| GT18 | 1.563 | 39.688 | 2.594 | 65.888 | 0.625 | 15.875 |
| B18 | 1.563 | 39.688 | 2.594 | 65.890 | 0.750 | 19.050 |
| RT610 | 1.563 | 39.688 | 3.000 | 76.200 | 0.812 | 20.625 |
| RTW610 | 1.563 | 39.688 | 3.125 | 79.375 | 1.062 | 26.975 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



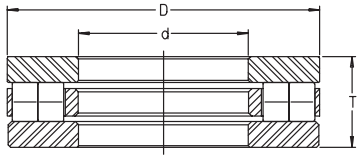

GT SHOWN FOR DIMENSIONAL REFERENCE

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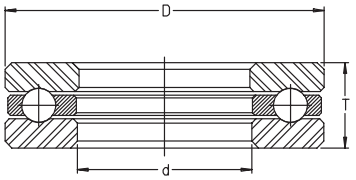
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 51108 | 1.575 | 40.000 | 2.362 | 60.000 | 0.512 | 13.000 |
| 811 08 TN | 1.575 | 40.000 | 2.362 | 60.000 | 0.512 | 13.000 |
| 2908 | 1.575 | 40.000 | 2.362 | 60.000 | 0.630 | 16.000 |
| F-201422 | 1.575 | 40 | 2.441 | 62 | 0.236 | 6 |
| 908 | 1.575 | 40.000 | 2.520 | 64.000 | 0.709 | 18.000 |
| DL40 | 1.575 | 40.000 | 2.520 | 64.000 | 0.748 | 19.000 |
| 4108 | 1.575 | 40.000 | 2.520 | 64.000 | 0.827 | 21.000 |
| 51208 | 1.575 | 40.000 | 2.677 | 68.000 | 0.748 | 19.000 |
| 812 08 TN | 1.575 | 40.000 | 2.677 | 68.000 | 0.748 | 19.000 |
| 893 08 TN | 1.575 | 40.000 | 3.071 | 78.000 | 0.866 | 22.000 |
| 508 | 1.575 | 40.000 | 3.347 | 85.000 | 1.732 | 44.000 |
| 874 08 | 1.575 | 40.000 | 3.543 | 90.000 | 0.906 | 23.000 |
| 15X40 | 1.575 | 40 | 3.543 | 90 | 1.449 | 36.8 |
| F-217925.1 | 1.591 | 40.4 | 2.149 | 54.58 | 0.143 | 3.62 |
| F-217926.1 | 1.591 | 40.4 | 2.149 | 54.58 | 0.150 | 3.8 |
| F-217927.1 | 1.591 | 40.4 | 2.149 | 54.58 | 0.157 | 4 |
| 2282 | 1.625 | 41.275 | 2.381 | 60.477 | 0.656 | 16.662 |
| EW1-5/8 | 1.625 | 41.275 | 2.438 | 61.930 | 0.500 | 12.700 |
| W1-5/8 | 1.625 | 41.275 | 2.469 | 62.710 | 0.719 | 18.260 |
| 4419 | 1.625 | 41.275 | 2.813 | 71.450 | 0.875 | 22.225 |
| B19 | 1.625 | 41.275 | 2.969 | 75.410 | 0.875 | 22.220 |
| FT19 | 1.625 | 41.275 | 2.969 | 75.413 | 0.813 | 20.638 |
| GT19 | 1.625 | 41.275 | 2.969 | 75.413 | 0.813 | 20.638 |
| D19 | 1.625 | 41.275 | 2.969 | 75.413 | 0.813 | 20.650 |
| RTL19 | 1.625 | 41.275 | 2.969 | 75.413 | 0.813 | 20.650 |
| RCT11 | 1.625 | 41.275 | 3.093 | 78.562 | 0.812 | 20.625 |
| RT611 | 1.625 | 41.275 | 3.250 | 82.550 | 1.000 | 25.400 |
| RTW611 | 1.625 | 41.275 | 3.375 | 85.725 | 1.312 | 33.325 |
| 16Y03 | 1.656 | 42.054 | 2.640 | 67.056 | 1.005 | 25.52 |
| 2041 | 1.688 | 42.863 | 2.375 | 60.325 | 0.563 | 14.288 |
| 4420 | 1.688 | 42.863 | 2.813 | 71.450 | 0.875 | 22.225 |
| B20 | 1.688 | 42.863 | 2.969 | 75.410 | 0.875 | 22.220 |
| FT20 | 1.688 | 42.863 | 2.969 | 75.413 | 0.813 | 20.638 |
| GT20 | 1.688 | 42.863 | 2.969 | 75.413 | 0.813 | 20.638 |
| D20 | 1.688 | 42.863 | 2.969 | 75.413 | 0.813 | 20.650 |
| RTL20 | 1.688 | 42.863 | 2.969 | 75.413 | 0.813 | 20.650 |
| RT612 | 1.688 | 42.863 | 3.250 | 82.550 | 1.000 | 25.400 |
| RTW612 | 1.688 | 42.863 | 3.376 | 85.748 | 1.313 | 33.338 |
| FC67908 | 1.695 | 43.06 | 2.496 | 63.4 | 0.137 | 3.47 |
| FC69100.1 | 1.726 | 43.85 | 2.641 | 67.09 | 0.198 | 5.02 |
| FC67996 | 1.744 | 44.31 | 2.434 | 61.83 | 0.150 | 3.81 |
| EW1-3/4 | 1.750 | 44.450 | 2.625 | 66.675 | 0.625 | 15.875 |
| W1-3/4 | 1.750 | 44.450 | 2.688 | 68.280 | 0.755 | 19.180 |
| 4421 | 1.750 | 44.450 | 2.938 | 74.630 | 0.875 | 22.225 |
| RTL21 | 1.750 | 44.450 | 3.094 | 78.588 | 0.813 | 20.637 |
| FT21 | 1.750 | 44.450 | 3.094 | 78.588 | 0.813 | 20.638 |
| GT21 | 1.750 | 44.450 | 3.094 | 78.588 | 0.813 | 20.638 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



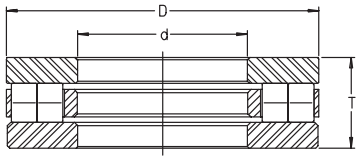

GT SHOWN FOR DIMENSIONAL REFERENCE

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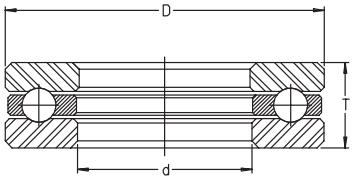
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| D21 | 1.750 | 44.450 | 3.094 | 78.588 | 0.813 | 20.650 |
| B21 | 1.750 | 44.450 | 3.094 | 78.590 | 0.875 | 22.220 |
| RT613 | 1.750 | 44.450 | 3.375 | 85.725 | 1.000 | 25.400 |
| RTW613 | 1.750 | 44.450 | 3.500 | 88.900 | 1.312 | 33.325 |
| 17YS10SS | 1.753 | 44.53 | 3.109 | 78.97 | 0.818 | 20.78 |
| 51109 | 1.772 | 45.000 | 2.559 | 65.000 | 0.551 | 14.000 |
| 811 09 TN | 1.772 | 45.000 | 2.559 | 65.000 | 0.551 | 14.000 |
| 2909 | 1.772 | 45.000 | 2.677 | 68.000 | 0.630 | 16.000 |
| DL45 | 1.772 | 45.000 | 2.835 | 72.000 | 0.886 | 22.500 |
| 51209 | 1.772 | 45.000 | 2.874 | 73.000 | 0.787 | 20.000 |
| 812 09 TN | 1.772 | 45.000 | 2.874 | 73.000 | 0.787 | 20.000 |
| 909 | 1.772 | 45.000 | 2.874 | 73.000 | 0.866 | 22.000 |
| 4109 | 1.772 | 45.000 | 2.874 | 73.000 | 0.984 | 25.000 |
| 893 09 TN | 1.772 | 45.000 | 3.346 | 85.000 | 0.945 | 24.000 |
| 3909 | 1.772 | 45.000 | 3.347 | 85.000 | 1.102 | 28.000 |
| 1009 | 1.772 | 45.000 | 3.740 | 95.000 | 1.850 | 47.000 |
| 509 | 1.772 | 45.000 | 3.740 | 95.000 | 1.969 | 50.000 |
| 874 09 | 1.772 | 45.000 | 3.937 | 100.000 | 0.984 | 25.000 |
| FC67905 | 1.774 | 45.05 | 2.480 | 63 | 0.143 | 3.62 |
| FC65785.3 | 1.776 | 45.11 | 2.460 | 62.48 | 0.143 | 3.63 |
| 17RT11 | 1.776 | 45.11 | 3.635 | 92.329 | 1.125 | 28.575 |
| 4422 | 1.813 | 46.038 | 2.938 | 74.630 | 0.875 | 22.225 |
| FT22 | 1.813 | 46.038 | 3.094 | 78.588 | 0.813 | 20.638 |
| GT22 | 1.813 | 46.038 | 3.094 | 78.588 | 0.813 | 20.638 |
| D22 | 1.813 | 46.038 | 3.094 | 78.588 | 0.813 | 20.650 |
| RTL22 | 1.813 | 46.038 | 3.094 | 78.588 | 0.813 | 20.650 |
| B22 | 1.813 | 46.038 | 3.094 | 78.590 | 0.875 | 22.220 |
| RT614 | 1.813 | 46.038 | 3.375 | 85.725 | 1.000 | 25.400 |
| RTW614 | 1.813 | 46.038 | 3.500 | 88.900 | 1.312 | 33.325 |
| FC67997 | 1.824 | 46.33 | 2.475 | 62.87 | 0.150 | 3.8 |
| 18Y02 | 1.828 | 46.431 | 2.608 | 66.243 | 0.630 | 16 |
| EW1-7/8 | 1.875 | 47.625 | 2.750 | 69.850 | 0.625 | 15.875 |
| W1-7/8 | 1.875 | 47.625 | 2.813 | 71.450 | 0.750 | 19.050 |
| 4423 | 1.875 | 47.625 | 3.063 | 77.800 | 0.875 | 22.225 |
| B23 | 1.875 | 47.625 | 3.219 | 81.760 | 0.875 | 22.220 |
| D23 | 1.875 | 47.625 | 3.219 | 81.763 | 0.813 | 20.650 |
| FT23 | 1.875 | 47.625 | 3.219 | 81.763 | 0.813 | 20.638 |
| GT23 | 1.875 | 47.625 | 3.219 | 81.763 | 0.813 | 20.638 |
| RTL23 | 1.875 | 47.625 | 3.219 | 81.763 | 0.813 | 20.650 |
| RT615 | 1.875 | 47.625 | 3.500 | 88.900 | 1.000 | 25.400 |
| RTW615 | 1.875 | 47.625 | 3.625 | 92.075 | 1.312 | 33.325 |
| 18X15 | 1.876 | 47.65 | 3.250 | 82.55 | 1.515 | 38.48 |
| FC69598 | 1.911 | 48.55 | 2.604 | 66.14 | 0.143 | 3.62 |
| F213342.3 | 1.924 | 48.87 | 2.582 | 65.58 | 0.143 | 3.62 |
| FC65970.2 | 1.924 | 48.87 | 2.604 | 66.14 | 0.143 | 3.63 |
| 4424 | 1.938 | 49.213 | 3.063 | 77.800 | 0.875 | 22.225 |
| B24 | 1.938 | 49.213 | 3.219 | 81.760 | 0.875 | 22.220 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



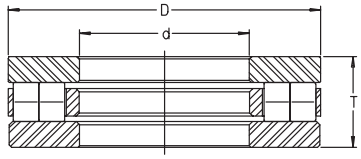

GT SHOWN FOR DIMENSIONAL REFERENCE

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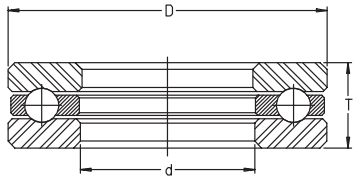
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| D24 | 1.938 | 49.213 | 3.219 | 81.763 | 0.813 | 20.650 |
| FT24 | 1.938 | 49.213 | 3.219 | 81.763 | 0.813 | 20.638 |
| GT24 | 1.938 | 49.213 | 3.219 | 81.763 | 0.813 | 20.638 |
| RTL24 | 1.938 | 49.213 | 3.219 | 81.763 | 0.813 | 20.650 |
| RCT16 | 1.938 | 49.213 | 3.246 | 82.448 | 0.812 | 20.625 |
| RT616 | 1.938 | 49.213 | 3.500 | 88.900 | 1.000 | 25.400 |
| RTW616 | 1.938 | 49.213 | 3.625 | 92.075 | 1.312 | 33.325 |
| 51110 | 1.969 | 50.000 | 2.756 | 70.000 | 0.551 | 14.000 |
| 811 10 TN | 1.969 | 50.000 | 2.756 | 70.000 | 0.551 | 14.000 |
| 2910 | 1.969 | 50.000 | 2.913 | 74.000 | 0.709 | 18.000 |
| 51210 | 1.969 | 50.000 | 3.071 | 78.000 | 0.866 | 22.000 |
| 812 10 TN | 1.969 | 50.000 | 3.071 | 78.000 | 0.866 | 22.000 |
| 910 | 1.969 | 50.000 | 3.071 | 78.000 | 0.866 | 22.000 |
| 4110 | 1.969 | 50.000 | 3.071 | 78.000 | 0.984 | 25.000 |
| DL50 | 1.969 | 50.000 | 3.150 | 80.000 | 0.965 | 24.500 |
| 1912 | 1.969 | 50.000 | 3.543 | 90.000 | 1.673 | 42.5 |
| 3910 | 1.969 | 50.000 | 3.622 | 92.000 | 1.221 | 31.000 |
| 893 10 TN | 1.969 | 50.000 | 3.740 | 95.000 | 1.063 | 27.000 |
| FC66199.4 | 1.970 | 50.05 | 3.091 | 78.5 | 0.583 | 14.8 |
| FC66935.1 | 1.979 | 50.27 | 2.876 | 73.05 | 0.143 | 3.63 |
| F226568.4 | 1.988 | 50.5 | 2.953 | 75 | 0.198 | 5.03 |
| EW2 | 2.000 | 50.800 | 2.875 | 73.020 | 0.625 | 15.875 |
| W2 | 2.000 | 50.800 | 2.969 | 75.410 | 0.750 | 19.050 |
| XW2 | 2.000 | 50.800 | 3.063 | 77.800 | 0.688 | 17.480 |
| 4425 | 2.000 | 50.800 | 3.188 | 80.980 | 0.875 | 22.225 |
| 2280 | 2.000 | 50.800 | 3.250 | 82.550 | 0.813 | 20.638 |
| D25 | 2.000 | 50.800 | 3.344 | 84.938 | 0.813 | 20.650 |
| RTL25 | 2.000 | 50.800 | 3.344 | 84.938 | 0.813 | 20.637 |
| FT25 | 2.000 | 50.800 | 3.344 | 84.938 | 0.813 | 20.638 |
| GT25 | 2.000 | 50.800 | 3.344 | 84.938 | 0.813 | 20.638 |
| B25 | 2.000 | 50.800 | 3.344 | 84.940 | 0.875 | 22.220 |
| 2023 | 2.000 | 50.800 | 3.500 | 88.900 | 1.625 | 41.275 |
| RT617 | 2.000 | 50.800 | 3.625 | 92.075 | 1.000 | 25.400 |
| MW2 | 2.000 | 50.800 | 3.688 | 93.680 | 1.375 | 34.925 |
| RTW617 | 2.000 | 50.800 | 3.750 | 95.250 | 1.312 | 33.325 |
| RCT17 | 2.000 | 50.800 | 3.952 | 100.380 | 1.000 | 25.400 |
| RWCT17 | 2.000 | 50.800 | 4.000 | 101.600 | 1.000 | 25.400 |
| RT727 | 2.000 | 50.800 | 6.000 | 152.400 | 1.375 | 34.925 |
| FC69103.1 | 2.037 | 51.75 | 3.035 | 77.09 | 0.238 | 6.05 |
| 20PS01 | 2.056 | 52.222 | 2.247 | 57.074 | 0.142 | 3.6 |
| 4426 | 2.063 | 52.388 | 3.188 | 80.980 | 0.875 | 22.225 |
| D26 | 2.063 | 52.388 | 3.344 | 84.938 | 0.813 | 20.650 |
| FT26 | 2.063 | 52.388 | 3.344 | 84.938 | 0.813 | 20.638 |
| GT26 | 2.063 | 52.388 | 3.344 | 84.938 | 0.813 | 20.638 |
| B26 | 2.063 | 52.388 | 3.344 | 84.940 | 0.875 | 22.220 |
| XW2-1/8 | 2.125 | 53.975 | 3.188 | 80.980 | 0.688 | 17.480 |
| W2-1/8 | 2.125 | 53.975 | 3.219 | 81.760 | 0.875 | 22.225 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



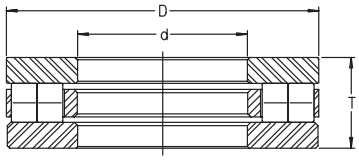

GT SHOWN FOR DIMENSIONAL REFERENCE

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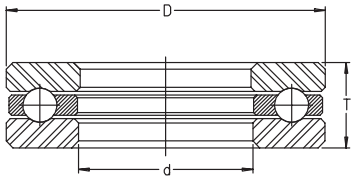
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 4427 | 2.125 | 53.975 | 3.313 | 84.150 | 0.875 | 22.225 |
| FT27 | 2.125 | 53.975 | 3.594 | 91.288 | 0.813 | 20.638 |
| GT27 | 2.125 | 53.975 | 3.594 | 91.288 | 0.813 | 20.638 |
| D27 | 2.125 | 53.975 | 3.594 | 91.288 | 0.813 | 20.650 |
| RTL27 | 2.125 | 53.975 | 3.594 | 91.288 | 0.813 | 20.650 |
| B27 | 2.125 | 53.975 | 3.594 | 91.290 | 0.875 | 22.225 |
| RT618 | 2.125 | 53.975 | 3.750 | 95.250 | 1.000 | 25.400 |
| RTW618 | 2.125 | 53.975 | 3.875 | 98.425 | 1.312 | 33.325 |
| FC67324.7 | 2.126 | 54 | 3.032 | 77.01 | 0.188 | 4.77 |
| FC65747 | 2.128 | 54.04 | 2.900 | 73.66 | 0.143 | 3.63 |
| 51111 | 2.165 | 55.000 | 3.071 | 78.000 | 0.630 | 16.000 |
| 811 11 TN | 2.165 | 55.000 | 3.071 | 78.000 | 0.630 | 16.000 |
| 2911 | 2.165 | 55.000 | 3.071 | 78.000 | 0.709 | 18.000 |
| 911 | 2.165 | 55.000 | 3.465 | 88.000 | 0.965 | 24.500 |
| 4111 | 2.165 | 55.000 | 3.465 | 88.000 | 1.102 | 28.000 |
| DL55 | 2.165 | 55.000 | 3.465 | 88.000 | 1.102 | 28.000 |
| 51211 | 2.165 | 55.000 | 3.543 | 90.000 | 0.984 | 25.000 |
| 812 11 TN | 2.165 | 55.000 | 3.543 | 90.000 | 0.984 | 25.000 |
| 3911 | 2.165 | 55.000 | 3.937 | 100.000 | 1.299 | 33.000 |
| 893 11 TN | 2.165 | 55.000 | 4.134 | 105.000 | 1.181 | 30.000 |
| FC67324.1S | 2.186 | 55.53 | 3.032 | 77.01 | 0.188 | 4.77 |
| 4428 | 2.188 | 55.563 | 3.313 | 84.138 | 0.875 | 22.225 |
| FT28 | 2.188 | 55.563 | 3.594 | 91.288 | 0.813 | 20.638 |
| GT28 | 2.188 | 55.563 | 3.594 | 91.288 | 0.813 | 20.638 |
| D28 | 2.188 | 55.563 | 3.594 | 91.288 | 0.813 | 20.650 |
| RTL28 | 2.188 | 55.563 | 3.594 | 91.288 | 0.813 | 20.650 |
| B28 | 2.188 | 55.563 | 3.594 | 91.290 | 0.875 | 22.220 |
| 21Z02 | 2.188 | 55.575 | 3.751 | 95.275 | 1.255 | 31.87 |
| 21P01 | 2.190 | 55.626 | 3.594 | 91.288 | 0.817 | 20.75 |
| 4703 | 2.248 | 57.099 | 3.372 | 85.649 | 0.755 | 19.177 |
| EW2-1/4 | 2.250 | 57.150 | 3.125 | 79.380 | 0.625 | 15.875 |
| B29 | 2.250 | 57.150 | 3.719 | 80.747 | 0.875 | 22.220 |
| W2-1/4 | 2.250 | 57.150 | 3.344 | 84.940 | 0.875 | 22.225 |
| XW2-1/4 | 2.250 | 57.150 | 3.352 | 85.150 | 0.688 | 17.480 |
| 22X23 | 2.250 | 57.15 | 3.438 | 87.313 | 0.875 | 22.225 |
| 4429 | 2.250 | 57.150 | 3.438 | 87.330 | 0.880 | 22.360 |
| FT29 | 2.250 | 57.150 | 3.719 | 94.463 | 0.813 | 20.638 |
| GT29 | 2.250 | 57.150 | 3.719 | 94.463 | 0.813 | 20.638 |
| D29 | 2.250 | 57.150 | 3.719 | 94.463 | 0.813 | 20.650 |
| RTL29 | 2.250 | 57.150 | 3.719 | 94.463 | 0.813 | 20.650 |
| RT619 | 2.250 | 57.150 | 3.875 | 98.425 | 1.000 | 25.400 |
| RCT19 | 2.250 | 57.150 | 4.000 | 101.600 | 1.000 | 25.400 |
| RTW619 | 2.250 | 57.150 | 4.000 | 101.600 | 1.312 | 33.325 |
| RCT20C | 2.250 | 57.150 | 4.250 | 107.950 | 1.000 | 25.400 |
| RWCT19 | 2.250 | 57.150 | 4.250 | 107.950 | 1.000 | 25.400 |
| FC65786.2 | 2.294 | 58.27 | 3.076 | 78.13 | 0.143 | 3.63 |
| FC67906 | 2.294 | 58.27 | 3.109 | 78.98 | 0.143 | 3.62 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



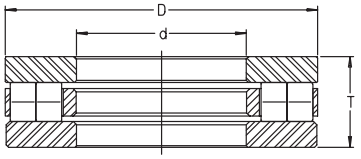

GT SHOWN FOR DIMENSIONAL REFERENCE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

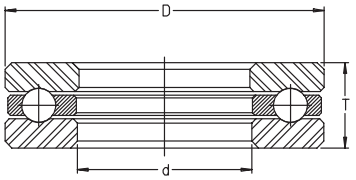
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 4430 | 2.313 | 58.738 | 3.438 | 87.330 | 0.875 | 22.225 |
| B30 | 2.313 | 58.738 | 3.719 | 94.460 | 0.875 | 22.220 |
| FT30 | 2.313 | 58.738 | 3.719 | 94.463 | 0.813 | 20.638 |
| GT30 | 2.313 | 58.738 | 3.719 | 94.463 | 0.813 | 20.638 |
| D30 | 2.313 | 58.738 | 3.719 | 94.463 | 0.813 | 20.650 |
| RCT20B | 2.313 | 58.738 | 4.265 | 108.331 | 1.005 | 25.527 |
| 2912 | 2.362 | 60.000 | 3.228 | 82.000 | 0.709 | 18.000 |
| 51112 | 2.362 | 60.000 | 3.347 | 85.000 | 0.669 | 17.000 |
| 811 12 TN | 2.362 | 60.000 | 3.346 | 85.000 | 0.669 | 17.000 |
| 2913 | 2.362 | 60.000 | 3.543 | 90.000 | 0.787 | 20.000 |
| 912 | 2.362 | 60.000 | 3.543 | 90.000 | 0.965 | 24.500 |
| 4112 | 2.362 | 60.000 | 3.543 | 90.000 | 1.102 | 28.000 |
| 51212 | 2.362 | 60.000 | 3.740 | 95.000 | 1.024 | 26.000 |
| 812 12 TN | 2.362 | 60.000 | 3.740 | 95.000 | 1.024 | 26.000 |
| DL60 | 2.362 | 60.000 | 3.858 | 98.000 | 1.201 | 30.500 |
| 3912 | 2.362 | 60.000 | 4.173 | 106.000 | 1.378 | 35.000 |
| 893 12 TN | 2.362 | 60.000 | 4.331 | 110.000 | 1.181 | 30.000 |
| 874 12 | 2.362 | 60.000 | 5.118 | 130.000 | 1.260 | 32.000 |
| 512 | 2.362 | 60.000 | 5.118 | 130.000 | 2.677 | 68.000 |
| F-218320 | 2.374 | 60.3 | 3.260 | 82.8 | 0.110 | 2.8 |
| F-223348 | 2.374 | 60.3 | 3.260 | 82.8 | 0.116 | 2.95 |
| F-223349 | 2.374 | 60.3 | 3.272 | 83.1 | 0.124 | 3.15 |
| F-223350 | 2.374 | 60.3 | 3.287 | 83.5 | 0.132 | 3.35 |
| XW2-3/8 | 2.375 | 60.325 | 3.438 | 87.330 | 0.688 | 17.480 |
| 4431 | 2.375 | 60.325 | 3.563 | 90.500 | 0.875 | 22.225 |
| W2-3/8 | 2.375 | 60.325 | 3.594 | 91.290 | 1.000 | 25.400 |
| D31 | 2.375 | 60.325 | 3.844 | 97.638 | 0.813 | 20.650 |
| FT31 | 2.375 | 60.325 | 3.844 | 97.638 | 0.813 | 20.638 |
| GT31 | 2.375 | 60.325 | 3.844 | 97.638 | 0.813 | 20.638 |
| RTL31 | 2.375 | 60.325 | 3.844 | 97.638 | 0.813 | 20.650 |
| B31 | 2.375 | 60.325 | 3.844 | 97.640 | 0.875 | 22.220 |
| RT620 | 2.375 | 60.325 | 4.000 | 101.600 | 1.000 | 25.400 |
| RTW620 | 2.375 | 60.325 | 4.125 | 104.775 | 1.312 | 33.325 |
| FC68865 | 2.380 | 60.45 | 3.285 | 83.45 | 0.222 | 5.63 |
| 4432 | 2.438 | 61.913 | 3.563 | 90.500 | 0.875 | 22.225 |
| D32 | 2.438 | 61.913 | 3.844 | 97.638 | 0.813 | 20.650 |
| FT32 | 2.438 | 61.913 | 3.844 | 97.638 | 0.813 | 20.638 |
| GT32 | 2.438 | 61.913 | 3.844 | 97.638 | 0.813 | 20.638 |
| RTL32 | 2.438 | 61.913 | 3.844 | 97.638 | 0.813 | 20.650 |
| B32 | 2.438 | 61.913 | 3.844 | 97.640 | 0.875 | 22.225 |
| F-225458 | 2.445 | 62.1 | 3.260 | 82.8 | 0.110 | 2.8 |
| F-225459 | 2.445 | 62.1 | 3.260 | 82.8 | 0.116 | 2.95 |
| F-225461 | 2.445 | 62.1 | 3.287 | 83.5 | 0.132 | 3.35 |
| FC66012.9 | 2.488 | 63.2 | 3.380 | 85.85 | 0.152 | 3.87 |
| FC66012 | 2.488 | 63.2 | 3.380 | 85.85 | 0.153 | 3.88 |
| FC66012S381 | 2.488 | 63.2 | 3.380 | 85.85 | 0.153 | 3.88 |
| XW2-1/2 | 2.500 | 63.500 | 3.563 | 90.500 | 0.688 | 17.480 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



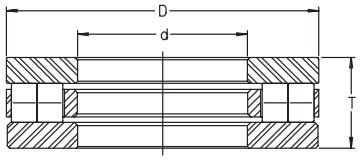

GT SHOWN FOR DIMENSIONAL REFERENCE

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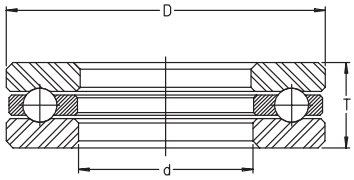
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 2281 | 2.500 | 63.500 | 3.688 | 93.662 | 0.938 | 23.813 |
| W2-1/2 | 2.500 | 63.500 | 3.719 | 94.460 | 1.000 | 25.400 |
| D33 | 2.500 | 63.500 | 3.969 | 100.813 | 0.813 | 20.650 |
| RTL33 | 2.500 | 63.500 | 3.969 | 100.813 | 0.813 | 20.637 |
| FT33 | 2.500 | 63.500 | 3.969 | 100.813 | 0.814 | 20.671 |
| GT33 | 2.500 | 63.500 | 3.969 | 100.813 | 0.814 | 20.671 |
| B33 | 2.500 | 63.500 | 3.969 | 100.813 | 0.875 | 22.225 |
| 4433 | 2.500 | 63.500 | 4.000 | 101.600 | 1.125 | 28.580 |
| RT621 | 2.500 | 63.500 | 4.126 | 104.803 | 1.000 | 25.400 |
| RTW621 | 2.500 | 63.500 | 4.250 | 107.950 | 1.312 | 33.325 |
| 25Y07 | 2.502 | 63.551 | 4.541 | 115.34 | 1.847 | 46.91 |
| FC67222.1 | 2.540 | 64.516 | 3.320 | 84.328 | 0.159 | 4.03 |
| 51113 | 2.559 | 65.000 | 3.543 | 90.000 | 0.709 | 18.000 |
| 811 13 TN | 2.559 | 65.000 | 3.543 | 90.000 | 0.709 | 18.000 |
| 51213 | 2.559 | 65.000 | 3.937 | 100.000 | 1.063 | 27.000 |
| 812 13 TN | 2.559 | 65.000 | 3.937 | 100.000 | 1.063 | 27.000 |
| 913 | 2.559 | 65.000 | 3.937 | 100.000 | 1.063 | 27.000 |
| 4113 | 2.559 | 65.000 | 3.937 | 100.000 | 1.260 | 32.000 |
| DL65 | 2.559 | 65.000 | 4.055 | 103.000 | 1.240 | 31.500 |
| 3913 | 2.559 | 65.000 | 4.409 | 112.000 | 1.417 | 36.000 |
| 893 13 TN | 2.559 | 65.000 | 4.528 | 115.000 | 1.181 | 30.000 |
| 513 | 2.559 | 65.000 | 5.512 | 140.000 | 2.913 | 74.000 |
| 513 | 2.559 | 65 | 5.512 | 140 | 2.913 | 74 |
| D34 | 2.563 | 65.088 | 3.969 | 100.813 | 0.813 | 20.650 |
| FT34 | 2.563 | 65.088 | 3.969 | 100.813 | 0.813 | 20.638 |
| GT34 | 2.563 | 65.088 | 3.969 | 100.813 | 0.813 | 20.638 |
| B34 | 2.563 | 65.088 | 3.969 | 100.813 | 0.875 | 22.225 |
| 4434 | 2.563 | 65.088 | 4.000 | 101.600 | 1.125 | 28.580 |
| 25Y14 | 2.566 | 65.176 | 3.968 | 100.787 | 0.880 | 22.352 |
| 26RTW08 | 2.618 | 66.497 | 4.186 | 106.324 | 1.345 | 34.163 |
| 26RT18 | 2.624 | 66.65 | 4.342 | 110.287 | 1.005 | 25.527 |
| 26RT19 | 2.624 | 66.65 | 4.342 | 110.287 | 1.396 | 35.458 |
| 26RT20 | 2.624 | 66.65 | 4.342 | 110.29 | 1.005 | 25.53 |
| XW2-5/8 | 2.625 | 66.675 | 3.750 | 95.250 | 0.750 | 19.050 |
| W2-5/8 | 2.625 | 66.675 | 3.844 | 97.640 | 1.000 | 25.400 |
| 4435 | 2.625 | 66.675 | 4.125 | 104.770 | 1.125 | 28.580 |
| RT622 | 2.625 | 66.675 | 4.343 | 110.300 | 1.000 | 25.400 |
| D35 | 2.625 | 66.675 | 4.344 | 110.338 | 1.000 | 25.400 |
| FT35 | 2.625 | 66.675 | 4.344 | 110.338 | 1.000 | 25.400 |
| GT35 | 2.625 | 66.675 | 4.344 | 110.338 | 1.000 | 25.400 |
| RTL35 | 2.625 | 66.675 | 4.344 | 110.338 | 1.000 | 25.400 |
| B35 | 2.625 | 66.675 | 4.344 | 110.340 | 1.125 | 28.580 |
| RTW622 | 2.625 | 66.675 | 4.530 | 115.062 | 1.312 | 33.325 |
| 26RT17.2 | 2.627 | 66.726 | 6.015 | 152.781 | 0.939 | 23.85 |
| FC67977 | 2.627 | 66.726 | 6.015 | 152.781 | 0.939 | 23.85 |
| D36 | 2.688 | 68.263 | 4.344 | 110.338 | 1.000 | 25.400 |
| FT36 | 2.688 | 68.263 | 4.344 | 110.338 | 1.000 | 25.400 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



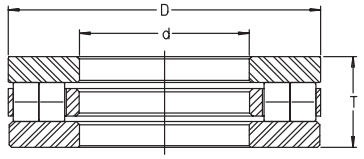

GT SHOWN FOR DIMENSIONAL REFERENCE

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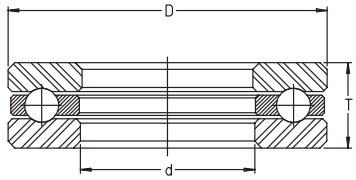
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| GT36 | 2.688 | 68.263 | 4.344 | 110.338 | 1.000 | 25.400 |
| B36 | 2.688 | 68.263 | 4.344 | 110.340 | 1.125 | 28.580 |
| XW2-3/4 | 2.750 | 69.850 | 3.875 | 98.430 | 0.750 | 19.050 |
| W2-3/4 | 2.750 | 69.850 | 4.031 | 102.390 | 1.000 | 25.400 |
| 4436 | 2.750 | 69.850 | 4.250 | 107.950 | 1.125 | 28.580 |
| RT623 | 2.750 | 69.850 | 4.468 | 113.475 | 1.000 | 25.400 |
| B37 | 2.750 | 69.850 | 4.469 | 113.510 | 1.125 | 28.580 |
| D37 | 2.750 | 69.850 | 4.469 | 113.513 | 1.000 | 25.400 |
| FT37 | 2.750 | 69.850 | 4.469 | 113.513 | 1.000 | 25.400 |
| GT37 | 2.750 | 69.850 | 4.469 | 113.513 | 1.000 | 25.400 |
| RTL37 | 2.750 | 69.850 | 4.469 | 113.513 | 1.000 | 25.400 |
| RTW623 | 2.750 | 69.850 | 4.655 | 118.237 | 1.313 | 33.338 |
| RCT23 | 2.750 | 69.850 | 4.750 | 120.650 | 1.000 | 25.400 |
| RWCT23 | 2.750 | 69.850 | 4.843 | 123.012 | 1.000 | 25.400 |
| RCT24A | 2.750 | 69.850 | 4.875 | 123.825 | 1.250 | 31.750 |
| 51114 | 2.756 | 70.000 | 3.740 | 95.000 | 0.709 | 18.000 |
| 811 14 TN | 2.756 | 70.000 | 3.740 | 95.000 | 0.709 | 18.000 |
| 2914 | 2.756 | 70.000 | 3.740 | 95.000 | 0.787 | 20.000 |
| 27X30 | 2.756 | 70 | 4.055 | 103 | 1.063 | 27 |
| 914 | 2.756 | 70.000 | 4.055 | 103.000 | 1.063 | 27.000 |
| 4114 | 2.756 | 70.000 | 4.055 | 103.000 | 1.260 | 32.000 |
| 51214 | 2.756 | 70.000 | 4.134 | 105.000 | 1.063 | 27.000 |
| 812 14 TN | 2.756 | 70.000 | 4.134 | 105.000 | 1.063 | 27.000 |
| DL70 | 2.756 | 70.000 | 4.252 | 108.000 | 1.260 | 32.000 |
| 3914 | 2.756 | 70.000 | 4.724 | 120.000 | 1.496 | 38.000 |
| DM70 | 2.756 | 70.000 | 4.803 | 122.000 | 1.634 | 41.500 |
| 893 14 TN | 2.756 | 70.000 | 4.921 | 125.000 | 1.339 | 34.000 |
| 874 14 | 2.756 | 70.000 | 5.906 | 150.000 | 1.417 | 36.000 |
| 514 | 2.756 | 70.000 | 5.906 | 150.000 | 3.150 | 80.000 |
| B38 | 2.813 | 71.438 | 4.469 | 113.510 | 1.125 | 28.580 |
| D38 | 2.813 | 71.438 | 4.469 | 113.513 | 1.000 | 25.400 |
| FT38 | 2.813 | 71.438 | 4.469 | 113.513 | 1.000 | 25.400 |
| GT38 | 2.813 | 71.438 | 4.469 | 113.513 | 1.000 | 25.400 |
| RCT23B | 2.813 | 71.438 | 4.750 | 120.650 | 1.000 | 25.400 |
| XW2-7/8 | 2.875 | 73.025 | 4.000 | 101.600 | 0.750 | 19.050 |
| W2-7/8 | 2.875 | 73.025 | 4.156 | 105.560 | 1.000 | 25.400 |
| FT39 | 2.875 | 73.025 | 4.594 | 116.688 | 1.000 | 25.400 |
| GT39 | 2.875 | 73.025 | 4.594 | 116.688 | 1.000 | 25.400 |
| F-390470.7 | 2.902 | 73.7 | 3.583 | 91 | 0.143 | 3.62 |
| 4437 | 2.938 | 74.613 | 4.438 | 112.730 | 1.125 | 28.580 |
| D39 | 2.938 | 74.613 | 4.594 | 116.688 | 1.000 | 25.400 |
| FT40 | 2.938 | 74.613 | 4.594 | 116.688 | 1.000 | 25.400 |
| GT40 | 2.938 | 74.613 | 4.594 | 116.688 | 1.000 | 25.400 |
| B39 | 2.938 | 74.613 | 4.594 | 116.690 | 1.125 | 28.580 |
| 51115 | 2.953 | 75.000 | 3.937 | 100.000 | 0.748 | 19.000 |
| 811 15 TN | 2.953 | 75.000 | 3.937 | 100.000 | 0.748 | 19.000 |
| 2915 | 2.953 | 75.000 | 3.937 | 100.000 | 0.787 | 20.000 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
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RT7 SHOWN FOR DIMENSIONAL REFERENCE



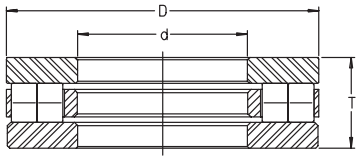

GT SHOWN FOR DIMENSIONAL REFERENCE

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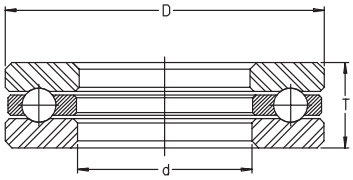
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 51215 | 2.953 | 75.000 | 4.331 | 110.000 | 1.063 | 27.000 |
| 812 15 TN | 2.953 | 75.000 | 4.331 | 110.000 | 1.063 | 27.000 |
| 915 | 2.953 | 75.000 | 4.331 | 110.000 | 1.063 | 27.000 |
| 4115 | 2.953 | 75.000 | 4.331 | 110.000 | 1.260 | 32.000 |
| DL75 | 2.953 | 75.000 | 4.409 | 112.000 | 1.280 | 32.500 |
| 3915 | 2.953 | 75.000 | 5.039 | 128.000 | 1.614 | 41.000 |
| 893 15 TN | 2.953 | 75.000 | 5.315 | 135.000 | 1.417 | 36.000 |
| 515 | 2.953 | 75.000 | 6.299 | 160.000 | 3.268 | 83.000 |
| XW3 | 3.000 | 76.200 | 4.125 | 104.770 | 0.750 | 19.050 |
| W3 | 3.000 | 76.200 | 4.375 | 111.130 | 1.125 | 28.580 |
| 4438 | 3.000 | 76.200 | 4.500 | 114.300 | 1.125 | 28.580 |
| D39-1/2 | 3.000 | 76.200 | 4.594 | 116.688 | 1.000 | 25.400 |
| B40 | 3.000 | 76.200 | 4.719 | 119.860 | 1.125 | 28.580 |
| D40 | 3.000 | 76.200 | 4.719 | 119.863 | 1.000 | 25.400 |
| FT41 | 3.000 | 76.200 | 4.719 | 119.863 | 1.000 | 25.400 |
| GT41 | 3.000 | 76.200 | 4.719 | 119.863 | 1.000 | 25.400 |
| RTL41 | 3.000 | 76.200 | 4.719 | 119.863 | 1.000 | 25.400 |
| RT624 | 3.000 | 76.200 | 4.719 | 119.870 | 1.000 | 25.400 |
| RTW624 | 3.000 | 76.200 | 4.969 | 126.213 | 1.312 | 33.325 |
| RT730 | 3.000 | 76.200 | 6.000 | 152.400 | 1.375 | 34.925 |
| 30RT04 | 3.000 | 76.2 | 6.380 | 162.052 | 1.312 | 33.32 |
| RT731 | 3.000 | 76.200 | 7.000 | 177.800 | 1.375 | 34.925 |
| RT732 | 3.000 | 76.200 | 8.000 | 203.200 | 1.375 | 34.925 |
| RT733 | 3.000 | 76.200 | 9.000 | 228.600 | 1.375 | 34.925 |
| 30RT20.2 | 3.002 | 76.251 | 8.010 | 203.454 | 0.939 | 23.85 |
| FT42 | 3.063 | 77.788 | 4.719 | 119.863 | 1.000 | 25.400 |
| GT42 | 3.063 | 77.788 | 4.719 | 119.863 | 1.000 | 25.400 |
| XW3-1/8 | 3.125 | 79.375 | 4.250 | 107.950 | 0.750 | 19.050 |
| W3-1/8 | 3.125 | 79.375 | 4.500 | 114.300 | 1.125 | 28.580 |
| 4439 | 3.125 | 79.375 | 4.625 | 117.480 | 1.125 | 28.580 |
| 51116 | 3.150 | 80.000 | 4.134 | 105.000 | 0.748 | 19.000 |
| 811 16 TN | 3.150 | 80.000 | 4.134 | 105.000 | 0.748 | 19.000 |
| 2916 | 3.150 | 80.000 | 4.331 | 110.000 | 0.906 | 23.000 |
| 51216 | 3.150 | 80.000 | 4.528 | 115.000 | 1.102 | 28.000 |
| 812 16 TN | 3.150 | 80.000 | 4.528 | 115.000 | 1.102 | 28.000 |
| 31X42 | 3.150 | 80 | 4.528 | 115 | 1.142 | 29 |
| 916 | 3.150 | 80.000 | 4.528 | 115.000 | 1.142 | 29.000 |
| 4116 | 3.150 | 80.000 | 4.528 | 115.000 | 1.378 | 35.000 |
| DL80 | 3.150 | 80.000 | 4.646 | 118.000 | 1.339 | 34.000 |
| 3916 | 3.150 | 80.000 | 5.354 | 136.000 | 1.732 | 44.000 |
| 893 16 TN | 3.150 | 80.000 | 5.512 | 140.000 | 1.417 | 36.000 |
| 516 | 3.150 | 80.000 | 6.693 | 170.000 | 3.543 | 90.000 |
| 31X14 | 3.177 | 80.696 | 4.248 | 107.899 | 0.552 | 14.021 |
| 32RT01 | 3.249 | 82.517 | 4.875 | 123.825 | 1.000 | 25.4 |
| XW3-1/4 | 3.250 | 82.550 | 4.375 | 111.130 | 0.750 | 19.050 |
| 2279 | 3.250 | 82.550 | 4.499 | 114.262 | 1.125 | 28.575 |
| 4440 | 3.250 | 82.550 | 4.750 | 120.650 | 1.125 | 28.580 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



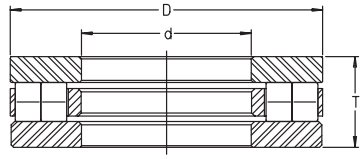

GT SHOWN FOR DIMENSIONAL REFERENCE

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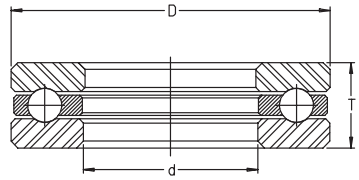
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| W3-1/4 | 3.250 | 82.550 | 4.813 | 122.250 | 1.250 | 31.750 |
| RT625 | 3.250 | 82.550 | 4.968 | 126.187 | 1.000 | 25.400 |
| B41 | 3.250 | 82.550 | 4.969 | 126.210 | 1.125 | 28.580 |
| D41 | 3.250 | 82.550 | 4.969 | 126.213 | 1.000 | 25.400 |
| FT43 | 3.250 | 82.550 | 4.969 | 126.213 | 1.000 | 25.400 |
| GT43 | 3.250 | 82.550 | 4.969 | 126.213 | 1.000 | 25.400 |
| RTL43 | 3.250 | 82.550 | 4.969 | 126.213 | 1.000 | 25.400 |
| RTW625 | 3.250 | 82.550 | 5.220 | 132.585 | 1.313 | 33.338 |
| RCT27A | 3.250 | 82.550 | 6.125 | 155.575 | 1.500 | 38.100 |
| RCT27C | 3.250 | 82.550 | 6.187 | 157.150 | 1.750 | 44.450 |
| RWCT27C | 3.250 | 82.550 | 6.375 | 161.925 | 1.750 | 44.450 |
| 51117 | 3.347 | 85.000 | 4.331 | 110.000 | 0.748 | 19.000 |
| 811 17 TN | 3.347 | 85.000 | 4.331 | 110.000 | 0.748 | 19.000 |
| 2917 | 3.347 | 85.000 | 4.528 | 115.000 | 0.866 | 22.000 |
| 917 | 3.347 | 85.000 | 4.921 | 125.000 | 1.201 | 30.500 |
| 51217 | 3.347 | 85.000 | 4.921 | 125.000 | 1.221 | 31.000 |
| 812 17 TN | 3.347 | 85.000 | 4.921 | 125.000 | 1.220 | 31.000 |
| DL85 | 3.347 | 85.000 | 4.921 | 125.000 | 1.339 | 34.000 |
| 4117 | 3.347 | 85.000 | 4.921 | 125.000 | 1.496 | 38.000 |
| 893 17 | 3.347 | 85.000 | 5.906 | 150.000 | 1.535 | 39.000 |
| 517 | 3.347 | 85.000 | 7.087 | 180.000 | 3.740 | 95.000 |
| XW3-3/8 | 3.375 | 85.725 | 4.500 | 114.300 | 0.750 | 19.050 |
| 4441 | 3.375 | 85.725 | 4.875 | 123.820 | 1.125 | 28.580 |
| W3-3/8 | 3.375 | 85.725 | 4.938 | 125.430 | 1.250 | 31.750 |
| XW3-1/2 | 3.500 | 88.900 | 4.625 | 117.480 | 0.750 | 19.050 |
| 4442 | 3.500 | 88.900 | 5.000 | 127.000 | 1.125 | 28.580 |
| W3-1/2 | 3.500 | 88.900 | 5.063 | 128.600 | 1.250 | 31.750 |
| B42 | 3.500 | 88.900 | 5.219 | 132.560 | 1.125 | 28.580 |
| D42 | 3.500 | 88.900 | 5.219 | 132.563 | 1.000 | 25.400 |
| FT44 | 3.500 | 88.900 | 5.219 | 132.563 | 1.000 | 25.400 |
| GT44 | 3.500 | 88.900 | 5.219 | 132.563 | 1.000 | 25.400 |
| RTL44 | 3.500 | 88.900 | 5.219 | 132.563 | 1.000 | 25.400 |
| RT626 | 3.500 | 88.900 | 5.220 | 132.575 | 1.000 | 25.400 |
| RTW626 | 3.500 | 88.900 | 5.468 | 138.875 | 1.313 | 33.338 |
| RCT27B | 3.500 | 88.900 | 6.156 | 156.362 | 1.625 | 41.275 |
| RWCT27B | 3.500 | 88.900 | 6.375 | 161.925 | 1.625 | 41.275 |
| RCT28A | 3.500 | 88.900 | 6.750 | 171.450 | 1.625 | 41.275 |
| 2918 | 3.543 | 90.000 | 4.724 | 120.000 | 0.866 | 22.000 |
| 51118 | 3.543 | 90.000 | 4.724 | 120.000 | 0.866 | 22.000 |
| 811 18 TN | 3.543 | 90.000 | 4.724 | 120.000 | 0.866 | 22.000 |
| DL90 | 3.543 | 90.000 | 5.276 | 134.000 | 1.496 | 38.000 |
| 918 | 3.543 | 90.000 | 5.315 | 135.000 | 1.201 | 30.500 |
| 51218 | 3.543 | 90.000 | 5.315 | 135.000 | 1.378 | 35.000 |
| 812 18 TN | 3.543 | 90.000 | 5.315 | 135.000 | 1.378 | 35.000 |
| 4118 | 3.543 | 90.000 | 5.315 | 135.000 | 1.496 | 38.000 |
| 893 18 | 3.543 | 90.000 | 6.102 | 155.000 | 1.535 | 39.000 |
| 518 | 3.543 | 90.000 | 7.480 | 190.000 | 3.937 | 100.000 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



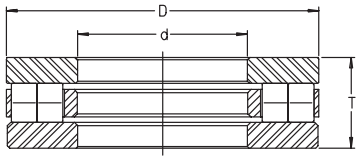

GT SHOWN FOR DIMENSIONAL REFERENCE

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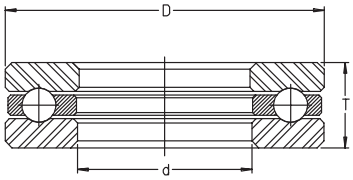
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| RCT30B | 3.563 | 90.488 | 6.375 | 161.925 | 1.375 | 34.925 |
| XW3-5/8 | 3.625 | 92.075 | 4.750 | 120.650 | 0.750 | 19.050 |
| W3-5/8 | 3.625 | 92.075 | 5.188 | 131.780 | 1.250 | 31.750 |
| 4443 | 3.625 | 92.075 | 5.625 | 142.880 | 1.375 | 34.930 |
| 2919 | 3.740 | 95.000 | 5.118 | 130.000 | 0.984 | 25.000 |
| 919 | 3.740 | 95.000 | 5.512 | 140.000 | 1.280 | 32.500 |
| DL95 | 3.740 | 95.000 | 5.512 | 140.000 | 1.496 | 38.000 |
| 4119 | 3.740 | 95.000 | 5.512 | 140.000 | 1.614 | 41.000 |
| XW3-3/4 | 3.750 | 95.250 | 4.875 | 123.820 | 0.750 | 19.050 |
| 2278 | 3.750 | 95.250 | 5.061 | 128.549 | 1.281 | 32.544 |
| W3-3/4 | 3.750 | 95.250 | 5.313 | 134.950 | 1.250 | 31.750 |
| 4444 | 3.750 | 95.250 | 5.750 | 146.050 | 1.375 | 34.930 |
| RCT34A | 3.750 | 95.250 | 7.125 | 180.975 | 1.875 | 47.625 |
| 38YT387C | 3.870 | 98.298 | 5.010 | 127.254 | 0.688 | 17.463 |
| XW3-7/8 | 3.875 | 98.425 | 5.000 | 127.000 | 0.750 | 19.050 |
| W3-7/8 | 3.875 | 98.425 | 5.688 | 144.480 | 1.375 | 34.930 |
| 4445 | 3.875 | 98.425 | 5.875 | 149.230 | 1.375 | 34.930 |
| 2920 | 3.937 | 100.000 | 5.315 | 135.000 | 0.984 | 25.000 |
| 51120 | 3.937 | 100.000 | 5.315 | 135.000 | 0.984 | 25.000 |
| 811 20 TN | 3.937 | 100.000 | 5.315 | 135.000 | 0.984 | 25.000 |
| 51220 | 3.937 | 100.000 | 5.906 | 150.000 | 1.496 | 38.000 |
| 812 20 TN | 3.937 | 100.000 | 5.906 | 150.000 | 1.496 | 38.000 |
| 4120 | 3.937 | 100.000 | 5.906 | 150.000 | 1.614 | 41.000 |
| 920 | 3.937 | 100.000 | 5.906 | 150.000 | 2.067 | 52.500 |
| DL100 | 3.937 | 100.000 | 6.063 | 154.000 | 1.634 | 41.500 |
| 893 20 TN | 3.937 | 100.000 | 6.693 | 170.000 | 1.654 | 42.000 |
| 520 | 3.937 | 100.000 | 8.465 | 215.000 | 4.331 | 110.000 |
| 40X12 | 3.999 | 101.575 | 5.880 | 149.352 | 1.485 | 37.72 |
| 40YM04 | 3.999 | 101.575 | 6.014 | 152.756 | 1.475 | 37.465 |
| XW4 | 4.000 | 101.600 | 5.250 | 133.350 | 0.875 | 22.225 |
| W4 | 4.000 | 101.600 | 5.813 | 147.650 | 1.375 | 34.930 |
| 4446 | 4.000 | 101.600 | 6.000 | 152.400 | 1.375 | 34.925 |
| RT734 | 4.000 | 101.600 | 7.000 | 177.800 | 1.750 | 44.450 |
| RT735 | 4.000 | 101.600 | 8.000 | 203.200 | 1.750 | 44.450 |
| 4447 | 4.125 | 104.775 | 6.134 | 155.800 | 1.375 | 34.930 |
| 2921 | 4.134 | 105.000 | 5.512 | 140.000 | 0.984 | 25.000 |
| 41X04 | 4.134 | 105 | 6.102 | 155 | 1.575 | 40 |
| 921 | 4.134 | 105.000 | 6.102 | 155.000 | 1.575 | 40.000 |
| 4121 | 4.134 | 105.000 | 6.102 | 155.000 | 1.811 | 46.000 |
| XW4-1/4 | 4.250 | 107.950 | 5.500 | 139.700 | 0.875 | 22.225 |
| 4448 | 4.250 | 107.950 | 6.250 | 158.750 | 1.375 | 34.930 |
| W4-1/4 | 4.250 | 107.950 | 6.313 | 160.350 | 1.750 | 44.450 |
| RCT35A | 4.250 | 107.950 | 8.171 | 207.543 | 2.000 | 50.800 |
| 2922 | 4.331 | 110.000 | 5.709 | 145.000 | 0.984 | 25.000 |
| 51122 | 4.331 | 110.000 | 5.709 | 145.000 | 0.984 | 25.000 |
| 811 22 TN | 4.331 | 110.000 | 5.709 | 145.000 | 0.984 | 25.000 |
| 51222 | 4.331 | 110.000 | 6.299 | 160.000 | 1.496 | 38.000 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



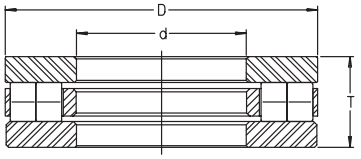

GT SHOWN FOR DIMENSIONAL REFERENCE

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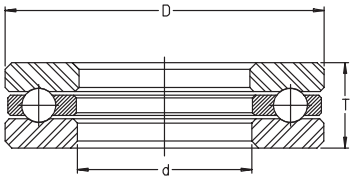
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 812 22 TN | 4.331 | 110.000 | 6.299 | 160.000 | 1.496 | 38.000 |
| 922 | 4.331 | 110.000 | 6.299 | 160.000 | 1.575 | 40.000 |
| 4122 | 4.331 | 110.000 | 6.299 | 160.000 | 1.811 | 46.000 |
| 893 22 | 4.331 | 110.000 | 7.480 | 190.000 | 1.890 | 48.000 |
| 894 22 | 4.331 | 110.000 | 9.055 | 230.000 | 2.874 | 73.000 |
| 4449 | 4.375 | 111.125 | 6.375 | 161.920 | 1.375 | 34.930 |
| XW4-1/2 | 4.500 | 114.300 | 5.750 | 146.050 | 1.000 | 25.400 |
| W4-1/2 | 4.500 | 114.300 | 6.500 | 165.100 | 1.750 | 44.450 |
| 4450 | 4.500 | 114.300 | 6.750 | 171.450 | 1.625 | 41.280 |
| RCT38A | 4.500 | 114.300 | 8.125 | 206.375 | 2.000 | 50.800 |
| RWCT38A | 4.500 | 114.300 | 8.312 | 211.125 | 2.000 | 50.800 |
| 2923 | 4.528 | 115.000 | 5.906 | 150.000 | 0.984 | 25.000 |
| 923 | 4.528 | 115.000 | 6.496 | 165.000 | 1.693 | 43.000 |
| 4123 | 4.528 | 115.000 | 6.496 | 165.000 | 1.929 | 49.000 |
| 523 | 4.528 | 115.000 | 9.449 | 240.000 | 4.724 | 120.000 |
| 2284 | 4.625 | 117.475 | 5.997 | 152.320 | 1.500 | 38.100 |
| 4451 | 4.625 | 117.475 | 6.875 | 174.630 | 1.625 | 41.280 |
| 51124 | 4.724 | 120.000 | 6.102 | 155.000 | 0.984 | 25.000 |
| 811 24 TN | 4.724 | 120.000 | 6.102 | 155.000 | 0.984 | 25.000 |
| 2924 | 4.724 | 120.000 | 6.299 | 160.000 | 1.063 | 27.000 |
| 51224 | 4.724 | 120.000 | 6.693 | 170.000 | 1.535 | 39.000 |
| 812 24 TN | 4.724 | 120.000 | 6.693 | 170.000 | 1.535 | 39.000 |
| 924 | 4.724 | 120.000 | 6.693 | 170.000 | 1.693 | 43.000 |
| 5124 | 4.724 | 120.000 | 6.693 | 170.000 | 1.929 | 49.000 |
| 893 24 | 4.724 | 120.000 | 8.268 | 210.000 | 2.126 | 54.000 |
| XW4-3/4 | 4.750 | 120.650 | 6.000 | 152.400 | 1.000 | 25.400 |
| 4452 | 4.750 | 120.650 | 7.000 | 177.800 | 1.625 | 41.280 |
| W4-3/4 | 4.750 | 120.650 | 7.063 | 179.400 | 2.000 | 50.800 |
| 4453 | 4.875 | 123.825 | 7.125 | 180.980 | 1.625 | 41.280 |
| 2925 | 4.921 | 125.000 | 6.496 | 165.000 | 1.063 | 27.000 |
| 925 | 4.921 | 125.000 | 6.890 | 175.000 | 1.831 | 46.500 |
| 4125 | 4.921 | 125.000 | 6.890 | 175.000 | 2.087 | 53.000 |
| 525 | 4.921 | 125.000 | 10.630 | 270.000 | 5.118 | 130.000 |
| 49X13 | 4.933 | 125.298 | 6.892 | 175.057 | 1.836 | 46.63 |
| XW5 | 5.000 | 127.000 | 6.500 | 165.100 | 1.018 | 25.850 |
| 4454 | 5.000 | 127.000 | 7.250 | 184.150 | 1.625 | 41.280 |
| W5 | 5.000 | 127.000 | 7.313 | 185.750 | 2.000 | 50.800 |
| RCT39A | 5.000 | 127.000 | 9.156 | 232.562 | 2.250 | 57.150 |
| RT740 | 5.000 | 127.000 | 10.000 | 254.000 | 2.000 | 50.800 |
| 51126 | 5.118 | 130.000 | 6.693 | 170.000 | 1.181 | 30.000 |
| 811 26 TN | 5.118 | 130.000 | 6.693 | 170.000 | 1.181 | 30.000 |
| 926 | 5.118 | 130.000 | 7.087 | 180.000 | 1.831 | 46.500 |
| 4126 | 5.118 | 130.000 | 7.087 | 180.000 | 2.087 | 53.000 |
| 51226 | 5.118 | 130.000 | 7.480 | 190.000 | 1.772 | 45.000 |
| 812 26 | 5.118 | 130.000 | 7.480 | 190.000 | 1.772 | 45.000 |
| 893 26 | 5.118 | 130.000 | 8.858 | 225.000 | 2.283 | 58.000 |
| 4455 | 5.125 | 130.175 | 7.375 | 187.325 | 1.625 | 41.275 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



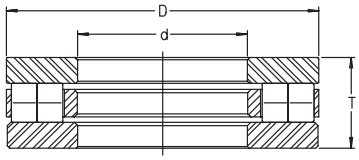

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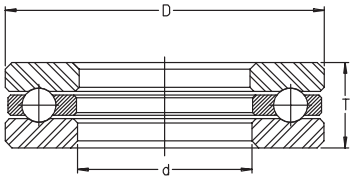
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| XW5-1/4 | 5.250 | 133.350 | 6.750 | 171.450 | 1.125 | 28.580 |
| 4456 | 5.250 | 133.350 | 7.500 | 190.500 | 1.625 | 41.280 |
| 52X12 | 5.251 | 133.375 | 7.135 | 181.23 | 1.485 | 37.72 |
| 52YM04Z | 5.251 | 133.375 | 7.269 | 184.63 | 1.470 | 37.34 |
| 4457 | 5.375 | 136.525 | 7.625 | 193.675 | 1.630 | 41.400 |
| XW5-1/2 | 5.500 | 139.700 | 7.000 | 177.800 | 1.007 | 25.580 |
| W5-1/2 | 5.500 | 139.700 | 8.063 | 204.800 | 2.193 | 55.700 |
| 4458 | 5.500 | 139.700 | 8.250 | 209.550 | 1.875 | 47.630 |
| RCT44A | 5.500 | 139.700 | 10.100 | 256.540 | 0.000 | 0.000 |
| 51128 | 5.512 | 140.000 | 7.087 | 180.000 | 1.221 | 31.000 |
| 811 28 TN | 5.512 | 140.000 | 7.087 | 180.000 | 1.220 | 31.000 |
| 2928 | 5.512 | 140.000 | 7.284 | 185.000 | 1.221 | 31.000 |
| 51228 | 5.512 | 140.000 | 7.874 | 200.000 | 1.811 | 46.000 |
| 812 28 | 5.512 | 140.000 | 7.874 | 200.000 | 1.811 | 46.000 |
| 928 | 5.512 | 140.000 | 7.874 | 200.000 | 2.047 | 52.000 |
| 4128 | 5.512 | 140.000 | 7.874 | 200.000 | 2.362 | 60.000 |
| 893 28 | 5.512 | 140.000 | 9.449 | 240.000 | 2.362 | 60.000 |
| 528 | 5.512 | 140.000 | 11.811 | 300.000 | 5.512 | 140.000 |
| RCT45B | 5.563 | 141.288 | 11.500 | 292.100 | 2.000 | 50.800 |
| 56RT02 | 5.625 | 142.875 | 8.270 | 210.058 | 1.750 | 44.45 |
| 4459 | 5.625 | 142.875 | 8.375 | 212.730 | 1.875 | 47.630 |
| XW5-3/4 | 5.750 | 146.050 | 7.250 | 184.150 | 1.125 | 28.580 |
| 4460 | 5.750 | 146.050 | 8.500 | 215.900 | 1.875 | 47.630 |
| 4461 | 5.875 | 149.225 | 8.625 | 219.080 | 1.875 | 47.630 |
| 51130 | 5.906 | 150.000 | 7.480 | 190.000 | 1.221 | 31.000 |
| 811 30 TN | 5.906 | 150.000 | 7.480 | 190.000 | 1.220 | 31.000 |
| 51230 | 5.906 | 150.000 | 8.465 | 215.000 | 1.969 | 50.000 |
| 812 30 | 5.906 | 150.000 | 8.465 | 215.000 | 1.969 | 50.000 |
| 930 | 5.906 | 150.000 | 8.661 | 220.000 | 2.165 | 55.000 |
| 4130 | 5.906 | 150.000 | 8.661 | 220.000 | 2.362 | 60.000 |
| 893 30 | 5.906 | 150.000 | 9.843 | 250.000 | 2.362 | 60.000 |
| XW6 | 6.000 | 152.400 | 7.625 | 193.680 | 1.250 | 31.750 |
| W6 | 6.000 | 152.400 | 8.688 | 220.663 | 2.375 | 60.325 |
| 4462 | 6.000 | 152.400 | 8.750 | 222.250 | 1.875 | 47.625 |
| RCT45A | 6.000 | 152.400 | 11.156 | 283.362 | 3.000 | 76.200 |
| 4463 | 6.125 | 155.575 | 8.875 | 225.420 | 1.875 | 47.630 |
| 4464 | 6.250 | 158.750 | 9.000 | 228.600 | 1.875 | 47.630 |
| 51132 | 6.299 | 160.000 | 7.874 | 200.000 | 1.221 | 31.000 |
| 811 32 | 6.299 | 160.000 | 7.874 | 200.000 | 1.220 | 31.000 |
| 51232 | 6.299 | 160.000 | 8.858 | 225.000 | 2.008 | 51.000 |
| 812 32 | 6.299 | 160.000 | 8.858 | 225.000 | 2.008 | 51.000 |
| 932 | 6.299 | 160.000 | 9.252 | 235.000 | 2.362 | 60.000 |
| 4132 | 6.299 | 160.000 | 9.252 | 235.000 | 2.559 | 65.000 |
| 893 32 | 6.299 | 160.000 | 10.630 | 270.000 | 2.638 | 67.000 |
| 4465 | 6.375 | 161.925 | 9.125 | 231.770 | 1.875 | 47.630 |
| XW6-1/2 | 6.500 | 165.100 | 8.125 | 206.380 | 1.250 | 31.750 |
| W6-1/2 | 6.500 | 165.100 | 9.406 | 238.910 | 2.500 | 63.500 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



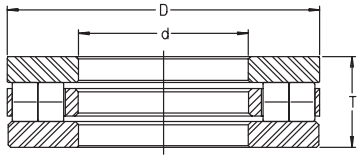

GT SHOWN FOR DIMENSIONAL REFERENCE

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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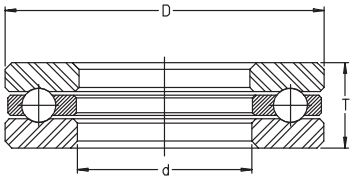
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 4466 | 6.500 | 165.100 | 9.500 | 241.300 | 2.250 | 57.150 |
| 65X14 | 6.504 | 165.202 | 8.125 | 206.375 | 1.255 | 31.877 |
| 65X12 | 6.570 | 166.878 | 7.570 | 192.278 | 0.688 | 17.47 |
| 4467 | 6.625 | 168.275 | 9.625 | 244.480 | 2.250 | 57.150 |
| 51134 | 6.693 | 170.000 | 8.465 | 215.000 | 1.339 | 34.000 |
| 811 34 | 6.693 | 170.000 | 8.465 | 215.000 | 1.339 | 34.000 |
| 51234 | 6.693 | 170.000 | 9.449 | 240.000 | 2.165 | 55.000 |
| 812 34 | 6.693 | 170.000 | 9.449 | 240.000 | 2.165 | 55.000 |
| 934 | 6.693 | 170.000 | 9.843 | 250.000 | 2.559 | 65.000 |
| 4134 | 6.693 | 170.000 | 9.843 | 250.000 | 2.756 | 70.000 |
| 893 34 | 6.693 | 170.000 | 11.024 | 280.000 | 2.638 | 67.000 |
| 4468 | 6.750 | 171.450 | 9.750 | 247.650 | 2.250 | 57.150 |
| 67X02 | 6.769 | 171.93 | 8.465 | 215.011 | 1.339 | 34.01 |
| RCT49A | 6.813 | 173.038 | 12.750 | 323.850 | 2.500 | 63.500 |
| FC67080 | 6.970 | 177.038 | 8.125 | 206.376 | 1.510 | 38.35 |
| XW7 | 7.000 | 177.800 | 8.750 | 222.250 | 1.375 | 34.930 |
| W7 | 7.000 | 177.800 | 10.125 | 257.180 | 2.625 | 66.680 |
| 70X14 | 7.020 | 178.308 | 9.002 | 228.65 | 1.005 | 25.527 |
| 70X01 | 7.021 | 178.333 | 9.000 | 228.6 | 0.963 | 24.46 |
| 51136 | 7.087 | 180.000 | 8.858 | 225.000 | 1.339 | 34.000 |
| 811 36 | 7.087 | 180.000 | 8.858 | 225.000 | 1.339 | 34.000 |
| 51236 | 7.087 | 180.000 | 9.843 | 250.000 | 2.205 | 56.000 |
| 812 36 | 7.087 | 180.000 | 9.843 | 250.000 | 2.205 | 56.000 |
| 936 | 7.087 | 180.000 | 10.236 | 260.000 | 2.559 | 65.000 |
| 4136 | 7.087 | 180.000 | 10.236 | 260.000 | 2.756 | 70.000 |
| 893 36 | 7.087 | 180.000 | 11.811 | 300.000 | 2.874 | 73.000 |
| 51138 | 7.480 | 190.000 | 9.449 | 240.000 | 1.457 | 37.000 |
| 811 38 | 7.480 | 190.000 | 9.449 | 240.000 | 1.457 | 37.000 |
| 51238 | 7.480 | 190.000 | 10.630 | 270.000 | 2.441 | 62.000 |
| 812 38 | 7.480 | 190.000 | 10.630 | 270.000 | 2.441 | 62.000 |
| 938 | 7.480 | 190.000 | 10.827 | 275.000 | 2.756 | 70.000 |
| 4138 | 7.480 | 190.000 | 10.827 | 275.000 | 3.150 | 80.000 |
| 893 38 | 7.480 | 190.000 | 12.598 | 320.000 | 3.071 | 78.000 |
| XW7-1/2 | 7.500 | 190.500 | 9.250 | 234.950 | 1.375 | 34.930 |
| W7-1/2 | 7.500 | 190.500 | 10.875 | 276.220 | 2.750 | 69.850 |
| 78X03 | 7.873 | 199.969 | 11.417 | 290 | 2.761 | 70.13 |
| 51140 | 7.874 | 200.000 | 9.843 | 250.000 | 1.457 | 37.000 |
| 811 40 | 7.874 | 200.000 | 9.843 | 250.000 | 1.457 | 37.000 |
| 51240 | 7.874 | 200.000 | 11.024 | 280.000 | 2.441 | 62.000 |
| 812 40 | 7.874 | 200.000 | 11.024 | 280.000 | 2.441 | 62.000 |
| 940 | 7.874 | 200.000 | 11.417 | 290.000 | 2.756 | 70.000 |
| 4140 | 7.874 | 200.000 | 11.417 | 290.000 | 3.150 | 80.000 |
| 893 40 | 7.874 | 200.000 | 13.386 | 340.000 | 3.346 | 85.000 |
| 80X03 | 7.998 | 203.149 | 11.750 | 298.45 | 2.503 | 63.576 |
| XW8 | 8.000 | 203.200 | 10.000 | 254.000 | 1.500 | 38.100 |
| W8 | 8.000 | 203.200 | 11.625 | 295.280 | 3.000 | 76.200 |
| RCT52 | 8.438 | 214.313 | 14.500 | 368.300 | 3.000 | 76.200 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



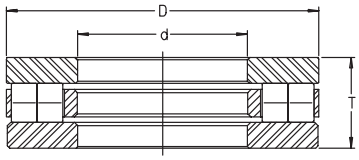

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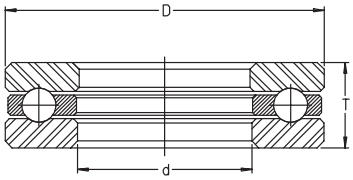
| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| XW8-1/2 | 8.500 | 215.900 | 10.500 | 266.700 | 1.500 | 38.100 |
| 85X04 | 8.530 | 216.662 | 10.500 | 266.7 | 1.000 | 25.4 |
| 51144 | 8.661 | 220.000 | 10.630 | 270.000 | 1.457 | 37.000 |
| 811 44 | 8.661 | 220.000 | 10.630 | 270.000 | 1.457 | 37.000 |
| 51244 | 8.661 | 220.000 | 11.811 | 300.000 | 2.480 | 63.000 |
| 812 44 | 8.661 | 220.000 | 11.811 | 300.000 | 2.480 | 63.000 |
| 944 | 8.661 | 220.000 | 12.402 | 315.000 | 3.150 | 80.000 |
| XW9 | 9.000 | 228.600 | 11.250 | 285.750 | 1.875 | 47.625 |
| W9 | 9.000 | 228.600 | 13.125 | 333.380 | 3.500 | 88.900 |
| RCT54 | 9.313 | 236.538 | 16.500 | 419.100 | 3.000 | 76.200 |
| 51148 | 9.449 | 240.000 | 11.811 | 300.000 | 1.772 | 45.000 |
| 811 48 | 9.449 | 240.000 | 11.811 | 300.000 | 1.772 | 45.000 |
| 51248 | 9.449 | 240.000 | 13.386 | 340.000 | 3.071 | 78.000 |
| 812 48 | 9.449 | 240.000 | 13.386 | 340.000 | 3.071 | 78.000 |
| 948 | 9.449 | 240.000 | 13.583 | 345.000 | 3.347 | 85.000 |
| XW9-1/2 | 9.500 | 241.300 | 11.750 | 298.450 | 1.875 | 47.625 |
| XW10 | 10.000 | 254.000 | 12.500 | 317.500 | 2.125 | 53.975 |
| W10 | 10.000 | 254.000 | 14.625 | 371.475 | 4.000 | 101.600 |
| RT756 | 10.000 | 254.000 | 20.000 | 508.000 | 3.750 | 95.250 |
| 51152 | 10.236 | 260.000 | 12.598 | 320.000 | 1.772 | 45.000 |
| 811 52 | 10.236 | 260.000 | 12.598 | 320.000 | 1.772 | 45.000 |
| 51252 | 10.236 | 260.000 | 14.173 | 360.000 | 3.110 | 79.000 |
| 812 52 | 10.236 | 260.000 | 14.173 | 360.000 | 3.110 | 79.000 |
| 952 | 10.236 | 260.000 | 14.764 | 375.000 | 3.543 | 90.000 |
| XW10-1/2 | 10.500 | 266.700 | 13.000 | 330.200 | 2.125 | 53.975 |
| XW11 | 11.000 | 279.400 | 13.750 | 349.250 | 2.375 | 60.320 |
| W11 | 11.000 | 279.400 | 15.875 | 403.220 | 4.250 | 107.950 |
| 51156 | 11.024 | 280.000 | 13.780 | 350.000 | 2.087 | 53.000 |
| 811 56 | 11.024 | 280.000 | 13.780 | 350.000 | 2.087 | 53.000 |
| 51256 | 11.024 | 280.000 | 14.961 | 380.000 | 3.150 | 80.000 |
| 812 56 | 11.024 | 280.000 | 14.961 | 380.000 | 3.150 | 80.000 |
| 956 | 11.024 | 280.000 | 15.748 | 400.000 | 3.740 | 95.000 |
| XW11-1/2 | 11.500 | 292.100 | 14.250 | 361.950 | 2.375 | 60.320 |
| 51160 | 11.811 | 300.000 | 14.961 | 380.000 | 2.441 | 62.000 |
| 811 60 | 11.811 | 300.000 | 14.961 | 380.000 | 2.441 | 62.000 |
| 51260 | 11.811 | 300.000 | 16.535 | 420.000 | 3.740 | 95.000 |
| 812 60 | 11.811 | 300.000 | 16.535 | 420.000 | 3.740 | 95.000 |
| 960 | 11.811 | 300.000 | 16.929 | 430.000 | 4.134 | 105.000 |
| XW12 | 12.000 | 304.800 | 15.000 | 381.000 | 2.500 | 63.500 |
| W12 | 12.000 | 304.800 | 17.375 | 441.330 | 4.500 | 114.300 |
| XW12-1/2 | 12.500 | 317.500 | 15.500 | 393.700 | 2.625 | 66.680 |
| 51164 | 12.598 | 320.000 | 15.748 | 400.000 | 2.480 | 63.000 |
| 811 64 | 12.598 | 320.000 | 15.748 | 400.000 | 2.480 | 63.000 |
| 51264 | 12.598 | 320.000 | 17.323 | 440.000 | 3.740 | 95.000 |
| 812 64 | 12.598 | 320.000 | 17.323 | 440.000 | 3.740 | 95.000 |
| XW13 | 13.000 | 330.200 | 16.250 | 412.750 | 2.750 | 69.850 |
| 51168 | 13.386 | 340.000 | 16.535 | 420.000 | 2.520 | 64.000 |

# Thrust Bearing Selector
## PART NUMBER AND SIZE

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Series specific details can be found on subsequent pages. Please refer to Section Contents or Index for the correct page numbers.




RT7 SHOWN FOR DIMENSIONAL REFERENCE



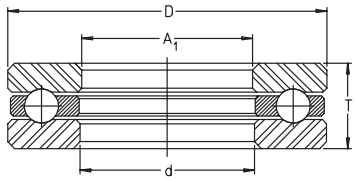

GT SHOWN FOR DIMENSIONAL REFERENCE

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| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm |
|---|---|---|---|---|---|---|
| 811 68 | 13.386 | 340.000 | 16.535 | 420.000 | 2.520 | 64.000 |
| 51268 | 13.386 | 340.000 | 18.110 | 460.000 | 3.780 | 96.000 |
| 812 68 | 13.386 | 340.000 | 18.110 | 460.000 | 3.780 | 96.000 |
| 140Z01 | 13.484 | 342.5 | 18.250 | 463.55 | 4.260 | 108.2 |
| XW13-1/2 | 13.500 | 342.900 | 16.750 | 425.450 | 2.875 | 73.020 |
| XW14 | 14.000 | 355.600 | 17.500 | 444.500 | 3.000 | 76.200 |
| 51172 | 14.173 | 360.000 | 17.323 | 440.000 | 2.559 | 65.000 |
| 811 72 | 14.173 | 360.000 | 17.323 | 440.000 | 2.559 | 65.000 |
| 51272 | 14.173 | 360.000 | 19.685 | 500.000 | 4.331 | 110.000 |
| 812 72 | 14.173 | 360.000 | 19.685 | 500.000 | 4.331 | 110.000 |
| XW14-1/2 | 14.500 | 368.300 | 18.000 | 457.200 | 3.125 | 79.380 |
| 811 76 | 14.961 | 380.000 | 18.110 | 460.000 | 2.559 | 65.000 |
| 812 76 | 14.961 | 380.000 | 20.472 | 520.000 | 4.409 | 112.000 |
| XW15 | 15.000 | 381.000 | 18.750 | 476.250 | 3.250 | 82.550 |
| XW15-1/2 | 15.500 | 393.700 | 19.250 | 488.950 | 3.375 | 85.730 |
| 811 80 | 15.748 | 400.000 | 18.898 | 480.000 | 2.559 | 65.000 |
| 812 80 | 15.748 | 400.000 | 21.260 | 540.000 | 4.409 | 112.000 |
| XW16 | 16.000 | 406.400 | 20.000 | 508.000 | 3.500 | 88.900 |
| XW16-1/2 | 16.500 | 419.100 | 20.500 | 520.700 | 3.625 | 92.070 |
| 811 84 | 16.535 | 420.000 | 19.685 | 500.000 | 2.559 | 65.000 |
| 812 84 | 16.535 | 420.000 | 22.835 | 580.000 | 5.118 | 130.000 |
| XW17 | 17.000 | 431.800 | 21.250 | 539.750 | 3.750 | 95.250 |
| 811 88 | 17.323 | 440.000 | 21.260 | 540.000 | 3.150 | 80.000 |
| 812 88 | 17.323 | 440.000 | 23.622 | 600.000 | 5.118 | 130.000 |
| XW17-1/2 | 17.500 | 444.500 | 21.750 | 552.450 | 3.875 | 98.430 |
| XW18 | 18.000 | 457.200 | 22.500 | 571.500 | 4.000 | 101.600 |
| 811 92 | 18.110 | 460.000 | 22.047 | 560.000 | 3.150 | 80.000 |
| 812 92 | 18.110 | 460.000 | 24.409 | 620.000 | 5.118 | 130.000 |
| XW18-1/2 | 18.500 | 469.900 | 23.000 | 584.200 | 4.125 | 104.770 |
| 811 96 | 18.898 | 480.000 | 22.835 | 580.000 | 3.150 | 80.000 |
| 812 96 | 18.898 | 480.000 | 25.591 | 650.000 | 5.315 | 135.000 |
| XW19 | 19.000 | 482.600 | 23.750 | 603.250 | 4.250 | 107.950 |
| 195X02 | 19.500 | 495.3 | 23.000 | 584.2 | 2.000 | 50.8 |
| 195X03 | 19.500 | 495.3 | 23.000 | 584.2 | 2.250 | 57.15 |
| XW19-1/2 | 19.500 | 495.300 | 24.250 | 615.950 | 4.375 | 111.130 |
| 811/500 | 19.685 | 500.000 | 23.622 | 600.000 | 3.150 | 80.000 |
| 812/500 | 19.685 | 500.000 | 26.378 | 670.000 | 5.315 | 135.000 |
| XW20 | 20.000 | 508.000 | 24.750 | 628.650 | 4.500 | 114.300 |
| 811/530 | 20.866 | 530.000 | 25.197 | 640.000 | 3.346 | 85.000 |
| 812/530 | 20.866 | 530.000 | 27.953 | 710.000 | 5.512 | 140.000 |
| 811/560 | 22.047 | 560.000 | 26.378 | 670.000 | 3.346 | 85.000 |
| 812/560 | 22.047 | 560.000 | 29.528 | 750.000 | 5.906 | 150.000 |
| 811/600 | 23.622 | 600.000 | 27.953 | 710.000 | 3.346 | 85.000 |
| 812/600 | 23.622 | 600.000 | 31.496 | 800.000 | 6.299 | 160.000 |

# Ball Thrust Bearings
## 2000 SERIES

- Light/medium cross section
- Grooved race
- Single direction
- Separable axial contact
- Speed limit shown is for oil lubrication



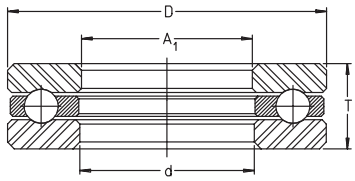

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2004 | 0.250 | 6.350 | 0.625 | 15.875 | 0.438 | 11.113 | 0.026 | 0.012 | 940 | 4200 | 1110 | 4950 | 18000 |
| **2044** | 0.313 | 7.938 | 0.675 | 17.145 | 0.281 | 7.144 | 0.018 | 0.008 | 980 | 4350 | 1240 | 5500 | 16000 |
| 2003 | 0.438 | 11.113 | 0.750 | 19.050 | 0.250 | 6.350 | 0.015 | 0.007 | 1070 | 4750 | 1530 | 6800 | 14000 |
| 2063 | 0.438 | 11.113 | 0.937 | 23.800 | 0.500 | 12.700 | 0.064 | 0.029 | 1510 | 6700 | 2160 | 9600 | 11000 |
| 2085 | 0.438 | 11.113 | 0.875 | 22.225 | 0.250 | 6.350 | 0.022 | 0.010 | 980 | 4350 | 1390 | 6200 | 13000 |
| 2002 | 0.500 | 12.700 | 0.750 | 19.050 | 0.438 | 11.113 | 0.026 | 0.012 | 540 | 2380 | 780 | 3450 | 13000 |
| 2097 | 0.500 | 12.700 | 0.875 | 22.225 | 0.563 | 14.288 | 0.057 | 0.026 | 1070 | 4750 | 1660 | 7400 | 11000 |
| 2458 | 0.500 | 12.700 | 1.062 | 26.975 | 0.312 | 7.925 | 0.042 | 0.019 | 1460 | 6500 | 2160 | 9600 | 10000 |
| 2006 | 0.625 | 15.875 | 1.000 | 25.400 | 0.500 | 12.700 | 0.057 | 0.026 | 1010 | 4500 | 1660 | 7400 | 9500 |
| **2043** | 0.625 | 15.875 | 1.250 | 31.750 | 0.563 | 14.288 | 0.115 | 0.052 | 2410 | 10700 | 3390 | 15100 | 8500 |
| **2132** | 0.625 | 15.875 | 1.125 | 28.575 | 0.563 | 14.288 | 0.090 | 0.041 | 2070 | 9200 | 3130 | 13900 | 9000 |
| 2005 | 0.750 | 19.050 | 1.250 | 31.750 | 0.563 | 14.288 | 0.104 | 0.047 | 2250 | 10000 | 3730 | 16600 | 8000 |
| 2009 | 0.750 | 19.050 | 1.250 | 31.750 | 0.438 | 11.113 | 0.077 | 0.035 | 2250 | 10000 | 3730 | 16600 | 8000 |
| 2007 | 0.813 | 20.638 | 1.250 | 31.750 | 0.500 | 12.700 | 0.084 | 0.038 | 1750 | 7800 | 3240 | 14400 | 7500 |
| 2011 | 0.875 | 22.225 | 1.375 | 34.925 | 0.563 | 14.288 | 0.117 | 0.053 | 2290 | 10200 | 4050 | 18000 | 7000 |
| 2001 | 0.938 | 23.813 | 1.500 | 38.100 | 0.500 | 12.700 | 0.119 | 0.054 | 2230 | 9900 | 4050 | 18000 | 6500 |
| 2008 | 1.000 | 25.400 | 1.500 | 38.100 | 0.625 | 15.875 | 0.146 | 0.066 | 2230 | 9900 | 4050 | 18000 | 6500 |
| 2010 | 1.000 | 25.400 | 1.750 | 44.450 | 0.563 | 14.288 | 0.196 | 0.089 | 3730 | 16600 | 6600 | 29500 | 5500 |
| 2087 | 1.000 | 25.400 | 1.625 | 41.275 | 0.563 | 14.288 | 0.165 | 0.075 | 4200 | 18700 | 7800 | 34500 | 6000 |
| 2209 | 1.063 | 26.988 | 1.687 | 42.850 | 0.625 | 15.875 | 0.203 | 0.092 | 4700 | 20900 | 9400 | 42000 | 5500 |
| 2024 | 1.125 | 28.575 | 1.875 | 47.625 | 0.563 | 14.288 | 0.227 | 0.103 | 2680 | 11900 | 6000 | 26500 | 5000 |
| 2283 | 1.188 | 30.163 | 1.938 | 49.212 | 0.531 | 13.494 | 0.207 | 0.094 | 3910 | 17400 | 7800 | 34500 | 4800 |
| **2096** | 1.250 | 31.750 | 2.000 | 50.800 | 0.813 | 20.638 | 0.368 | 0.167 | 3910 | 17400 | 7800 | 34500 | 4800 |
| **2092** | 1.438 | 36.513 | 3.250 | 82.550 | 1.313 | 33.338 | 1.910 | 0.867 | 19300 | 86000 | 34600 | 154000 | 3400 |
| 2282 | 1.625 | 41.275 | 2.381 | 60.477 | 0.656 | 16.662 | 0.350 | 0.157 | 4000 | 17800 | 8900 | 39500 | 3900 |
| 2041 | 1.688 | 42.863 | 2.375 | 60.325 | 0.563 | 14.288 | 0.260 | 0.120 | 4000 | 17800 | 8900 | 39500 | 3800 |
| **2023** | 2.000 | 50.800 | 3.500 | 88.900 | 1.625 | 41.275 | 2.590 | 1.175 | 22900 | 102000 | 48600 | 216000 | 2800 |
| 2280 | 2.000 | 50.800 | 3.250 | 82.550 | 0.813 | 20.638 | 0.900 | 0.406 | 9200 | 41000 | 22500 | 100000 | 2800 |
| 2281 | 2.500 | 63.500 | 3.688 | 93.662 | 0.938 | 23.813 | 1.190 | 0.541 | 12400 | 55000 | 30600 | 136000 | 2600 |
| 2279 | 3.250 | 82.550 | 4.499 | 114.262 | 1.125 | 28.575 | 1.940 | 0.881 | 16600 | 74000 | 44300 | 197000 | 2000 |
| 2278 | 3.750 | 95.250 | 5.061 | 128.549 | 1.281 | 32.544 | 2.710 | 1.227 | 17800 | 79000 | 51000 | 227000 | 1800 |
| 2284 | 4.625 | 117.475 | 5.997 | 152.320 | 1.500 | 38.100 | 4.060 | 1.840 | 22000 | 98000 | 67400 | 300000 | 1500 |

# Ball Thrust Bearings
## 2900 SERIES

- Light cross section
- Grooved race
- Single race
- Separable axial contact
- Speed limit shown is for oil lubrication

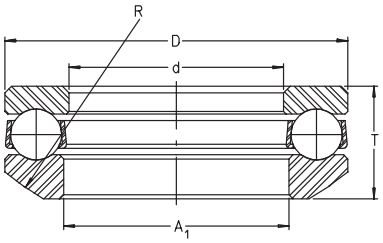



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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm | BORE $A_1$ inch | BORE $A_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2900 | 0.394 | 10 | 1.024 | 26 | 0.472 | 12 | 0.072 | 0.033 | 2630 | 11700 | 3395 | 15100 | 11000 | 0.402 | 10.211 |
| 2901 | 0.472 | 12 | 1.102 | 28 | 0.472 | 12 | 0.082 | 0.037 | 2110 | 9400 | 3125 | 13900 | 9500 | 0.480 | 12.192 |
| 2902 | 0.591 | 15 | 1.221 | 31 | 0.472 | 12 | 0.094 | 0.043 | 2320 | 10300 | 3730 | 16600 | 8500 | 0.598 | 15.189 |
| 2903 | 0.709 | 18 | 1.378 | 35 | 0.472 | 12 | 0.115 | 0.052 | 3350 | 14900 | 5960 | 26500 | 7500 | 0.717 | 18.212 |
| 2904 | 0.787 | 20 | 1.457 | 37 | 0.472 | 12 | 0.121 | 0.055 | 3350 | 14900 | 5960 | 26500 | 7500 | 0.795 | 20.193 |
| 2904-1/2 | 0.866 | 22 | 1.654 | 42 | 0.551 | 14 | 0.185 | 0.084 | 4900 | 21800 | 8430 | 37500 | 6000 | 0.874 | 22.200 |
| 2905 | 0.984 | 25 | 1.772 | 45 | 0.551 | 14 | 0.203 | 0.092 | 5010 | 22300 | 9100 | 40500 | 5500 | 0.992 | 25.197 |
| 2906 | 1.181 | 30 | 1.969 | 50 | 0.551 | 14 | 1.312 | 0.595 | 5100 | 22700 | 9800 | 43500 | 5000 | 1.189 | 30.201 |
| 2907 | 1.378 | 35 | 2.165 | 55 | 0.630 | 16 | 0.302 | 0.137 | 6200 | 27500 | 12100 | 54000 | 4400 | 1.386 | 35.204 |
| 2908 | 1.575 | 40 | 2.362 | 60 | 0.630 | 16 | 1.605 | 0.728 | 5960 | 26500 | 12100 | 54000 | 4000 | 1.583 | 40.208 |
| 2909 | 1.772 | 45 | 2.677 | 68 | 0.630 | 16 | 0.421 | 0.191 | 6500 | 29000 | 14600 | 65000 | 3600 | 1.780 | 45.212 |
| 2910 | 1.969 | 50 | 2.913 | 74 | 0.709 | 18 | 0.564 | 0.256 | 8300 | 37000 | 19800 | 88000 | 3200 | 1.976 | 50.190 |
| 2911 | 2.165 | 55 | 3.071 | 78 | 0.709 | 18 | 0.582 | 0.264 | 8400 | 37500 | 21000 | 93000 | 3000 | 2.173 | 55.194 |
| 2912 | 2.362 | 60 | 3.228 | 82 | 0.709 | 18 | 0.604 | 0.274 | 8800 | 39000 | 23000 | 102000 | 2800 | 2.370 | 60.198 |
| 2913 | 2.362 | 60 | 3.543 | 90 | 0.787 | 20 | 0.919 | 0.417 | 9700 | 43000 | 25000 | 111000 | 2600 | 2.567 | 65.202 |
| 2914 | 2.756 | 70 | 3.740 | 95 | 0.787 | 20 | 0.871 | 0.395 | 10200 | 45500 | 27000 | 122000 | 2400 | 2.764 | 70.206 |
| 2915 | 2.953 | 75 | 3.937 | 100 | 0.787 | 20 | 0.922 | 0.418 | 10300 | 46000 | 29000 | 127000 | 2300 | 2.961 | 75.209 |
| 2916 | 3.150 | 80 | 4.331 | 110 | 0.906 | 23 | 1.376 | 0.624 | 13500 | 60000 | 37000 | 166000 | 2100 | 3.157 | 80.188 |
| 2917 | 3.347 | 85 | 4.528 | 115 | 0.866 | 22 | 1.369 | 0.621 | 11900 | 53000 | 35000 | 156000 | 2000 | 3.354 | 85.192 |
| 2918 | 3.543 | 90 | 4.724 | 120 | 0.866 | 22 | 1.638 | 0.743 | 11900 | 53000 | 35000 | 156000 | 1900 | 3.551 | 90.195 |
| 2919 | 3.740 | 95 | 5.118 | 130 | 0.984 | 25 | 2.029 | 0.920 | 17800 | 79000 | 51000 | 227000 | 1800 | 3.748 | 95.199 |
| 2920 | 3.937 | 100 | 5.315 | 135 | 0.984 | 25 | 2.119 | 0.961 | 17800 | 79000 | 53000 | 237000 | 1700 | 3.945 | 100.203 |
| 2921 | 4.134 | 105 | 5.512 | 140 | 0.984 | 25 | 2.227 | 1.010 | 18200 | 81000 | 57000 | 255000 | 1600 | 4.142 | 105.207 |
| **2922** | 4.331 | 110 | 5.709 | 145 | 0.984 | 25 | 2.293 | 1.040 | 19100 | 85000 | 62000 | 275000 | 1600 | 4.339 | 110.211 |
| 2923 | 4.528 | 115 | 5.906 | 150 | 0.984 | 25 | 2.368 | 1.074 | 18200 | 81000 | 57000 | 255000 | 1500 | 4.535 | 115.189 |
| 2924 | 4.724 | 120 | 6.299 | 160 | 1.063 | 27 | 3.111 | 1.411 | 21000 | 95000 | 70000 | 310000 | 1400 | 4.732 | 120.193 |
| 2925 | 4.921 | 125 | 6.496 | 165 | 1.063 | 27 | 3.594 | 1.630 | 19800 | 88000 | 65000 | 290000 | 1400 | 4.929 | 125.197 |
| 2928 | 5.512 | 140 | 7.284 | 185 | 1.221 | 31 | 4.611 | 2.091 | 27000 | 121000 | 90000 | 400000 | 1200 | 5.520 | 140.208 |

# Ball Thrust Bearings
## 4100 SERIES




- Medium cross section
- Grooved race
- Single direction
- Separable axial contact
- Static alignment =± 3.0º
- Available in non aligning 900 series
- Speed limit shown is for oil lubrication

- Part numbers shown in bold may **not** be readily available, please call to check availability.

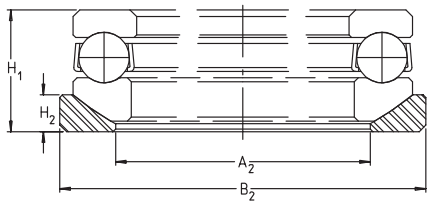
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm | SEAT RADIUS R mm | BORE $A_1$ inch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4100 | 0.394 | 10 | 0.984 | 25 | 0.556 | 14 | 0.079 | 0.036 | 2650 | 11800 | 3390 | 15100 | 11000 | 25 | 0.472 |
| 4102 | 0.591 | 15 | 1.378 | 35 | 0.591 | 15 | 0.154 | 0.070 | 4340 | 19300 | 6290 | 28000 | 8000 | 30 | 0.669 |
| 4104 | 0.787 | 20 | 1.575 | 40 | 0.630 | 16 | 0.201 | 0.091 | 4450 | 19800 | 6970 | 31000 | 6500 | 35 | 0.866 |
| 4105 | 0.984 | 25 | 1.890 | 48 | 0.669 | 17 | 0.293 | 0.133 | 5850 | 26000 | 10340 | 46000 | 5000 | 35 | 1.063 |
| 4106 | 1.181 | 30 | 2.087 | 53 | 0.709 | 18 | 0.331 | 0.150 | 5960 | 26500 | 11240 | 50000 | 4700 | 40 | 1.260 |
| 4107 | 1.378 | 35 | 2.441 | 62 | 0.827 | 21 | 0.562 | 0.255 | 7980 | 35500 | 15100 | 67000 | 4200 | 50 | 1.457 |
| 4108 | 1.575 | 40 | 2.520 | 64 | 0.827 | 21 | 0.490 | 0.222 | 8540 | 38000 | 17500 | 78000 | 3800 | 50 | 1.654 |
| 4109 | 1.772 | 45 | 2.874 | 73 | 0.984 | 25 | 0.900 | 0.408 | 10680 | 47500 | 23400 | 104000 | 3400 | 60 | 1.850 |
| 4110 | 1.969 | 50 | 3.071 | 78 | 0.984 | 25 | 0.849 | 0.385 | 12100 | 54000 | 27000 | 121000 | 3100 | 65 | 2.047 |
| 4111 | 2.165 | 55 | 3.465 | 88 | 1.102 | 28 | 1.422 | 0.645 | 15700 | 70000 | 36000 | 158000 | 2800 | 70 | 2.244 |
| 4112 | 2.362 | 60 | 3.543 | 90 | 1.102 | 28 | 1.200 | 0.544 | 12600 | 56000 | 31000 | 136000 | 2600 | 75 | 2.441 |
| 4113 | 2.559 | 65 | 3.937 | 100 | 1.260 | 32 | 1.985 | 0.900 | 14800 | 66000 | 36000 | 158000 | 2400 | 80 | 2.638 |
| 4114 | 2.756 | 70 | 4.055 | 103 | 1.260 | 32 | 1.799 | 0.816 | 16600 | 74000 | 42000 | 187000 | 2300 | 85 | 2.835 |
| 4115 | 2.953 | 75 | 4.331 | 110 | 1.260 | 32 | 2.262 | 1.026 | 16900 | 75000 | 44000 | 197000 | 2100 | 90 | 3.032 |
| 4116 | 3.150 | 80 | 4.528 | 115 | 1.378 | 35 | 2.300 | 1.043 | 20000 | 89000 | 51000 | 225000 | 2100 | 95 | 3.228 |
| 4117 | 3.347 | 85 | 4.921 | 125 | 1.496 | 38 | 3.493 | 1.584 | 24000 | 107000 | 62000 | 275000 | 1900 | 105 | 3.465 |
| 4118 | 3.543 | 90 | 5.315 | 135 | 1.496 | 38 | 3.601 | 1.633 | 27000 | 120000 | 67000 | 300000 | 1800 | 110 | 3.662 |
| 4119 | 3.740 | 95 | 5.512 | 140 | 1.614 | 41 | 4.736 | 2.148 | 30000 | 132000 | 80000 | 355000 | 1700 | 125 | 3.858 |
| 4120 | 3.937 | 100 | 5.906 | 150 | 1.614 | 41 | 4.900 | 2.222 | 31000 | 137000 | 80000 | 355000 | 1600 | 125 | 4.055 |
| 4121 | 4.134 | 105 | 6.102 | 155 | 1.811 | 46 | 6.476 | 2.937 | 38000 | 169000 | 99000 | 440000 | 1500 | 130 | 4.252 |
| **4122** | 4.331 | 110 | 6.299 | 160 | 1.811 | 46 | 6.800 | 3.084 | 39000 | 172000 | 106000 | 470000 | 1500 | 135 | 4.449 |
| 4123 | 4.528 | 115 | 6.496 | 165 | 1.929 | 49 | 7.512 | 3.407 | 39000 | 172000 | 106000 | 470000 | 1400 | 140 | 4.646 |
| **4124** | 4.724 | 120 | 6.693 | 170 | 1.929 | 49 | 7.887 | 3.577 | 41000 | 181000 | 117000 | 520000 | 1400 | 140 | 4.843 |
| 4125 | 4.921 | 125 | 6.890 | 175 | 2.087 | 53 | 8.910 | 4.041 | 41000 | 181000 | 117000 | 520000 | 1300 | 150 | 5.039 |
| **4126** | 5.118 | 130 | 7.087 | 180 | 2.087 | 53 | 8.996 | 4.080 | 37000 | 165000 | 106000 | 470000 | 1300 | 155 | 5.236 |
| **4128** | 5.512 | 140 | 7.874 | 200 | 2.362 | 60 | 13.614 | 6.174 | 53000 | 234000 | 155000 | 690000 | 1200 | 170 | 5.630 |
| **4130** | 5.906 | 150 | 8.661 | 220 | 2.362 | 60 | 16.500 | 7.483 | 63000 | 280000 | 180000 | 800000 | 1100 | 185 | 6.063 |
| **4132** | 6.299 | 160 | 9.252 | 235 | 2.559 | 65 | 20.910 | 9.483 | 73000 | 325000 | 225000 | 1000000 | 1000 | 198 | 6.457 |
| **4134** | 6.693 | 170 | 9.843 | 250 | 2.756 | 70 | 25.569 | 11.596 | 81000 | 360000 | 250000 | 1110000 | 950 | 210 | 6.850 |
| **4136** | 7.087 | 180 | 10.236 | 260 | 2.756 | 70 | 26.771 | 12.141 | 88000 | 390000 | 277000 | 1230000 | 900 | 220 | 7.244 |
| **4138** | 7.480 | 190 | 10.827 | 275 | 3.150 | 80 | 34.885 | 15.821 | 97000 | 430000 | 306000 | 1360000 | 850 | 235 | 7.638 |
| **4140** | 7.874 | 200 | 11.417 | 290 | 3.150 | 80 | 38.398 | 17.414 | 105000 | 465000 | 335000 | 1490000 | 800 | 245 | 8.302 |

# Aligning Washers
## 4100 AW SERIES

- Used with 4100 series ball thrust bearings
- Order bearing separately

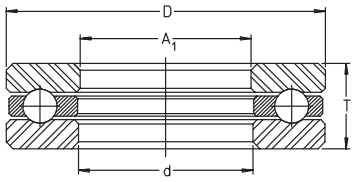



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT $A_2$ inch | SHAFT $A_2$ mm | OD $B_2$ inch | OD $B_2$ mm | WIDTH WASHER $H_2$ inch | WIDTH WASHER $H_2$ mm | WIDTH BEARING $H_1$ inch | WIDTH BEARING $H_1$ mm | WEIGHT WASHER lbs | WEIGHT WASHER kg |
|---|---|---|---|---|---|---|---|---|---|---|
| 4100AW | 0.551 | 14 | 1.378 | 35 | 0.138 | 3.5 | 0.591 | 15 | 0.030 | 0.014 |
| 4102AW | 0.748 | 19 | 1.496 | 38 | 0.197 | 5.0 | 0.669 | 17 | 0.050 | 0.023 |
| 4104AW | 0.984 | 25 | 1.772 | 45 | 0.217 | 5.5 | 0.709 | 18 | 0.080 | 0.036 |
| 4105AW | 1.339 | 34 | 0.197 | 5 | 0.236 | 6.0 | 0.748 | 19 | 0.070 | 0.032 |
| 4106AW | 1.673 | 43 | 2.323 | 59 | 0.236 | 6.0 | 0.787 | 20 | 0.130 | 0.059 |
| 4107AW | 1.693 | 43 | 2.638 | 67 | 0.276 | 7.0 | 0.906 | 23 | 0.160 | 0.073 |
| 4108AW | 1.890 | 48 | 2.717 | 69 | 0.276 | 7.0 | 0.906 | 23 | 0.150 | 0.068 |
| 4109AW | 2.087 | 53 | 3.071 | 78 | 0.315 | 8.0 | 1.063 | 27 | 0.240 | 0.109 |
| 4110AW | 2.284 | 58 | 3.268 | 83 | 0.315 | 8.0 | 1.063 | 27 | 0.260 | 0.118 |
| 4111AW | 2.598 | 66 | 3.701 | 94 | 0.315 | 8.0 | 1.181 | 30 | 0.310 | 0.141 |
| 4112AW | 2.717 | 69 | 3.780 | 96 | 0.315 | 8.0 | 1.181 | 30 | 0.310 | 0.141 |
| 4113AW | 2.913 | 74 | 4.134 | 105 | 0.354 | 9.0 | 1.339 | 34 | 0.420 | 0.191 |
| 4114AW | 3.110 | 79 | 4.291 | 109 | 0.354 | 9.0 | 1.339 | 34 | 0.420 | 0.191 |
| 4115AW | 3.307 | 84 | 4.488 | 114 | 0.394 | 10.0 | 1.339 | 34 | 0.420 | 0.191 |
| 4116AW | 3.504 | 89 | 4.882 | 124 | 0.394 | 10.0 | 1.457 | 37 | 0.660 | 0.299 |
| 4117AW | 3.780 | 96 | 5.433 | 138 | 0.413 | 10.5 | 1.575 | 40 | 0.950 | 0.431 |
| 4118AW | 4.201 | 107 | 5.551 | 141 | 0.413 | 10.5 | 1.575 | 40 | 0.770 | 0.349 |
| 4119AW | 4.213 | 107 | 5.945 | 151 | 0.492 | 12.5 | 1.732 | 44 | 1.200 | 0.544 |
| 4120AW | 4.409 | 112 | 6.142 | 156 | 0.512 | 13.0 | 1.732 | 44 | 1.500 | 0.680 |
| 4121AW | 4.646 | 118 | 6.417 | 163 | 0.551 | 14.0 | 1.929 | 49 | 1.600 | 0.726 |
| 4122AW | 4.921 | 125 | 6.693 | 170 | 0.551 | 14.0 | 1.929 | 49 | 1.800 | 0.816 |
| 4123AW | 5.039 | 128 | 6.811 | 173 | 0.551 | 14.0 | 2.047 | 52 | 1.800 | 0.816 |
| 4124AW | 5.394 | 137 | 7.087 | 180 | 0.551 | 14.0 | 2.047 | 52 | 1.800 | 0.816 |
| 4125AW | 5.472 | 139 | 7.323 | 186 | 0.551 | 14.0 | 2.205 | 56 | 1.800 | 0.816 |
| 4126AW | 5.709 | 145 | 7.480 | 190 | 0.551 | 14.0 | 2.205 | 56 | 2.000 | 0.907 |
| 4128AW | 6.102 | 155 | 8.347 | 212 | 0.610 | 15.5 | 2.441 | 62 | 3.100 | 1.406 |
| 4132AW | 7.087 | 180 | 9.252 | 235 | 0.709 | 18.0 | 2.756 | 70 | 5.499 | 2.494 |
| 4130AW | 7.165 | 182 | 8.663 | 220 | 0.630 | 16.0 | 2.559 | 65 | 5.499 | 2.494 |
| 4134AW | 7.480 | 190 | 9.843 | 250 | 0.787 | 20.0 | 2.953 | 75 | 5.499 | 2.494 |
| 4136AW | 7.953 | 202 | 10.236 | 260 | 0.748 | 19.0 | 2.953 | 75 | 6.600 | 2.993 |
| 4138AW | 8.386 | 213 | 10.827 | 275 | 0.945 | 24.0 | 3.386 | 86 | 6.600 | 2.993 |
| 4140AW | 8.819 | 224 | 11.417 | 290 | 0.866 | 22.0 | 3.386 | 86 | 6.600 | 2.993 |

# Ball Thrust Bearings
## 4400 SERIES

- Medium cross section
- Grooved race
- Single direction
- Separable axial contact
- Speed limit shown is for oil lubrication



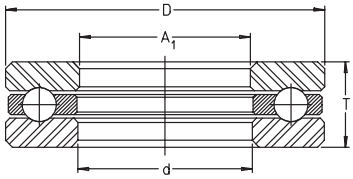

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm | BORE $A_1$ inch | BORE $A_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4401 | 0.500 | 12.700 | 1.438 | 36.513 | 0.625 | 15.875 | 0.190 | 0.086 | 3170 | 14100 | 4430 | 19700 | 8000 | 0.531 | 13.487 |
| **4402** | 0.563 | 14.288 | 1.438 | 36.530 | 0.625 | 15.875 | 0.185 | 0.084 | 3170 | 14100 | 4430 | 19700 | 8000 | 0.594 | 15.088 |
| 4403 | 0.625 | 15.875 | 1.563 | 39.700 | 0.625 | 15.875 | 0.218 | 0.099 | 3510 | 15600 | 5530 | 24600 | 7000 | 0.656 | 16.662 |
| **4404** | 0.688 | 17.463 | 1.563 | 39.700 | 0.625 | 15.875 | 0.212 | 0.096 | 3510 | 15600 | 5530 | 24600 | 7000 | 0.719 | 18.263 |
| 4405 | 0.750 | 19.050 | 1.688 | 42.880 | 0.630 | 16.000 | 0.247 | 0.112 | 3840 | 17100 | 6630 | 29500 | 6500 | 0.781 | 19.837 |
| **4406** | 0.813 | 20.638 | 1.688 | 42.880 | 0.625 | 15.875 | 0.236 | 0.107 | 3840 | 17100 | 6630 | 29500 | 6500 | 0.844 | 21.438 |
| 4407 | 0.875 | 22.225 | 1.938 | 49.230 | 0.750 | 19.050 | 0.390 | 0.177 | 5850 | 26000 | 10340 | 46000 | 5000 | 0.906 | 23.012 |
| **4408** | 0.938 | 23.813 | 1.938 | 49.230 | 0.750 | 19.050 | 0.377 | 0.171 | 5850 | 26000 | 10340 | 46000 | 5000 | 0.969 | 24.613 |
| 4409 | 1.000 | 25.400 | 2.063 | 52.400 | 0.750 | 19.050 | 0.419 | 0.190 | 5850 | 26000 | 10340 | 46000 | 5000 | 1.031 | 26.187 |
| **4410** | 1.063 | 26.988 | 2.063 | 52.400 | 0.750 | 19.050 | 0.404 | 0.183 | 5850 | 26000 | 10340 | 46000 | 5000 | 1.094 | 27.788 |
| 4411 | 1.125 | 28.575 | 2.188 | 55.580 | 0.750 | 19.050 | 0.454 | 0.206 | 5960 | 26500 | 11240 | 50000 | 4700 | 1.156 | 29.362 |
| 4412 | 1.188 | 30.163 | 2.188 | 55.580 | 0.750 | 19.050 | 0.437 | 0.198 | 5960 | 26500 | 11240 | 50000 | 4700 | 1.219 | 30.963 |
| 4413 | 1.250 | 31.750 | 2.313 | 58.750 | 0.750 | 19.050 | 0.483 | 0.219 | 5960 | 26500 | 11240 | 50000 | 4700 | 1.281 | 32.537 |
| 4414 | 1.313 | 33.338 | 2.313 | 58.750 | 0.750 | 19.050 | 0.470 | 0.213 | 6180 | 27500 | 12100 | 54000 | 4400 | 1.344 | 34.138 |
| 4415 | 1.375 | 34.925 | 2.438 | 61.930 | 0.750 | 19.050 | 0.509 | 0.231 | 5960 | 26500 | 12100 | 54000 | 4000 | 1.406 | 35.712 |
| 4416 | 1.438 | 36.513 | 2.438 | 61.930 | 0.750 | 19.050 | 0.498 | 0.226 | 5960 | 26500 | 12100 | 54000 | 4000 | 1.469 | 37.313 |
| 4417 | 1.500 | 38.100 | 2.563 | 65.100 | 0.750 | 19.050 | 0.556 | 0.252 | 6410 | 28500 | 13900 | 62000 | 3800 | 1.531 | 38.887 |
| 4418 | 1.563 | 39.688 | 2.563 | 65.100 | 0.750 | 19.050 | 0.534 | 0.242 | 6410 | 28500 | 13900 | 62000 | 3800 | 1.594 | 40.488 |
| 4419 | 1.625 | 41.275 | 2.813 | 71.450 | 0.875 | 22.225 | 0.809 | 0.367 | 10680 | 47500 | 23400 | 104000 | 3400 | 1.656 | 42.062 |
| 4420 | 1.688 | 42.863 | 2.813 | 71.450 | 0.875 | 22.225 | 0.783 | 0.355 | 10680 | 47500 | 23400 | 104000 | 3400 | 1.719 | 43.663 |
| 4421 | 1.750 | 44.450 | 2.938 | 74.630 | 0.875 | 22.225 | 0.851 | 0.386 | 9440 | 42000 | 21100 | 94000 | 3300 | 1.781 | 45.237 |
| 4422 | 1.813 | 46.038 | 2.938 | 74.630 | 0.875 | 22.225 | 0.822 | 0.373 | 9440 | 42000 | 21100 | 94000 | 3300 | 1.844 | 46.838 |
| 4423 | 1.875 | 47.625 | 3.063 | 77.800 | 0.875 | 22.225 | 0.889 | 0.403 | 9440 | 42000 | 21100 | 94000 | 3300 | 1.906 | 48.412 |
| 4424 | 1.938 | 49.213 | 3.063 | 77.800 | 0.875 | 22.225 | 0.878 | 0.398 | 6970 | 31000 | 17300 | 77000 | 3000 | 1.969 | 50.013 |
| 4425 | 2.000 | 50.800 | 3.188 | 80.980 | 0.875 | 22.225 | 0.953 | 0.432 | 6970 | 31000 | 17300 | 77000 | 3000 | 2.031 | 51.587 |
| 4426 | 2.063 | 52.388 | 3.188 | 80.980 | 0.875 | 22.225 | 0.917 | 0.416 | 6970 | 31000 | 17300 | 77000 | 3000 | 2.094 | 53.188 |
| 4427 | 2.125 | 53.975 | 3.313 | 84.150 | 0.875 | 22.225 | 0.970 | 0.440 | 9220 | 41000 | 22500 | 100000 | 2800 | 2.156 | 54.762 |
| 4428 | 2.188 | 55.563 | 3.313 | 84.138 | 0.875 | 22.225 | 0.937 | 0.425 | 9220 | 41000 | 22500 | 100000 | 2800 | 2.219 | 56.363 |
| 4429 | 2.250 | 57.150 | 3.438 | 87.330 | 0.880 | 22.360 | 1.019 | 0.462 | 9220 | 41000 | 22500 | 100000 | 2800 | 2.281 | 57.937 |
| 4430 | 2.313 | 58.738 | 3.438 | 87.330 | 0.875 | 22.225 | 1.001 | 0.454 | 8770 | 39000 | 22900 | 102000 | 2800 | 2.344 | 59.538 |
| 4431 | 2.375 | 60.325 | 3.563 | 90.500 | 0.875 | 22.225 | 1.001 | 0.454 | 8990 | 40000 | 22500 | 100000 | 2600 | 2.406 | 61.112 |
| 4432 | 2.438 | 61.913 | 3.563 | 90.500 | 0.875 | 22.225 | 1.010 | 0.458 | 8990 | 40000 | 22500 | 100000 | 2600 | 2.469 | 62.713 |
| 4433 | 2.500 | 63.500 | 4.000 | 101.600 | 1.125 | 28.580 | 1.881 | 0.853 | 14800 | 66000 | 36000 | 158000 | 2400 | 2.531 | 64.287 |
| **4434** | 2.563 | 65.088 | 4.000 | 101.600 | 1.125 | 28.580 | 1.830 | 0.830 | 14800 | 66000 | 36000 | 158000 | 2400 | 2.594 | 65.888 |
| 4435 | 2.625 | 66.675 | 4.125 | 104.770 | 1.125 | 28.580 | 1.998 | 0.906 | 16600 | 74000 | 42000 | 187000 | 2300 | 2.656 | 67.462 |
| **4436** | 2.750 | 69.850 | 4.250 | 107.950 | 1.125 | 28.580 | 2.059 | 0.934 | 16600 | 74000 | 42000 | 187000 | 2300 | 2.781 | 70.637 |
| **4437** | 2.938 | 74.613 | 4.438 | 112.730 | 1.125 | 28.580 | 2.170 | 0.984 | 16900 | 75000 | 44000 | 197000 | 2100 | 2.969 | 75.413 |
| 4438 | 3.000 | 76.200 | 4.500 | 114.300 | 1.125 | 28.580 | 2.201 | 0.998 | 16900 | 75000 | 44000 | 197000 | 2100 | 3.031 | 76.987 |
| 4439 | 3.125 | 79.375 | 4.625 | 117.480 | 1.125 | 28.580 | 2.260 | 1.025 | 16600 | 74000 | 44000 | 197000 | 2000 | 3.156 | 80.162 |
| 4440 | 3.250 | 82.550 | 4.750 | 120.650 | 1.125 | 28.580 | 2.322 | 1.053 | 16600 | 74000 | 44000 | 197000 | 2000 | 3.281 | 83.337 |
| 4441 | 3.375 | 85.725 | 4.875 | 123.820 | 1.125 | 28.580 | 2.388 | 1.083 | 24100 | 107000 | 62000 | 275000 | 1900 | 3.406 | 86.512 |
| 4442 | 3.500 | 88.900 | 5.000 | 127.000 | 1.125 | 28.580 | 2.498 | 1.133 | 17800 | 79000 | 51000 | 227000 | 1800 | 3.531 | 89.687 |
| 4443 | 3.625 | 92.075 | 5.625 | 142.880 | 1.375 | 34.930 | 3.991 | 1.810 | 30000 | 132000 | 80000 | 355000 | 1700 | 3.656 | 92.862 |
| 4444 | 3.750 | 95.250 | 5.750 | 146.050 | 1.375 | 34.930 | 4.434 | 2.011 | 30000 | 132000 | 80000 | 355000 | 1700 | 3.781 | 96.037 |
| **4445** | 3.875 | 98.425 | 5.875 | 149.230 | 1.375 | 34.930 | 4.807 | 2.180 | 24000 | 107000 | 70000 | 310000 | 1600 | 3.906 | 99.212 |
| 4446 | 4.000 | 101.600 | 6.000 | 152.400 | 1.375 | 34.925 | 4.648 | 2.108 | 24000 | 107000 | 70000 | 310000 | 1600 | 4.031 | 102.387 |

# Ball Thrust Bearings
## 4400 SERIES

- Medium cross section
- Grooved race
- Single direction
- Separable axial contact
- Speed limit shown is for oil lubrication



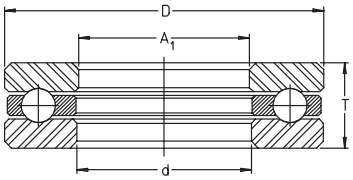

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm | BORE $A_1$ inch | BORE $A_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **4447** | 4.125 | 104.775 | 6.134 | 155.800 | 1.375 | 34.930 | 5.204 | 2.360 | 24000 | 107000 | 70000 | 310000 | 1500 | 4.156 | 105.562 |
| 4448 | 4.250 | 107.950 | 6.250 | 158.750 | 1.375 | 34.930 | 4.844 | 2.197 | 24000 | 107000 | 70000 | 310000 | 1500 | 4.281 | 108.737 |
| 4449 | 4.375 | 111.125 | 6.375 | 161.920 | 1.375 | 34.930 | 5.601 | 2.540 | 24000 | 107000 | 70000 | 310000 | 1500 | 4.406 | 111.912 |
| 4450 | 4.500 | 114.300 | 6.750 | 171.450 | 1.625 | 41.280 | 7.071 | 3.207 | 34000 | 153000 | 100000 | 445000 | 1400 | 4.531 | 115.087 |
| **4451** | 4.625 | 117.475 | 6.875 | 174.630 | 1.625 | 41.280 | 8.092 | 3.670 | 34000 | 153000 | 100000 | 445000 | 1400 | 4.656 | 118.262 |
| 4452 | 4.750 | 120.650 | 7.000 | 177.800 | 1.625 | 41.280 | 7.332 | 3.325 | 34000 | 153000 | 100000 | 445000 | 1300 | 4.781 | 121.437 |
| 4453 | 4.875 | 123.825 | 7.125 | 180.980 | 1.625 | 41.280 | 8.710 | 3.950 | 33000 | 149000 | 100000 | 445000 | 1300 | 4.906 | 124.612 |
| **4454** | 5.000 | 127.000 | 7.250 | 184.150 | 1.625 | 41.280 | 7.590 | 3.442 | 33000 | 149000 | 100000 | 445000 | 1300 | 5.031 | 127.787 |
| **4455** | 5.125 | 130.175 | 7.375 | 187.325 | 1.625 | 41.275 | 8.996 | 4.080 | 36000 | 159000 | 110000 | 490000 | 1300 | 5.156 | 130.962 |
| **4456** | 5.250 | 133.350 | 7.500 | 190.500 | 1.625 | 41.280 | 7.973 | 3.616 | 36000 | 159000 | 110000 | 490000 | 1200 | 5.281 | 134.137 |
| 4457 | 5.375 | 136.525 | 7.625 | 193.675 | 1.630 | 41.400 | 8.134 | 3.689 | 36000 | 159000 | 110000 | 490000 | 1200 | 5.406 | 137.312 |
| **4458** | 5.500 | 139.700 | 8.250 | 209.550 | 1.875 | 47.630 | 11.993 | 5.439 | 53000 | 234000 | 155000 | 690000 | 1200 | 5.531 | 140.487 |
| **4459** | 5.625 | 142.875 | 8.375 | 212.730 | 1.875 | 47.630 | 12.167 | 5.518 | 51000 | 228000 | 155000 | 690000 | 1100 | 5.656 | 143.662 |
| 4460 | 5.750 | 146.050 | 8.500 | 215.900 | 1.875 | 47.630 | 12.319 | 5.587 | 44000 | 197000 | 135000 | 600000 | 1100 | 5.781 | 146.837 |
| **4461** | 5.875 | 149.225 | 8.625 | 219.080 | 1.875 | 47.630 | 12.500 | 5.669 | 44000 | 197000 | 135000 | 600000 | 1100 | 5.906 | 150.012 |
| 4462 | 6.000 | 152.400 | 8.750 | 222.250 | 1.875 | 47.625 | 12.679 | 5.750 | 44000 | 197000 | 135000 | 600000 | 1100 | 6.031 | 153.187 |
| **4463** | 6.125 | 155.575 | 8.875 | 225.420 | 1.875 | 47.630 | 13.060 | 5.923 | 47000 | 210000 | 148000 | 660000 | 1000 | 6.156 | 156.362 |
| 4464 | 6.250 | 158.750 | 9.000 | 228.600 | 1.875 | 47.630 | 13.241 | 6.005 | 46000 | 204000 | 148000 | 660000 | 1000 | 6.281 | 159.537 |
| **4465** | 6.375 | 161.925 | 9.125 | 231.770 | 1.875 | 47.630 | 13.422 | 6.087 | 46000 | 204000 | 148000 | 660000 | 1000 | 6.406 | 162.712 |
| **4466** | 6.500 | 165.100 | 9.500 | 241.300 | 2.250 | 57.150 | 18.579 | 8.426 | 56000 | 250000 | 178000 | 790000 | 1000 | 6.531 | 165.887 |
| **4467** | 6.625 | 168.275 | 9.625 | 244.480 | 2.250 | 57.150 | 18.826 | 8.538 | 56000 | 250000 | 178000 | 790000 | 950 | 6.656 | 169.062 |
| 4468 | 6.750 | 171.450 | 9.750 | 247.650 | 2.250 | 57.150 | 19.367 | 8.783 | 60000 | 265000 | 196000 | 870000 | 950 | 6.781 | 172.237 |

# Ball Thrust Bearings
## 51100 SERIES

- Light cross section
- Grooved race
- Single direction axial contact
- Separable components
- Speed limit shown is for oil lubrication



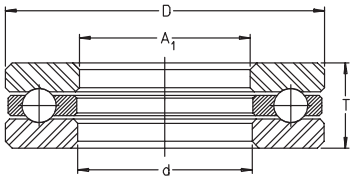

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | BORE $A_1$ inch | BORE $A_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 51100 | 0.394 | 10 | 0.945 | 24 | 0.354 | 9 | 0.042 | 0.019 | 1910 | 8.5 | 2500 | 11.1 | 11000 | 0.433 | 10.998 |
| 51101 | 0.472 | 12 | 1.024 | 26 | 0.354 | 9 | 0.049 | 0.022 | 2180 | 9.7 | 3130 | 13.9 | 11000 | 0.512 | 13.005 |
| 51102 | 0.591 | 15 | 1.102 | 28 | 0.354 | 9 | 0.051 | 0.023 | 2360 | 10.5 | 3730 | 16.6 | 9500 | 0.630 | 16.002 |
| 51103 | 0.669 | 17 | 1.181 | 30 | 0.354 | 9 | 0.055 | 0.025 | 2290 | 10.2 | 3730 | 16.6 | 8500 | 0.709 | 18.009 |
| 51104 | 0.787 | 20 | 1.378 | 35 | 0.394 | 10 | 0.084 | 0.038 | 3350 | 14.9 | 5960 | 26.5 | 7500 | 0.827 | 21.006 |
| 51105 | 0.984 | 25 | 1.654 | 42 | 0.433 | 11 | 0.126 | 0.057 | 4200 | 18.7 | 7760 | 34.5 | 6000 | 1.024 | 26.010 |
| 51106 | 1.181 | 30 | 1.850 | 47 | 0.433 | 11 | 0.106 | 0.048 | 4360 | 19.4 | 8880 | 39.5 | 5000 | 1.220 | 30.988 |
| 51107 | 1.378 | 35 | 2.087 | 53 | 0.472 | 12 | 0.194 | 0.088 | 4180 | 18.6 | 9220 | 41 | 4500 | 1.417 | 35.992 |
| **51107X** | 1.378 | 35 | 2.047 | 52 | 0.472 | 12 | 0.183 | 0.083 | 4180 | 18.6 | 9220 | 41 | 4600 | 1.417 | 35.992 |
| 51108 | 1.575 | 40 | 2.362 | 60 | 0.512 | 13 | 0.26 | 0.118 | 5600 | 24.9 | 12600 | 56 | 4000 | 1.654 | 42.012 |
| 51109 | 1.772 | 45 | 2.559 | 65 | 0.551 | 14 | 0.315 | 0.143 | 5850 | 26 | 13900 | 62 | 3600 | 1.850 | 46.990 |
| 51110 | 1.969 | 50 | 2.756 | 70 | 0.551 | 14 | 0.346 | 0.157 | 6070 | 27 | 15500 | 69 | 3300 | 2.047 | 51.994 |
| 51111 | 2.165 | 55 | 3.071 | 78 | 0.630 | 16 | 0.496 | 0.225 | 6970 | 31 | 17300 | 77 | 3000 | 2.244 | 56.998 |
| 51112 | 2.362 | 60 | 3.347 | 85 | 0.669 | 17 | 0.631 | 0.286 | 8770 | 39 | 22900 | 102 | 2800 | 2.441 | 62.001 |
| 51113 | 2.559 | 65 | 3.543 | 90 | 0.709 | 18 | 0.708 | 0.321 | 9670 | 43 | 25000 | 111 | 2600 | 2.638 | 67.005 |
| 51114 | 2.756 | 70 | 3.740 | 95 | 0.709 | 18 | 0.759 | 0.344 | 10200 | 45.5 | 27000 | 122 | 2400 | 2.835 | 72.009 |
| 51115 | 2.953 | 75 | 3.937 | 100 | 0.748 | 19 | 0.862 | 0.391 | 10300 | 46 | 29000 | 127 | 2300 | 3.031 | 76.987 |
| 51116 | 3.150 | 80 | 4.134 | 105 | 0.748 | 19 | 0.931 | 0.422 | 9400 | 42 | 29000 | 130 | 2200 | 3.228 | 81.991 |
| 51117 | 3.347 | 85 | 4.331 | 110 | 0.748 | 19 | 0.972 | 0.441 | 9400 | 42 | 29000 | 130 | 2100 | 3.465 | 88.011 |
| 51118 | 3.543 | 90 | 4.724 | 120 | 0.866 | 22 | 1.424 | 0.646 | 11900 | 53 | 35000 | 156 | 1900 | 3.661 | 92.989 |
| 51120 | 3.937 | 100 | 5.315 | 135 | 0.984 | 25 | 2.119 | 0.961 | 17800 | 79 | 53000 | 237 | 1700 | 4.055 | 102.997 |
| 51122 | 4.331 | 110 | 5.709 | 145 | 0.984 | 25 | 2.335 | 1.059 | 19100 | 85 | 62000 | 275 | 1600 | 4.449 | 113.005 |
| 51124 | 4.724 | 120 | 6.102 | 155 | 0.984 | 25 | 2.476 | 1.123 | 18700 | 83 | 62000 | 275 | 1500 | 4.843 | 123.012 |
| 51126 | 5.118 | 130 | 6.693 | 170 | 1.181 | 30 | 3.740 | 1.696 | 22500 | 100 | 73000 | 325 | 1300 | 5.236 | 132.994 |
| 51128 | 5.512 | 140 | 7.087 | 180 | 1.221 | 31 | 4.172 | 1.892 | 22900 | 102 | 79000 | 350 | 1200 | 5.630 | 143.002 |
| 51130 | 5.906 | 150 | 7.480 | 190 | 1.221 | 31 | 4.492 | 2.037 | 24300 | 108 | 90000 | 400 | 1200 | 6.024 | 153.010 |
| 51132 | 6.299 | 160 | 7.874 | 200 | 1.221 | 31 | 4.708 | 2.135 | 24300 | 108 | 90000 | 400 | 1100 | 6.417 | 162.992 |
| 51134 | 6.693 | 170 | 8.465 | 215 | 1.339 | 34 | 6.143 | 2.786 | 28000 | 125 | 103000 | 460 | 1000 | 6.811 | 172.999 |
| **51136** | 7.087 | 180 | 8.858 | 225 | 1.339 | 34 | 6.478 | 2.938 | 29000 | 130 | 111000 | 495 | 1000 | 7.205 | 183.007 |
| 51138 | 7.480 | 190 | 9.449 | 240 | 1.457 | 37 | 9.51 | 4.313 | 34000 | 153 | 128000 | 570 | 950 | 7.598 | 192.989 |
| **51140** | 7.874 | 200 | 9.843 | 250 | 1.457 | 37 | 8.56 | 3.882 | 36000 | 160 | 137000 | 610 | 900 | 7.992 | 202.997 |
| **51144** | 8.661 | 220 | 10.630 | 270 | 1.457 | 37 | 9.283 | 4.210 | 36000 | 161 | 146000 | 650 | 800 | 8.780 | 223.012 |
| **51148** | 9.449 | 240 | 11.811 | 300 | 1.772 | 45 | 15.04 | 6.821 | 48000 | 214 | 189000 | 840 | 750 | 9.567 | 243.002 |
| **51152** | 10.236 | 260 | 12.598 | 320 | 1.772 | 45 | 16.134 | 7.317 | 48000 | 215 | 202000 | 900 | 700 | 10.354 | 262.992 |
| **51156** | 11.024 | 280 | 13.780 | 350 | 2.087 | 53 | 24.202 | 10.976 | 65000 | 290 | 265000 | 1180 | 650 | 11.142 | 283.007 |
| **51160** | 11.811 | 300 | 14.961 | 380 | 2.441 | 62 | 35.514 | 16.106 | 81000 | 360 | 337000 | 1500 | 600 | 11.929 | 302.997 |
| **51164** | 12.598 | 320 | 15.748 | 400 | 2.480 | 63 | 38.14 | 17.297 | 89000 | 395 | 375000 | 1670 | 550 | 12.716 | 322.986 |
| **51168** | 13.386 | 340 | 16.535 | 420 | 2.520 | 64 | 40.673 | 18.446 | 89000 | 395 | 375000 | 1670 | 550 | 13.503 | 342.976 |
| **51172** | 14.173 | 360 | 17.323 | 440 | 2.559 | 65 | 43.432 | 19.697 | 98000 | 435 | 416000 | 1850 | 500 | 14.291 | 362.991 |

# Ball Thrust Bearings
## 51200 SERIES

- Metric series
- Medium cross section
- Grooved race
- Single direction
- Separable axial contact
- Speed limit shown is for oil lubrication



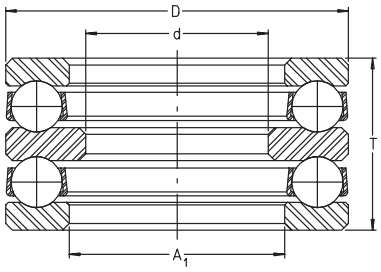

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | BORE $A_1$ inch | BORE $A_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **51200** | 0.394 | 10 | 1.024 | 26 | 0.433 | 11 | 0.064 | 0.029 | 2630 | 11.7 | 3395 | 15.1 | 11000 | 0.472 | 11.989 |
| **51201** | 0.472 | 12 | 1.102 | 28 | 0.433 | 11 | 0.095 | 0.043 | 2160 | 9.6 | 3125 | 13.9 | 10000 | 0.551 | 13.995 |
| 51202 | 0.591 | 15 | 1.260 | 32 | 0.472 | 12 | 0.130 | 0.059 | 3210 | 14.3 | 5100 | 22.7 | 8500 | 0.669 | 16.993 |
| 51203 | 0.669 | 17 | 1.378 | 35 | 0.472 | 12 | 0.119 | 0.054 | 3420 | 15.2 | 6000 | 26.5 | 7500 | 0.748 | 18.999 |
| 51204 | 0.787 | 20 | 1.575 | 40 | 0.551 | 14 | 0.170 | 0.077 | 4450 | 19.8 | 7000 | 31 | 6500 | 0.866 | 21.996 |
| 51205 | 0.984 | 25 | 1.850 | 47 | 0.591 | 15 | 0.320 | 0.145 | 5000 | 22.3 | 9100 | 40.5 | 5500 | 1.063 | 27.000 |
| 51206 | 1.181 | 30 | 2.047 | 52 | 0.630 | 16 | 0.388 | 0.176 | 6000 | 26.5 | 11200 | 50 | 4900 | 1.260 | 32.004 |
| 51207 | 1.378 | 35 | 2.441 | 62 | 0.709 | 18 | 0.467 | 0.212 | 8000 | 35.5 | 15100 | 67 | 4200 | 1.457 | 37.008 |
| 51208 | 1.575 | 40 | 2.677 | 68 | 0.748 | 19 | 0.774 | 0.351 | 8500 | 38 | 17500 | 78 | 3700 | 1.654 | 42.012 |
| 51209 | 1.772 | 45 | 2.874 | 73 | 0.787 | 20 | 0.690 | 0.313 | 10700 | 47.5 | 23400 | 104 | 3400 | 1.850 | 46.990 |
| **51210** | 1.969 | 50 | 3.071 | 78 | 0.866 | 22 | 1.061 | 0.481 | 12100 | 54 | 27000 | 121 | 3100 | 2.047 | 51.994 |
| **51211** | 2.165 | 55 | 3.543 | 90 | 0.984 | 25 | 1.330 | 0.603 | 15700 | 70 | 36000 | 158 | 2800 | 2.244 | 56.998 |
| **51212** | 2.362 | 60 | 3.740 | 95 | 1.024 | 26 | 1.903 | 0.863 | 12400 | 55 | 31000 | 136 | 2600 | 2.441 | 62.001 |
| **51213** | 2.559 | 65 | 3.937 | 100 | 1.063 | 27 | 1.629 | 0.739 | 14800 | 66 | 36000 | 158 | 2400 | 2.638 | 67.005 |
| **51214** | 2.756 | 70 | 4.134 | 105 | 1.063 | 27 | 1.821 | 0.826 | 21400 | 95 | 42000 | 187 | 5500 | 2.835 | 72.009 |
| **51215** | 2.953 | 75 | 4.331 | 110 | 1.063 | 27 | 1.865 | 0.846 | 16900 | 75 | 44000 | 197 | 2100 | 3.031 | 76.987 |
| 51216 | 3.150 | 80 | 4.528 | 115 | 1.102 | 28 | 2.026 | 0.919 | 20000 | 89 | 51000 | 225 | 2100 | 3.228 | 81.991 |
| **51217** | 3.347 | 85 | 4.921 | 125 | 1.221 | 31 | 2.761 | 1.252 | 24000 | 107 | 62000 | 275 | 1900 | 3.465 | 88.011 |
| **51218** | 3.543 | 90 | 5.315 | 135 | 1.378 | 35 | 3.691 | 1.674 | 27000 | 120 | 67000 | 300 | 1800 | 3.661 | 92.989 |
| **51220** | 3.937 | 100 | 5.906 | 150 | 1.496 | 38 | 4.902 | 2.223 | 31000 | 137 | 80000 | 355 | 1600 | 4.055 | 102.997 |
| **51222** | 4.331 | 110 | 6.299 | 160 | 1.496 | 38 | 5.413 | 2.455 | 39000 | 172 | 106000 | 470 | 1500 | 4.449 | 113.005 |
| **51224** | 4.724 | 120 | 6.693 | 170 | 1.535 | 39 | 7.607 | 3.450 | 41000 | 181 | 117000 | 520 | 1400 | 4.843 | 123.012 |
| **51226** | 5.118 | 130 | 7.480 | 190 | 1.772 | 45 | 9.087 | 4.121 | 40000 | 177 | 117000 | 520 | 1300 | 5.236 | 132.994 |
| **51228** | 5.512 | 140 | 7.874 | 200 | 1.811 | 46 | 9.986 | 4.529 | 53000 | 234 | 155000 | 690 | 1200 | 5.630 | 143.002 |
| **51230** | 5.906 | 150 | 8.465 | 215 | 1.969 | 50 | 12.324 | 5.589 | 55000 | 245 | 160000 | 710 | 1100 | 6.024 | 153.01 |
| **51232** | 6.299 | 160 | 8.858 | 225 | 2.008 | 51 | 13.345 | 6.052 | 56000 | 248 | 169000 | 750 | 1000 | 6.417 | 162.992 |
| **51234** | 6.693 | 170 | 9.449 | 240 | 2.165 | 55 | 16.524 | 7.494 | 62000 | 275 | 189000 | 840 | 1000 | 6.811 | 172.999 |
| **51236** | 7.087 | 180 | 9.843 | 250 | 2.205 | 56 | 17.755 | 8.052 | 64000 | 285 | 200000 | 890 | 950 | 7.205 | 183.007 |
| **51238** | 7.480 | 190 | 10.630 | 270 | 2.441 | 62 | 24.072 | 10.917 | 79000 | 350 | 250000 | 1110 | 850 | 7.638 | 194.005 |
| **51240** | 7.874 | 200 | 11.024 | 280 | 2.441 | 62 | 25.150 | 11.406 | 81000 | 360 | 263000 | 1170 | 850 | 8.031 | 203.987 |
| **51244** | 8.661 | 220 | 11.811 | 300 | 2.480 | 63 | 27.629 | 12.530 | 82000 | 365 | 274000 | 1220 | 750 | 8.819 | 224.003 |
| **51248** | 9.449 | 240 | 13.386 | 340 | 3.071 | 78 | 47.796 | 21.676 | 119000 | 530 | 398000 | 1770 | 700 | 9.606 | 243.992 |
| **51252** | 10.236 | 260 | 14.173 | 360 | 3.110 | 79 | 52.254 | 23.698 | 124000 | 550 | 438000 | 1950 | 650 | 10.394 | 264.008 |
| **51256** | 11.024 | 280 | 14.961 | 380 | 3.150 | 80 | 56.318 | 25.541 | 128000 | 570 | 459000 | 2040 | 600 | 11.181 | 283.997 |
| **51260** | 11.811 | 300 | 16.535 | 420 | 3.740 | 95 | 87.885 | 39.857 | 164000 | 730 | 598000 | 2660 | 550 | 11.969 | 304.013 |
| **51264** | 12.598 | 320 | 17.323 | 440 | 3.740 | 95 | 92.588 | 41.990 | 169000 | 750 | 625000 | 2780 | 550 | 12.795 | 324.993 |
| **51268** | 13.386 | 340 | 18.110 | 460 | 3.780 | 96 | 98.608 | 44.720 | 169000 | 750 | 652000 | 2900 | 500 | 13.583 | 345.008 |
| **51272** | 14.173 | 360 | 19.685 | 500 | 4.331 | 110 | 141.753 | 64.287 | 216000 | 960 | 816000 | 3630 | 470 | 14.370 | 364.998 |

# Ball Thrust Bearings
## 52200 & 52300 SERIES




- Metric series
- Double direction – flat seat
- Separable axial contact
- Speed limit shown is for oil lubrication

- Part numbers shown in bold may **not** be readily available, please call to check availability.

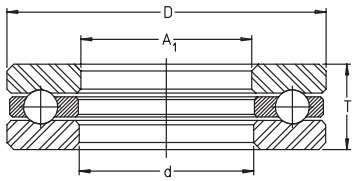
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WASHER BORE $A_1$ inch | WASHER BORE $A_1$ mm | WIDTH T inch | WIDTH T mm | CENTER THICKNESS B inch | CENTER THICKNESS B mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STA. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **52202** | 0.394 | 10 | 1.260 | 32 | 0.669 | 17 | 22.000 | 22 | 0.197 | 5 | 0.179 | 0.081 | 3,700 | 16500 | 5,600 | 25000 | 7000 |
| 52204 | 0.591 | 15 | 1.575 | 40 | 0.866 | 22 | 1.024 | 26 | 0.236 | 6 | 0.331 | 0.150 | 5,100 | 22500 | 8,400 | 37500 | 6000 |
| 52205 | 0.787 | 20 | 1.850 | 47 | 1.063 | 27 | 1.102 | 28 | 0.276 | 7 | 0.485 | 0.220 | 6,200 | 27600 | 11,200 | 50000 | 5300 |
| 52206 | 0.984 | 25 | 2.047 | 52 | 1.260 | 32 | 1.142 | 29 | 0.276 | 7 | 0.551 | 0.250 | 5,700 | 25500 | 10,700 | 47500 | 4800 |
| 52207 | 1.181 | 30 | 2.441 | 62 | 1.457 | 37 | 1.339 | 34 | 0.315 | 8 | 0.904 | 0.410 | 7,900 | 35100 | 15,100 | 67000 | 4000 |
| 52208 | 1.181 | 30 | 2.677 | 68 | 1.654 | 42 | 1.417 | 36 | 0.354 | 9 | 1.213 | 0.550 | 10,500 | 46800 | 22,000 | 98000 | 4000 |
| 52209 | 1.378 | 35 | 2.874 | 73 | 1.850 | 47 | 1.457 | 37 | 0.354 | 9 | 1.323 | 0.600 | 8,800 | 39000 | 18,000 | 80000 | 3600 |
| 52210 | 1.575 | 40 | 3.071 | 78 | 2.047 | 52 | 1.535 | 39 | 0.354 | 9 | 1.566 | 0.710 | 11,100 | 49400 | 23,800 | 106000 | 3400 |

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WASHER BORE $A_1$ inch | WASHER BORE $A_1$ mm | WIDTH T inch | WIDTH T mm | CENTER THICKNESS B inch | CENTER THICKNESS B mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **52305** | 0.787 | 20 | 2.047 | 52 | 1.063 | 27 | 1.339 | 34 | 0.315 | 8 | 0.728 | 0.330 | 7,800 | 34500 | 12,400 | 55000 | 4500 |
| **52306** | 0.984 | 25 | 2.362 | 60 | 1.260 | 32 | 1.496 | 38 | 0.354 | 9 | 1.036 | 0.470 | 8,500 | 37700 | 14,700 | 65500 | 3800 |
| **52307** | 1.181 | 30 | 2.677 | 68 | 1.457 | 37 | 1.732 | 44 | 0.354 | 9 | 1.499 | 0.680 | 11,100 | 49400 | 19,800 | 88000 | 3400 |
| **52308** | 1.181 | 30 | 3.071 | 78 | 1.654 | 42 | 1.929 | 49 | 0.394 | 10 | 2.315 | 1.050 | 13,900 | 61800 | 25,200 | 11200 | 3000 |
| **52309** | 1.378 | 35 | 3.346 | 85 | 1.850 | 47 | 2.047 | 52 | 0.472 | 12 | 2.756 | 1.250 | 17,100 | 76100 | 31,500 | 140000 | 2800 |
| **52310** | 1.575 | 40 | 3.740 | 95 | 2.047 | 52 | 2.283 | 58 | 0.551 | 14 | 3.859 | 1.750 | 19,900 | 88400 | 38,900 | 173000 | 2600 |

# Ball Thrust Bearings
## 900 SERIES

- Medium cross section
- Grooved race
- Single direction
- Available as self aligning 4100/4100AW series
- Separable axial contact
- Speed limit shown is for oil lubrication



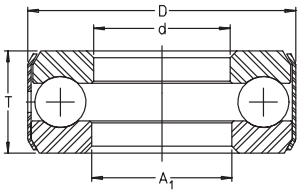

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | BORE $A_1$ inch | BORE $A_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 900 | 0.394 | 10 | 0.984 | 25 | 0.472 | 12 | 0.067 | 0.030 | 2650 | 11.8 | 3390 | 15.1 | 11000 | 0.402 | 10.211 |
| 902 | 0.591 | 15 | 1.378 | 35 | 0.551 | 14 | 0.143 | 0.065 | 4340 | 19.3 | 6290 | 28 | 8000 | 0.598 | 15.189 |
| 904 | 0.787 | 20 | 1.575 | 40 | 0.551 | 14 | 0.169 | 0.077 | 4450 | 19.8 | 6970 | 31 | 6500 | 0.795 | 20.193 |
| 905 | 0.984 | 25 | 1.890 | 48 | 0.610 | 15.5 | 0.265 | 0.120 | 5850 | 26 | 10300 | 46 | 5000 | 0.992 | 25.197 |
| 906 | 1.181 | 30 | 2.087 | 53 | 0.610 | 15.5 | 0.298 | 0.135 | 5960 | 26.5 | 11200 | 50 | 4700 | 1.189 | 30.201 |
| 907 | 1.378 | 35 | 2.441 | 62 | 0.709 | 18 | 0.467 | 0.212 | 7980 | 35.5 | 15100 | 67 | 4200 | 1.386 | 35.204 |
| 908 | 1.575 | 40 | 2.520 | 64 | 0.709 | 18 | 0.465 | 0.211 | 8540 | 38 | 17500 | 78 | 3800 | 1.583 | 40.208 |
| 909 | 1.772 | 45 | 2.874 | 73 | 0.866 | 22 | 0.782 | 0.355 | 10700 | 47.5 | 23400 | 104 | 3400 | 1.780 | 45.212 |
| 910 | 1.969 | 50 | 3.071 | 78 | 0.866 | 22 | 0.843 | 0.382 | 12100 | 54 | 27000 | 121 | 3100 | 1.976 | 50.19 |
| 911 | 2.165 | 55 | 3.465 | 88 | 0.965 | 24.5 | 1.225 | 0.556 | 15700 | 70 | 36000 | 158 | 2800 | 2.173 | 55.194 |
| 912 | 2.362 | 60 | 3.543 | 90 | 0.965 | 24.5 | 1.186 | 0.538 | 12600 | 56 | 31000 | 136 | 2600 | 2.370 | 60.198 |
| 913 | 2.559 | 65 | 3.937 | 100 | 1.063 | 27 | 1.629 | 0.739 | 14800 | 66 | 36000 | 158 | 2400 | 2.567 | 65.202 |
| 914 | 2.756 | 70 | 4.055 | 103 | 1.063 | 27 | 1.670 | 0.757 | 16600 | 74 | 42000 | 187 | 2300 | 2.764 | 70.206 |
| 915 | 2.953 | 75 | 4.331 | 110 | 1.063 | 27 | 1.865 | 0.846 | 16900 | 75 | 44000 | 197 | 2100 | 2.961 | 75.209 |
| 916 | 3.150 | 80 | 4.528 | 115 | 1.142 | 29 | 2.119 | 0.961 | 20000 | 89 | 51000 | 225 | 2100 | 3.228 | 81.991 |
| 917 | 3.347 | 85 | 4.921 | 125 | 1.201 | 30.5 | 2.703 | 1.226 | 24000 | 107 | 62000 | 275 | 1900 | 3.354 | 85.192 |
| 918 | 3.543 | 90 | 5.315 | 135 | 1.201 | 30.5 | 3.067 | 1.391 | 27000 | 120 | 67000 | 300 | 1800 | 3.551 | 90.195 |
| 919 | 3.740 | 95 | 5.512 | 140 | 1.280 | 32.5 | 3.603 | 1.634 | 30000 | 132 | 80000 | 355 | 1700 | 3.748 | 95.199 |
| 920 | 3.937 | 100 | 5.906 | 150 | 1.280 | 32.5 | 7.380 | 3.347 | 31000 | 137 | 80000 | 355 | 1600 | 3.945 | 100.203 |
| 921 | 4.134 | 105 | 6.102 | 155 | 1.575 | 40 | 5.541 | 2.513 | 38000 | 169 | 99000 | 440 | 1500 | 4.142 | 105.207 |
| 922 | 4.331 | 110 | 6.299 | 160 | 1.575 | 40 | 6.196 | 2.810 | 39000 | 172 | 106000 | 470 | 1500 | 4.339 | 110.211 |
| 923 | 4.528 | 115 | 6.496 | 165 | 1.693 | 43 | 6.518 | 2.956 | 39000 | 172 | 106000 | 470 | 1400 | 4.535 | 115.189 |
| 924 | 4.724 | 120 | 6.693 | 170 | 1.693 | 43 | 6.858 | 3.110 | 41000 | 181 | 117000 | 520 | 1400 | 4.732 | 120.193 |
| 925 | 4.921 | 125 | 6.890 | 175 | 1.831 | 46.5 | 7.757 | 3.518 | 41000 | 181 | 117000 | 520 | 1300 | 4.929 | 125.197 |
| **926** | 5.118 | 130 | 7.087 | 180 | 1.831 | 46.5 | 8.401 | 3.810 | 40000 | 177 | 117000 | 520 | 1300 | 5.126 | 130.2 |
| 928 | 5.512 | 140 | 7.874 | 200 | 2.047 | 52 | 11.660 | 5.288 | 53000 | 234 | 155000 | 690 | 1200 | 5.520 | 140.208 |
| 930 | 5.906 | 150 | 8.661 | 220 | 2.165 | 55 | 16.008 | 7.260 | 63000 | 280 | 180000 | 800 | 1100 | 5.913 | 150.19 |
| **932** | 6.299 | 160 | 9.252 | 235 | 2.362 | 60 | 19.309 | 8.757 | 73000 | 325 | 225000 | 1000 | 1000 | 6.319 | 160.503 |
| **934** | 6.693 | 170 | 9.843 | 250 | 2.559 | 65 | 26.019 | 11.800 | 81000 | 360 | 250000 | 1110 | 950 | 6.713 | 170.51 |
| **936** | 7.087 | 180 | 10.236 | 260 | 2.559 | 65 | 24.910 | 11.297 | 88000 | 390 | 277000 | 1230 | 900 | 7.106 | 180.492 |
| **938** | 7.480 | 190 | 10.827 | 275 | 2.756 | 70 | 31.973 | 14.500 | 97000 | 430 | 306000 | 1360 | 850 | 7.500 | 190.5 |
| **940** | 7.874 | 200 | 11.417 | 290 | 2.756 | 70 | 33.148 | 15.033 | 105000 | 465 | 335000 | 1490 | 800 | 7.894 | 200.508 |
| **944** | 8.661 | 220 | 12.402 | 315 | 3.150 | 80 | 48.069 | 21.800 | 102000 | 455 | 335000 | 1490 | 750 | 8.681 | 220.497 |
| **948** | 9.449 | 240 | 13.583 | 345 | 3.347 | 85 | 56.510 | 25.628 | 142000 | 630 | 468000 | 2080 | 700 | 9.468 | 240.487 |
| **952** | 10.236 | 260 | 14.764 | 375 | 3.543 | 90 | 63.063 | 28.600 | 162000 | 720 | 542000 | 2410 | 650 | 10.256 | 260.502 |
| **956** | 11.024 | 280 | 15.748 | 400 | 3.740 | 95 | 83.228 | 37.745 | 182000 | 810 | 623000 | 2770 | 600 | 11.043 | 280.492 |
| **960** | 11.811 | 300 | 16.929 | 430 | 4.134 | 105 | 115.326 | 52.302 | 205000 | 910 | 708000 | 3150 | 550 | 11.831 | 300.507 |

# Ball Thrust Bearings
## B SERIES

- Banded assembly – Non-separable
- Medium cross section
- Grooved race
- Single direction
- Oil hole in band – Standard
- Speed limit shown is for oil lubrication



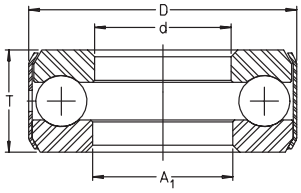

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm | BORE $A_1$ inch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B1 | 0.500 | 12.700 | 1.219 | 30.956 | 0.625 | 15.880 | 0.132 | 0.060 | 3850 | 17100 | 5600 | 24900 | 7000 | 0.531 |
| B2 | 0.563 | 14.288 | 1.219 | 30.960 | 0.625 | 15.880 | 0.130 | 0.059 | 3850 | 17100 | 5600 | 24900 | 7000 | 0.594 |
| B3 | 0.625 | 15.875 | 1.344 | 34.138 | 0.625 | 15.875 | 0.154 | 0.070 | 4100 | 18200 | 6700 | 29800 | 6000 | 0.656 |
| B4 | 0.688 | 17.463 | 1.344 | 34.140 | 0.625 | 15.880 | 0.148 | 0.067 | 4100 | 18200 | 6700 | 29800 | 6000 | 0.719 |
| B5 | 0.750 | 19.050 | 1.469 | 37.313 | 0.625 | 15.880 | 0.174 | 0.079 | 4250 | 18900 | 7300 | 32500 | 5500 | 0.781 |
| B6 | 0.813 | 20.638 | 1.469 | 37.310 | 0.625 | 15.880 | 0.165 | 0.075 | 4250 | 18900 | 7300 | 32500 | 5500 | 0.844 |
| B7 | 0.875 | 22.225 | 1.844 | 46.840 | 0.750 | 19.050 | 0.344 | 0.156 | 6600 | 29400 | 12200 | 54300 | 4100 | 0.906 |
| B8 | 0.938 | 23.813 | 1.844 | 46.838 | 0.750 | 19.050 | 0.333 | 0.151 | 6600 | 29400 | 12200 | 54300 | 4100 | 0.969 |
| B9 | 1.000 | 25.400 | 1.969 | 50.010 | 0.750 | 19.050 | 0.370 | 0.168 | 8500 | 37800 | 15100 | 67000 | 4000 | 1.031 |
| B10 | 1.063 | 26.988 | 1.969 | 50.012 | 0.750 | 19.050 | 0.357 | 0.162 | 8500 | 37800 | 15100 | 67000 | 4000 | 1.094 |
| B11 | 1.125 | 28.575 | 2.094 | 53.190 | 0.750 | 19.050 | 0.399 | 0.181 | 8800 | 39100 | 16300 | 73000 | 3700 | 1.156 |
| B12 | 1.188 | 30.163 | 2.094 | 53.190 | 0.750 | 19.050 | 0.386 | 0.175 | 8800 | 39100 | 16300 | 73000 | 3700 | 1.219 |
| B13 | 1.250 | 31.750 | 2.344 | 59.538 | 0.750 | 19.050 | 0.490 | 0.222 | 9300 | 41400 | 18800 | 84000 | 3200 | 1.281 |
| B14 | 1.313 | 33.338 | 2.344 | 59.540 | 0.750 | 19.050 | 0.481 | 0.218 | 9300 | 41400 | 18800 | 84000 | 3200 | 1.354 |
| B15 | 1.375 | 34.925 | 2.469 | 62.713 | 0.750 | 19.050 | 0.527 | 0.239 | 9500 | 42300 | 20100 | 89000 | 3000 | 1.406 |
| B16 | 1.438 | 36.513 | 2.469 | 62.710 | 0.750 | 19.050 | 0.512 | 0.232 | 9500 | 42300 | 20100 | 89000 | 3000 | 1.469 |
| B17 | 1.500 | 38.100 | 2.594 | 65.888 | 0.750 | 19.050 | 0.556 | 0.252 | 9800 | 43600 | 21400 | 95000 | 2800 | 1.531 |
| B18 | 1.563 | 39.688 | 2.594 | 65.890 | 0.750 | 19.050 | 0.540 | 0.245 | 9800 | 43600 | 21400 | 95000 | 2800 | 1.594 |
| B19 | 1.625 | 41.275 | 2.969 | 75.410 | 0.875 | 22.220 | 0.869 | 0.394 | 12600 | 56000 | 27500 | 122000 | 2600 | 1.656 |
| B20 | 1.688 | 42.863 | 2.969 | 75.410 | 0.875 | 22.220 | 0.845 | 0.383 | 12600 | 56000 | 27500 | 122000 | 2600 | 1.719 |
| B21 | 1.750 | 44.450 | 3.094 | 78.590 | 0.875 | 22.220 | 0.922 | 0.418 | 12900 | 57400 | 29000 | 129000 | 2400 | 1.781 |
| B22 | 1.813 | 46.038 | 3.094 | 78.590 | 0.875 | 22.220 | 0.895 | 0.406 | 12900 | 57400 | 29000 | 129000 | 2400 | 1.844 |
| B23 | 1.875 | 47.625 | 3.219 | 81.760 | 0.875 | 22.220 | 0.968 | 0.439 | 13200 | 58700 | 31000 | 138000 | 2300 | 1.906 |
| B24 | 1.938 | 49.213 | 3.219 | 81.760 | 0.875 | 22.220 | 0.942 | 0.427 | 13200 | 58700 | 31000 | 138000 | 2300 | 1.969 |
| B25 | 2.000 | 50.800 | 3.344 | 84.940 | 0.875 | 22.220 | 1.017 | 0.461 | 13400 | 59600 | 32500 | 145000 | 2200 | 2.031 |
| B26 | 2.063 | 52.388 | 3.344 | 84.940 | 0.875 | 22.220 | 0.986 | 0.447 | 13400 | 59600 | 32500 | 145000 | 2200 | 2.094 |
| B27 | 2.125 | 53.975 | 3.594 | 91.290 | 0.875 | 22.225 | 1.166 | 0.529 | 13600 | 60000 | 34000 | 151000 | 2100 | 2.156 |
| **B28** | 2.188 | 55.563 | 3.594 | 91.290 | 0.875 | 22.220 | 1.140 | 0.517 | 13600 | 60000 | 34000 | 151000 | 2100 | 2.219 |
| B29 | 2.250 | 57.150 | 3.719 | 80.747 | 0.875 | 22.220 | 1.235 | 0.560 | 14000 | 62000 | 36000 | 160000 | 2000 | 2.281 |
| B30 | 2.313 | 58.738 | 3.719 | 94.460 | 0.875 | 22.220 | 1.191 | 0.540 | 14000 | 62000 | 36000 | 160000 | 2000 | 2.344 |
| B31 | 2.375 | 60.325 | 3.844 | 97.640 | 0.875 | 22.220 | 1.270 | 0.576 | 14200 | 63000 | 37500 | 167000 | 1900 | 2.406 |
| **B32** | 2.438 | 61.913 | 3.844 | 97.640 | 0.875 | 22.225 | 1.237 | 0.561 | 14200 | 63000 | 37500 | 167000 | 1900 | 2.469 |
| B33 | 2.500 | 63.500 | 3.969 | 100.813 | 0.875 | 22.225 | 1.343 | 0.609 | 14300 | 64000 | 39500 | 176000 | 1800 | 2.531 |
| B34 | 2.563 | 65.088 | 3.969 | 100.813 | 0.875 | 22.225 | 1.299 | 0.589 | 14300 | 64000 | 39500 | 176000 | 1800 | 2.594 |
| B35 | 2.625 | 66.675 | 4.344 | 110.340 | 1.125 | 28.580 | 2.229 | 1.011 | 21100 | 94000 | 54000 | 240000 | 1700 | 2.656 |
| **B36** | 2.688 | 68.263 | 4.344 | 110.340 | 1.125 | 28.580 | 2.152 | 0.976 | 21100 | 94000 | 54000 | 240000 | 1700 | 2.719 |
| B37 | 2.750 | 69.850 | 4.469 | 113.510 | 1.125 | 28.580 | 2.265 | 1.027 | 21400 | 95000 | 57000 | 254000 | 1600 | 2.781 |
| B38 | 2.813 | 71.438 | 4.469 | 113.510 | 1.125 | 28.580 | 2.216 | 1.005 | 21400 | 95000 | 57000 | 254000 | 1600 | 2.844 |
| B39 | 2.938 | 74.613 | 4.594 | 116.690 | 1.125 | 28.580 | 2.428 | 1.101 | 21400 | 95000 | 57000 | 254000 | 1600 | 2.969 |
| B40 | 3.000 | 76.200 | 4.719 | 119.860 | 1.125 | 28.580 | 2.578 | 1.169 | 22100 | 98000 | 59000 | 262000 | 1500 | 3.031 |
| B41 | 3.250 | 82.550 | 4.969 | 126.210 | 1.125 | 28.580 | 2.683 | 1.217 | 22300 | 99000 | 62000 | 276000 | 1500 | 3.281 |
| B42 | 3.500 | 88.900 | 5.219 | 132.560 | 1.125 | 28.580 | 2.847 | 1.291 | 23100 | 103000 | 68000 | 302000 | 1300 | 3.531 |

# Ball Thrust Bearings
## D SERIES

- Banded assembly – Non-separable
- Medium cross section
- Grooved race
- Single direction
- Oil hole in band – Standard
- Dimensionally interchangeable with GT, FT or RTL series
- Speed limit shown is for oil lubrication




- Part numbers shown in bold may **not** be readily available, please call to check availability.

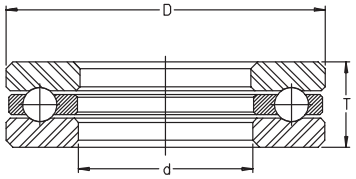
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.

For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm | $A_1$ BORE inch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D1 | 0.500 | 12.700 | 1.219 | 30.963 | 0.563 | 14.300 | 0.12 | 54 | 3850 | 17100 | 5600 | 24900 | 7000 | 0.531 |
| D2 | 0.563 | 14.288 | 1.219 | 30.963 | 0.563 | 14.300 | 0.11 | 51 | 3850 | 17100 | 5600 | 24900 | 7000 | 0.594 |
| D3 | 0.625 | 15.875 | 1.344 | 34.138 | 0.563 | 14.300 | 0.14 | 63 | 4100 | 18200 | 6700 | 29800 | 6000 | 0.656 |
| D4 | 0.688 | 17.463 | 1.344 | 34.138 | 0.563 | 14.300 | 0.13 | 60 | 4100 | 18200 | 6700 | 29800 | 6000 | 0.719 |
| D5 | 0.750 | 19.050 | 1.469 | 37.313 | 0.563 | 14.300 | 0.15 | 70 | 4250 | 18900 | 7300 | 32500 | 5500 | 0.781 |
| D6 | 0.813 | 20.638 | 1.469 | 37.313 | 0.563 | 14.300 | 0.15 | 66 | 4250 | 18900 | 7300 | 32500 | 5500 | 0.844 |
| D7 | 0.875 | 22.225 | 1.844 | 46.838 | 0.625 | 15.875 | 0.28 | 127 | 6600 | 29400 | 12200 | 54000 | 4100 | 0.906 |
| D8 | 0.938 | 23.813 | 1.844 | 46.838 | 0.625 | 15.875 | 0.27 | 122 | 6600 | 29400 | 12200 | 54000 | 4100 | 0.969 |
| D9 | 1.000 | 25.400 | 1.969 | 50.013 | 0.625 | 15.875 | 0.3 | 138 | 6700 | 29800 | 13100 | 58000 | 3800 | 1.031 |
| D10 | 1.063 | 26.988 | 1.969 | 50.013 | 0.625 | 15.875 | 0.29 | 133 | 6700 | 29800 | 13100 | 58000 | 3800 | 1.094 |
| D11 | 1.125 | 28.575 | 2.094 | 53.188 | 0.625 | 15.875 | 0.33 | 148 | 6900 | 30700 | 14000 | 62000 | 3600 | 1.156 |
| D12 | 1.188 | 30.163 | 2.094 | 53.188 | 0.625 | 15.875 | 0.31 | 142 | 6900 | 30700 | 14000 | 62000 | 3600 | 1.219 |
| D13 | 1.250 | 31.750 | 2.344 | 59.538 | 0.625 | 15.875 | 0.4 | 181 | 7200 | 32000 | 15700 | 70000 | 3200 | 1.281 |
| D14 | 1.313 | 33.338 | 2.344 | 59.538 | 0.625 | 15.875 | 0.39 | 176 | 7200 | 32000 | 15700 | 70000 | 3200 | 1.344 |
| D15 | 1.375 | 34.925 | 2.469 | 62.713 | 0.625 | 15.875 | 0.43 | 196 | 7300 | 32500 | 16600 | 74000 | 3000 | 1.406 |
| D16 | 1.438 | 36.513 | 2.469 | 65.888 | 0.625 | 15.875 | 0.42 | 190 | 7300 | 32500 | 16600 | 74000 | 3000 | 1.469 |
| D17 | 1.500 | 38.100 | 2.594 | 65.888 | 0.625 | 15.875 | 0.46 | 209 | 7700 | 34000 | 18300 | 81000 | 2800 | 1.531 |
| D17A1 | 1.500 | 38.100 | 2.545 | 64.643 | 0.629 | 15.99 | 0.46 | 209 | 7700 | 34000 | 18300 | 81000 | 2800 | 1.521 |
| D18 | 1.563 | 39.688 | 2.594 | 65.888 | 0.625 | 15.875 | 0.45 | 204 | 7700 | 34000 | 18300 | 81000 | 2800 | 1.594 |
| D19 | 1.625 | 41.275 | 2.969 | 75.413 | 0.813 | 20.650 | 0.83 | 378 | 10300 | 46000 | 25000 | 111000 | 2400 | 1.656 |
| D20 | 1.688 | 42.863 | 2.969 | 75.413 | 0.813 | 20.650 | 0.81 | 366 | 10300 | 46000 | 25000 | 111000 | 2400 | 1.719 |
| D21 | 1.750 | 44.450 | 3.094 | 78.588 | 0.813 | 20.650 | 0.9 | 406 | 10600 | 47000 | 26500 | 118000 | 2300 | 1.781 |
| D22 | 1.813 | 46.038 | 3.094 | 78.588 | 0.813 | 20.650 | 0.86 | 388 | 10600 | 47000 | 26500 | 118000 | 2300 | 1.844 |
| D23 | 1.875 | 47.625 | 3.219 | 81.763 | 0.813 | 20.650 | 0.94 | 426 | 10800 | 48000 | 27500 | 122000 | 2200 | 1.906 |
| D24 | 1.938 | 49.213 | 3.219 | 81.763 | 0.813 | 20.650 | 0.91 | 412 | 10800 | 48000 | 27500 | 122000 | 2200 | 1.969 |
| D25 | 2.000 | 50.800 | 3.344 | 84.938 | 0.813 | 20.650 | 0.96 | 433 | 10800 | 48000 | 29000 | 129000 | 2100 | 2.031 |
| D26 | 2.063 | 52.388 | 3.344 | 84.938 | 0.813 | 20.650 | 0.94 | 424 | 10800 | 48000 | 29000 | 129000 | 2100 | 2.094 |
| D27 | 2.125 | 53.975 | 3.594 | 91.288 | 0.813 | 20.650 | 1.12 | 510 | 11100 | 49000 | 30000 | 133000 | 2000 | 2.156 |
| D28 | 2.188 | 55.563 | 3.594 | 91.288 | 0.813 | 20.650 | 1.09 | 495 | 11100 | 49000 | 30000 | 133000 | 2000 | 2.219 |
| D29 | 2.250 | 57.150 | 3.719 | 94.463 | 0.813 | 20.650 | 1.17 | 530 | 11200 | 50000 | 31500 | 140000 | 1900 | 2.281 |
| D30 | 2.313 | 58.738 | 3.719 | 94.463 | 0.813 | 20.650 | 1.13 | 514 | 11200 | 50000 | 31500 | 140000 | 1900 | 2.344 |
| D31 | 2.375 | 60.325 | 3.844 | 97.638 | 0.813 | 20.650 | 1.22 | 551 | 11500 | 51000 | 32500 | 145000 | 1900 | 2.406 |
| D32 | 2.438 | 61.913 | 3.844 | 97.638 | 0.813 | 20.650 | 1.19 | 538 | 11500 | 51000 | 32500 | 145000 | 1900 | 2.469 |
| D33 | 2.500 | 63.500 | 3.969 | 100.813 | 0.813 | 20.650 | 1.28 | 580 | 11500 | 51000 | 34000 | 151000 | 1800 | 2.531 |
| D34 | 2.563 | 65.088 | 3.969 | 100.813 | 0.813 | 20.650 | 1.24 | 560 | 11500 | 51000 | 34000 | 151000 | 1800 | 2.594 |
| D35 | 2.625 | 66.675 | 4.344 | 110.338 | 1.000 | 25.400 | 1.95 | 886 | 18100 | 81000 | 49000 | 218000 | 1600 | 2.656 |
| D36 | 2.688 | 68.263 | 4.344 | 110.338 | 1.000 | 25.400 | 1.88 | 854 | 18100 | 81000 | 49000 | 218000 | 1600 | 2.719 |
| D37 | 2.750 | 69.850 | 4.469 | 113.513 | 1.000 | 25.400 | 1.97 | 896 | 18200 | 81000 | 51000 | 227000 | 1600 | 2.781 |
| **D38** | 2.813 | 71.438 | 4.469 | 113.513 | 1.000 | 25.400 | 1.93 | 877 | 18200 | 81000 | 51000 | 227000 | 1600 | 2.844 |
| D39 | 2.938 | 74.613 | 4.594 | 116.688 | 1.000 | 25.400 | 2.11 | 956 | 18200 | 81000 | 51000 | 227000 | 1600 | 2.969 |
| D39-1/2 | 3.000 | 76.200 | 4.594 | 116.688 | 1.000 | 25.400 | 2.05 | 928 | 18200 | 81000 | 51000 | 227000 | 1600 | 3.063 |
| D40 | 3.000 | 76.200 | 4.719 | 119.863 | 1.000 | 25.400 | 2.23 | 1010 | 18700 | 83000 | 54000 | 240000 | 1500 | 3.031 |
| D41 | 3.250 | 82.550 | 4.969 | 126.213 | 1.000 | 25.400 | 2.34 | 1061 | 18800 | 84000 | 56000 | 249000 | 1500 | 3.281 |
| D42 | 3.500 | 88.900 | 5.219 | 132.563 | 1.000 | 25.400 | 2.48 | 1125 | 19200 | 85000 | 60000 | 267000 | 1400 | 3.531 |

# Ball Thrust Bearings
## DL SERIES

- Light cross section
- Grooved race
- Single direction axial ball
- Separable
- Speed limit shown is for oil lubrication



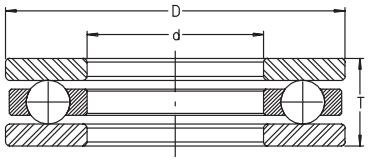

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DL12 | 0.472 | 12 | 0.906 | 23 | 0.354 | 9 | 0.036 | 0.016 | 1510 | 6.7 | 2160 | 9.6 | 11000 |
| DL15 | 0.591 | 15 | 1.024 | 26 | 0.354 | 9 | 0.146 | 0.066 | 1620 | 7.2 | 2600 | 11.6 | 10000 |
| DL17 | 0.669 | 17 | 1.102 | 28 | 0.374 | 9.5 | 0.050 | 0.023 | 1600 | 7.1 | 2600 | 11.6 | 9000 |
| DL20 | 0.787 | 20 | 1.535 | 39 | 0.520 | 13.2 | 0.120 | 0.054 | 2380 | 10.6 | 4350 | 19.4 | 7000 |
| DL25 | 0.984 | 25 | 1.772 | 45 | 0.551 | 14 | 0.199 | 0.090 | 3750 | 16.6 | 6600 | 29.5 | 5500 |
| **DL30** | 1.181 | 30 | 2.087 | 53 | 0.610 | 15.5 | 0.280 | 0.127 | 3900 | 17.4 | 7800 | 34.5 | 4800 |
| **DL35** | 1.378 | 35 | 2.244 | 57 | 0.681 | 17.3 | 0.367 | 0.166 | 6200 | 27.5 | 12100 | 54.0 | 4400 |
| DL40 | 1.575 | 40 | 2.520 | 64 | 0.748 | 19 | 0.500 | 0.227 | 6000 | 26.5 | 12100 | 54.0 | 4000 |
| **DL45** | 1.772 | 45 | 2.835 | 72 | 0.886 | 22.5 | 0.777 | 0.352 | 9400 | 42.0 | 21100 | 94.0 | 3300 |
| **DL50** | 1.969 | 50 | 3.150 | 80 | 0.965 | 24.5 | 1.300 | 0.590 | 12100 | 54.0 | 27000 | 121.0 | 3100 |
| **DL55** | 2.165 | 55 | 3.465 | 88 | 1.102 | 28 | 1.409 | 0.639 | 10900 | 48.5 | 23800 | 106.0 | 2800 |
| **DL60** | 2.362 | 60 | 3.858 | 98 | 1.201 | 30.5 | 2.205 | 1.000 | 12400 | 55.0 | 30500 | 136.0 | 2500 |
| DL65 | 2.559 | 65 | 4.055 | 103 | 1.240 | 31.5 | 2.163 | 0.981 | 14800 | 66.0 | 35500 | 158.0 | 2400 |
| DL70 | 2.756 | 70 | 4.252 | 108 | 1.260 | 32 | 2.403 | 1.090 | 16400 | 73.0 | 42000 | 187.0 | 2200 |
| **DL75** | 2.953 | 75 | 4.409 | 112 | 1.280 | 32.5 | 2.489 | 1.129 | 16900 | 75.0 | 44500 | 197.0 | 2100 |
| **DL80** | 3.150 | 80 | 4.646 | 118 | 1.339 | 34 | 2.800 | 1.270 | 19600 | 87.0 | 50500 | 225.0 | 2000 |
| **DL85** | 3.347 | 85 | 4.921 | 125 | 1.339 | 34 | 3.105 | 1.408 | 24100 | 107.0 | 62000 | 275.0 | 1900 |
| **DL90** | 3.543 | 90 | 5.276 | 134 | 1.496 | 38 | 3.991 | 1.810 | 23600 | 105.0 | 62000 | 275.0 | 1800 |
| **DL95** | 3.740 | 95 | 5.512 | 140 | 1.496 | 38 | 4.399 | 1.995 | 29500 | 132.0 | 80000 | 355.0 | 1700 |
| **DL100** | 3.937 | 100 | 6.063 | 154 | 1.634 | 41.5 | 5.402 | 2.450 | 31000 | 137.0 | 80000 | 355.0 | 1600 |

# Ball Thrust Bearings
## EW SERIES

- Light cross section
- Flat race
- Single direction
- Speed limit shown is for oil lubrication

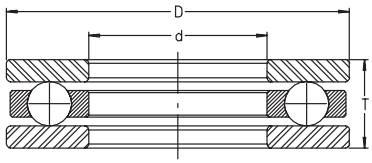



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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EW–1/4 | 0.250 | 6.350 | 0.656 | 16.662 | 0.250 | 6.350 | 0.020 | 9.07 | 285 | 1260 | 101 | 450 | 18000 |
| EW–5/16 | 0.313 | 7.938 | 0.750 | 19.050 | 0.250 | 6.350 | 0.018 | 7.94 | 325 | 1440 | 134 | 600 | 15000 |
| EW–3/8 | 0.375 | 9.525 | 0.813 | 20.650 | 0.250 | 6.350 | 0.019 | 8.77 | 310 | 1390 | 134 | 600 | 13000 |
| EW–1/2 | 0.500 | 12.700 | 0.969 | 24.610 | 0.250 | 6.350 | 0.026 | 11.79 | 390 | 1740 | 201 | 900 | 11000 |
| EW–5/8 | 0.625 | 15.875 | 1.094 | 27.788 | 0.281 | 7.140 | 0.033 | 15.00 | 520 | 2320 | 260 | 1170 | 9500 |
| EW–3/4 | 0.750 | 19.050 | 1.313 | 33.350 | 0.281 | 7.140 | 0.047 | 21.11 | 550 | 2470 | 315 | 1400 | 7500 |
| EW–7/8 | 0.875 | 22.225 | 1.500 | 38.100 | 0.375 | 9.525 | 0.085 | 38.38 | 780 | 3450 | 455 | 2010 | 6500 |
| EW1 | 1.000 | 25.400 | 1.625 | 41.280 | 0.375 | 9.530 | 0.092 | 41.90 | 760 | 3350 | 455 | 2010 | 6000 |
| EW1–1/8 | 1.125 | 28.575 | 1.750 | 44.450 | 0.375 | 9.530 | 0.102 | 46.25 | 810 | 3600 | 530 | 2350 | 5500 |
| EW1–1/4 | 1.250 | 31.750 | 2.063 | 52.400 | 0.500 | 12.700 | 0.204 | 92.67 | 1300 | 5800 | 810 | 3600 | 4800 |
| EW1–3/8 | 1.375 | 34.925 | 2.188 | 55.575 | 0.500 | 12.700 | 0.222 | 100.79 | 1400 | 6200 | 940 | 4200 | 4400 |
| EW1–1/2 | 1.500 | 38.100 | 2.313 | 58.750 | 0.500 | 12.700 | 0.242 | 109.95 | 1580 | 7000 | 1140 | 5100 | 4300 |
| EW1–5/8 | 1.625 | 41.275 | 2.438 | 61.930 | 0.500 | 12.700 | 0.254 | 114.99 | 1470 | 6500 | 1070 | 4750 | 3900 |
| EW1–3/4 | 1.750 | 44.450 | 2.625 | 66.675 | 0.625 | 15.875 | 0.387 | 175.66 | 1840 | 8200 | 1360 | 6000 | 3600 |
| EW1–7/8 | 1.875 | 47.625 | 2.750 | 69.850 | 0.625 | 15.875 | 0.406 | 184.34 | 1810 | 8100 | 1360 | 6000 | 3400 |
| EW2 | 2.000 | 50.800 | 2.875 | 73.020 | 0.625 | 15.875 | 0.427 | 193.62 | 1780 | 7900 | 1360 | 6000 | 3200 |
| EW2–1/4 | 2.250 | 57.150 | 3.125 | 79.380 | 0.625 | 15.875 | 0.471 | 213.38 | 1870 | 8300 | 1530 | 6800 | 2900 |

# Ball Thrust Bearings
## FT SERIES

- Medium cross section
- Flat race inch series
- Single direction
- Dimensionally interchangeable with D, GT, and RTL series
- Separable axial contact
- Speed limit shown is for oil lubrication




- Part numbers shown in bold may **not** be readily available, please call to check availability.

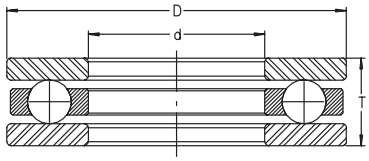
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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **FT1** | 0.500 | 12.700 | 1.219 | 30.963 | 0.563 | 14.300 | 0.121 | 0.055 | 750 | 3350 | 375 | 1680 | 6500 |
| FT2 | 0.563 | 14.288 | 1.219 | 30.963 | 0.563 | 14.300 | 0.115 | 0.052 | 740 | 3300 | 375 | 1680 | 6500 |
| FT3 | 0.625 | 15.875 | 1.344 | 34.138 | 0.563 | 14.300 | 0.139 | 0.063 | 770 | 3400 | 415 | 1850 | 6000 |
| **FT4** | 0.688 | 17.463 | 1.344 | 34.138 | 0.563 | 14.300 | 0.130 | 0.059 | 770 | 3400 | 415 | 1850 | 6000 |
| FT5 | 0.750 | 19.050 | 1.469 | 37.313 | 0.563 | 14.300 | 0.159 | 0.072 | 880 | 3800 | 530 | 2350 | 5000 |
| FT6 | 0.813 | 20.638 | 1.469 | 37.313 | 0.563 | 14.300 | 0.150 | 0.068 | 880 | 3900 | 530 | 2350 | 5500 |
| FT7 | 0.875 | 22.225 | 1.844 | 46.838 | 0.625 | 15.875 | 0.278 | 0.126 | 1520 | 6700 | 940 | 4200 | 4300 |
| **FT8** | 0.938 | 23.813 | 1.844 | 46.838 | 0.625 | 15.875 | 0.267 | 0.121 | 1520 | 6700 | 940 | 4200 | 4300 |
| FT9 | 1.000 | 25.400 | 1.969 | 50.013 | 0.625 | 15.875 | 0.300 | 0.136 | 1520 | 6700 | 940 | 4200 | 4300 |
| FT10 | 1.063 | 26.988 | 1.969 | 50.013 | 0.625 | 15.875 | 0.289 | 0.131 | 1520 | 6700 | 940 | 4200 | 4300 |
| FT11 | 1.125 | 28.575 | 2.094 | 53.188 | 0.625 | 15.875 | 0.324 | 0.147 | 1510 | 6700 | 1010 | 4500 | 3600 |
| FT12 | 1.188 | 30.163 | 2.094 | 53.188 | 0.625 | 15.875 | 0.311 | 0.141 | 1510 | 6700 | 1010 | 4500 | 3600 |
| FT13 | 1.250 | 31.750 | 2.344 | 59.538 | 0.625 | 15.875 | 0.404 | 0.183 | 1520 | 6800 | 1070 | 4750 | 3300 |
| **FT14** | 1.313 | 33.338 | 2.344 | 59.538 | 0.625 | 15.875 | 0.388 | 0.176 | 1520 | 6800 | 1070 | 4750 | 3300 |
| FT15 | 1.375 | 34.925 | 2.469 | 62.713 | 0.625 | 15.875 | 0.432 | 0.196 | 1610 | 7200 | 1210 | 5400 | 3000 |
| **FT16** | 1.438 | 36.513 | 2.469 | 62.713 | 0.625 | 15.875 | 0.417 | 0.189 | 1610 | 7200 | 1210 | 5400 | 3000 |
| FT17 | 1.500 | 38.100 | 2.594 | 65.888 | 0.625 | 15.875 | 0.441 | 0.200 | 1690 | 7500 | 1340 | 6000 | 2800 |
| **FT18** | 1.563 | 39.688 | 2.594 | 65.888 | 0.625 | 15.875 | 0.421 | 0.191 | 1690 | 7500 | 1340 | 6000 | 2800 |
| FT19 | 1.625 | 41.275 | 2.969 | 75.413 | 0.813 | 20.638 | 0.842 | 0.382 | 2390 | 10600 | 1890 | 8400 | 2400 |
| **FT20** | 1.688 | 42.863 | 2.969 | 75.413 | 0.813 | 20.638 | 0.818 | 0.371 | 2450 | 10900 | 1890 | 8400 | 2600 |
| FT21 | 1.750 | 44.450 | 3.094 | 78.588 | 0.813 | 20.638 | 0.893 | 0.405 | 2600 | 11500 | 2100 | 9300 | 2400 |
| **FT22** | 1.813 | 46.038 | 3.094 | 78.588 | 0.813 | 20.638 | 0.864 | 0.392 | 2600 | 11500 | 2100 | 9300 | 2400 |
| FT23 | 1.875 | 47.625 | 3.219 | 81.763 | 0.813 | 20.638 | 0.935 | 0.424 | 2550 | 11300 | 2100 | 9300 | 2300 |
| FT24 | 1.938 | 49.213 | 3.219 | 81.763 | 0.813 | 20.638 | 0.904 | 0.410 | 2600 | 11600 | 2100 | 9300 | 2500 |
| FT25 | 2.000 | 50.800 | 3.344 | 84.938 | 0.813 | 20.638 | 0.977 | 0.443 | 2440 | 10900 | 2100 | 9300 | 2000 |
| **FT26** | 2.063 | 52.388 | 3.344 | 84.938 | 0.813 | 20.638 | 0.944 | 0.428 | 2500 | 11200 | 2100 | 9300 | 2200 |
| FT27 | 2.125 | 53.975 | 3.594 | 91.288 | 0.813 | 20.638 | 1.085 | 0.492 | 3350 | 14900 | 2700 | 12100 | 2000 |
| **FT28** | 2.188 | 55.563 | 3.594 | 91.288 | 0.813 | 20.638 | 1.054 | 0.478 | 3350 | 14900 | 2700 | 12100 | 2000 |
| FT29 | 2.250 | 57.150 | 3.719 | 94.463 | 0.813 | 20.638 | 1.140 | 0.517 | 3550 | 15900 | 3000 | 13400 | 2000 |
| **FT30** | 2.313 | 58.738 | 3.719 | 94.463 | 0.813 | 20.638 | 1.107 | 0.502 | 3500 | 15600 | 3000 | 13400 | 1900 |
| **FT31** | 2.375 | 60.325 | 3.844 | 97.638 | 0.813 | 20.638 | 1.173 | 0.532 | 3400 | 15100 | 2850 | 12800 | 1900 |
| **FT32** | 2.438 | 61.913 | 3.844 | 97.638 | 0.813 | 20.638 | 1.140 | 0.517 | 3400 | 15100 | 2850 | 12800 | 1900 |
| **FT33** | 2.500 | 63.500 | 3.969 | 100.813 | 0.813 | 20.638 | 1.233 | 0.559 | 3600 | 15900 | 3150 | 14100 | 1800 |
| FT34 | 2.563 | 65.088 | 3.969 | 100.813 | 0.813 | 20.638 | 1.195 | 0.542 | 3600 | 15900 | 3150 | 14100 | 1800 |
| **FT35** | 2.625 | 66.675 | 4.344 | 110.338 | 1.000 | 25.400 | 2.018 | 0.915 | 3650 | 16200 | 3450 | 15400 | 1600 |
| **FT36** | 2.688 | 68.263 | 4.344 | 110.338 | 1.000 | 25.400 | 1.967 | 0.892 | 3650 | 16200 | 3450 | 15400 | 1600 |
| **FT37** | 2.750 | 69.850 | 4.469 | 113.513 | 1.000 | 25.400 | 2.090 | 0.948 | 3800 | 16800 | 3600 | 16100 | 1600 |
| **FT38** | 2.813 | 71.438 | 4.469 | 113.513 | 1.000 | 25.400 | 2.037 | 0.924 | 3800 | 16900 | 3600 | 16100 | 1600 |
| **FT39** | 2.875 | 73.025 | 4.594 | 116.688 | 1.000 | 25.400 | 2.156 | 0.978 | 3800 | 16900 | 3600 | 16100 | 1600 |
| **FT40** | 2.938 | 74.613 | 4.594 | 116.688 | 1.000 | 25.400 | 2.101 | 0.953 | 3750 | 16700 | 3600 | 16100 | 1600 |
| FT41 | 3.000 | 76.200 | 4.719 | 119.863 | 1.000 | 25.400 | 2.000 | 0.907 | 3800 | 17000 | 3750 | 16800 | 1500 |
| **FT42** | 3.063 | 77.788 | 4.719 | 119.863 | 1.000 | 25.400 | 2.172 | 0.985 | 3800 | 17000 | 3750 | 16800 | 1500 |
| **FT43** | 3.250 | 82.550 | 4.969 | 126.213 | 1.000 | 25.400 | 2.000 | 0.907 | 3950 | 17600 | 4100 | 18100 | 1400 |
| **FT44** | 3.500 | 88.900 | 5.219 | 132.563 | 1.000 | 25.400 | 3.001 | 1.361 | 4000 | 17700 | 4250 | 18800 | 1400 |

# Ball Thrust Bearings

## FT0 SERIES

- Light cross section
- Flat race
- Single direction
- Speed limit shown is for oil lubrication

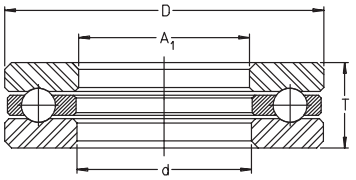



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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FT01 | 0.188 | 4.763 | 0.438 | 11.112 | 0.188 | 4.762 | 0.005 | 2.39 | 103 | 455 | 42 | 187 | 25000 |
| FT02 | 0.188 | 4.763 | 0.531 | 13.493 | 0.188 | 4.762 | 0.005 | 2.30 | 103 | 455 | 42 | 187 | 25000 |
| FT03 | 0.188 | 4.763 | 0.625 | 15.875 | 0.250 | 6.350 | 0.007 | 3.26 | 207 | 920 | 85 | 380 | 19000 |
| FT04 | 0.188 | 4.763 | 0.938 | 23.825 | 0.375 | 9.525 | 0.060 | 27.20 | 415 | 1850 | 201 | 900 | 14000 |
| FT05 | 0.250 | 6.350 | 0.563 | 14.287 | 0.219 | 5.556 | 0.009 | 4.18 | 221 | 980 | 94 | 420 | 19000 |
| FT06 | 0.250 | 6.350 | 0.813 | 20.650 | 0.375 | 9.530 | 0.050 | 22.70 | 390 | 1730 | 184 | 820 | 13000 |
| FT07 | 0.250 | 6.350 | 0.844 | 21.438 | 0.375 | 9.525 | 0.042 | 19.24 | 390 | 1730 | 184 | 820 | 13000 |
| FT08 | 0.313 | 7.938 | 0.625 | 15.875 | 0.250 | 6.350 | 0.012 | 5.66 | 213 | 950 | 94 | 420 | 17000 |
| FT09 | 0.313 | 7.938 | 0.844 | 21.431 | 0.375 | 9.525 | 0.038 | 17.27 | 740 | 3300 | 300 | 1340 | 14000 |
| FT010 | 0.375 | 9.525 | 0.688 | 17.480 | 0.281 | 7.144 | 0.017 | 7.50 | 232 | 1030 | 113 | 500 | 15000 |
| FT011 | 0.375 | 9.525 | 1.031 | 26.190 | 0.500 | 12.700 | 0.080 | 36.11 | 740 | 3300 | 340 | 1510 | 11000 |
| FT012 | 0.375 | 9.525 | 1.094 | 27.790 | 0.500 | 12.700 | 0.100 | 45.40 | 740 | 3300 | 340 | 1510 | 11000 |
| FT013 | 0.438 | 11.113 | 0.813 | 20.650 | 0.313 | 7.950 | 0.025 | 11.25 | 360 | 1600 | 168 | 750 | 13000 |
| FT014 | 0.438 | 11.113 | 1.094 | 27.788 | 0.500 | 12.700 | 0.086 | 38.99 | 730 | 3250 | 340 | 1510 | 10000 |
| FT015 | 0.500 | 12.700 | 0.875 | 22.225 | 0.250 | 6.350 | 0.020 | 9.26 | 390 | 1740 | 201 | 900 | 11000 |
| FT016 | 0.500 | 12.700 | 0.875 | 22.225 | 0.375 | 9.525 | 0.035 | 15.69 | 390 | 1740 | 201 | 900 | 11000 |

# Ball Thrust Bearings
## GT SERIES

- Medium cross section
- Grooved race
- Single direction
- Dimensionally interchangeable with D, FT or RTL series
- Separable axial contact
- Speed limit shown is for oil lubrication



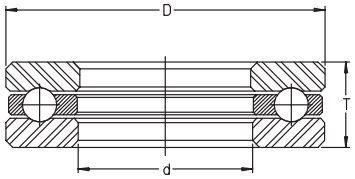

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | BORE $A_1$ inch | BORE $A_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GT1 | 0.500 | 12.700 | 1.219 | 30.963 | 0.563 | 14.300 | 0.126 | 57 | 2330 | 10.4 | 3750 | 16.7 | 8500 | 0.531 | 13.487 |
| GT2 | 0.563 | 14.288 | 1.219 | 30.963 | 0.563 | 14.300 | 0.120 | 54 | 2330 | 10.4 | 3750 | 16.7 | 8500 | 0.594 | 15.088 |
| GT3 | 0.625 | 15.875 | 1.344 | 34.138 | 0.563 | 14.300 | 0.143 | 65 | 2260 | 10.1 | 3750 | 16.7 | 8000 | 0.656 | 16.662 |
| GT4 | 0.688 | 17.463 | 1.344 | 34.138 | 0.563 | 14.300 | 0.135 | 61 | 2260 | 10.1 | 3750 | 16.7 | 8000 | 0.719 | 18.263 |
| GT5 | 0.750 | 19.050 | 1.469 | 37.313 | 0.563 | 14.300 | 0.161 | 73 | 2380 | 10.6 | 4400 | 19.6 | 7000 | 0.781 | 19.837 |
| GT6 | 0.813 | 20.638 | 1.469 | 37.313 | 0.563 | 14.300 | 0.152 | 69 | 2380 | 10.6 | 4400 | 19.6 | 7000 | 0.844 | 21.438 |
| GT7 | 0.875 | 22.225 | 1.844 | 46.838 | 0.625 | 15.875 | 0.279 | 126 | 3750 | 16.7 | 6700 | 29.8 | 5500 | 0.906 | 23.012 |
| GT8 | 0.938 | 23.813 | 1.844 | 46.838 | 0.625 | 15.875 | 0.268 | 121 | 3750 | 16.7 | 6700 | 29.8 | 5500 | 0.969 | 24.613 |
| GT9 | 1.000 | 25.400 | 1.969 | 50.013 | 0.625 | 15.875 | 0.302 | 137 | 3650 | 16.2 | 6700 | 29.8 | 5000 | 1.031 | 26.187 |
| GT10 | 1.063 | 26.988 | 1.969 | 50.013 | 0.625 | 15.875 | 0.289 | 131 | 3650 | 16.2 | 6700 | 29.8 | 5000 | 1.094 | 27.788 |
| GT11 | 1.125 | 28.575 | 2.094 | 53.188 | 0.625 | 15.875 | 0.329 | 149 | 3900 | 17.3 | 7800 | 34.7 | 4800 | 1.156 | 29.362 |
| GT12 | 1.188 | 30.163 | 2.094 | 53.188 | 0.625 | 15.875 | 0.315 | 143 | 3900 | 17.3 | 7800 | 34.7 | 4800 | 1.219 | 30.963 |
| GT13 | 1.250 | 31.750 | 2.344 | 59.538 | 0.625 | 15.875 | 0.414 | 188 | 4350 | 19.3 | 9500 | 42.3 | 4300 | 1.281 | 32.537 |
| GT14 | 1.313 | 33.338 | 2.344 | 59.538 | 0.625 | 15.875 | 0.398 | 181 | 4350 | 19.3 | 9500 | 42.3 | 4300 | 1.344 | 34.138 |
| GT15 | 1.375 | 34.925 | 2.469 | 62.713 | 0.625 | 15.875 | 0.440 | 199 | 4350 | 19.3 | 9500 | 42.3 | 4300 | 1.406 | 35.712 |
| GT16 | 1.438 | 36.513 | 2.469 | 65.888 | 0.625 | 15.875 | 0.483 | 219 | 4350 | 19.3 | 9500 | 42.3 | 4300 | 1.469 | 37.313 |
| GT17 | 1.500 | 38.100 | 2.594 | 65.888 | 0.625 | 15.875 | 0.468 | 212 | 4350 | 19.3 | 10000 | 44.5 | 3800 | 1.531 | 38.887 |
| GT18 | 1.563 | 39.688 | 2.594 | 65.888 | 0.625 | 15.875 | 0.450 | 204 | 4350 | 19.3 | 10000 | 44.5 | 3800 | 1.594 | 40.488 |
| GT19 | 1.625 | 41.275 | 2.969 | 75.413 | 0.813 | 20.638 | 0.850 | 386 | 6100 | 27.1 | 14000 | 62 | 3300 | 1.656 | 42.062 |
| GT20 | 1.688 | 42.863 | 2.969 | 75.413 | 0.813 | 20.638 | 0.824 | 374 | 6100 | 27.1 | 14000 | 62 | 3300 | 1.719 | 43.663 |
| GT21 | 1.750 | 44.450 | 3.094 | 78.588 | 0.813 | 20.638 | 0.893 | 405 | 6100 | 27.1 | 14000 | 62 | 3300 | 1.781 | 45.237 |
| **GT22** | 1.813 | 46.038 | 3.094 | 78.588 | 0.813 | 20.638 | 0.864 | 392 | 6100 | 27.1 | 14000 | 62 | 3300 | 1.844 | 46.838 |
| GT23 | 1.875 | 47.625 | 3.219 | 81.763 | 0.813 | 20.638 | 0.953 | 432 | 6900 | 30.7 | 17500 | 78 | 3000 | 1.906 | 48.412 |
| GT24 | 1.938 | 49.213 | 3.219 | 81.763 | 0.813 | 20.638 | 0.923 | 419 | 6900 | 30.7 | 17500 | 78 | 3000 | 1.969 | 50.013 |
| GT25 | 2.000 | 50.800 | 3.344 | 84.938 | 0.813 | 20.638 | 0.966 | 438 | 9200 | 40.9 | 22600 | 101 | 2800 | 2.031 | 51.587 |
| GT26 | 2.063 | 52.388 | 3.344 | 84.938 | 0.813 | 20.638 | 0.936 | 425 | 9200 | 40.9 | 22600 | 101 | 2800 | 2.094 | 53.188 |
| GT27 | 2.125 | 53.975 | 3.594 | 91.288 | 0.813 | 20.638 | 1.106 | 501 | 9000 | 40 | 22600 | 101 | 2600 | 2.156 | 54.762 |
| GT28 | 2.188 | 55.563 | 3.594 | 91.288 | 0.813 | 20.638 | 1.075 | 487 | 9000 | 40 | 22600 | 101 | 2600 | 2.219 | 56.363 |
| GT29 | 2.250 | 57.150 | 3.719 | 94.463 | 0.813 | 20.638 | 1.148 | 521 | 9000 | 40 | 22600 | 101 | 2600 | 2.281 | 57.937 |
| GT30 | 2.313 | 58.738 | 3.719 | 94.463 | 0.813 | 20.638 | 1.115 | 506 | 9000 | 40 | 22600 | 101 | 2600 | 2.344 | 59.538 |
| GT31 | 2.375 | 60.325 | 3.844 | 97.638 | 0.813 | 20.638 | 1.190 | 540 | 9000 | 40 | 22600 | 101 | 2600 | 2.406 | 61.112 |
| GT32 | 2.438 | 61.913 | 3.844 | 97.638 | 0.813 | 20.638 | 1.155 | 524 | 9000 | 40 | 22600 | 101 | 2600 | 2.469 | 62.713 |
| GT33 | 2.500 | 63.500 | 3.969 | 100.813 | 0.814 | 20.671 | 1.266 | 574 | 10300 | 45.8 | 27500 | 122 | 2400 | 2.531 | 64.287 |
| GT34 | 2.563 | 65.088 | 3.969 | 100.813 | 0.813 | 20.638 | 1.227 | 556 | 10300 | 45.8 | 27500 | 122 | 2400 | 2.594 | 65.888 |
| GT35 | 2.625 | 66.675 | 4.344 | 110.338 | 1.000 | 25.400 | 1.969 | 893 | 12100 | 54 | 31000 | 138 | 2300 | 2.656 | 67.462 |
| GT36 | 2.688 | 68.263 | 4.344 | 110.338 | 1.000 | 25.400 | 1.919 | 870 | 16700 | 74 | 42500 | 189 | 2300 | 2.719 | 69.063 |
| GT37 | 2.750 | 69.850 | 4.469 | 113.513 | 1.000 | 25.400 | 2.041 | 926 | 16900 | 75 | 44500 | 198 | 2100 | 2.781 | 70.637 |
| **GT38** | 2.813 | 71.438 | 4.469 | 113.513 | 1.000 | 25.400 | 1.994 | 904 | 16900 | 75 | 44500 | 198 | 2100 | 2.844 | 72.238 |
| **GT39** | 2.875 | 73.025 | 4.594 | 116.688 | 1.000 | 25.400 | 2.098 | 952 | 16900 | 75 | 44500 | 198 | 2100 | 2.906 | 73.812 |
| GT40 | 2.938 | 74.613 | 4.594 | 116.688 | 1.000 | 25.400 | 2.049 | 929 | 16900 | 75 | 44500 | 198 | 2100 | 2.969 | 75.413 |
| GT41 | 3.000 | 76.200 | 4.719 | 119.863 | 1.000 | 25.400 | 2.156 | 978 | 16600 | 74 | 44500 | 198 | 2000 | 3.031 | 76.987 |
| **GT42** | 3.063 | 77.788 | 4.719 | 119.863 | 1.000 | 25.400 | 2.105 | 955 | 16600 | 74 | 44500 | 198 | 2000 | 3.094 | 78.588 |
| GT43 | 3.250 | 82.550 | 4.969 | 126.213 | 1.000 | 25.400 | 2.271 | 1030 | 16600 | 74 | 44500 | 198 | 2000 | 3.281 | 83.337 |
| GT44 | 3.500 | 88.900 | 5.219 | 132.563 | 1.000 | 25.400 | 2.443 | 1108 | 17700 | 79 | 51000 | 227 | 1800 | 3.531 | 89.687 |

# Ball Thrust Bearings
## W SERIES

- Medium cross section
- Grooved race
- Single direction
- Separable axial contact
- Speed limit shown is for oil lubrication



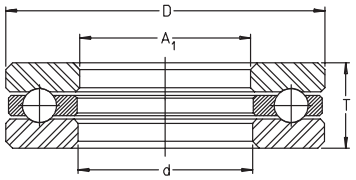

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| W-1/4 | 0.250 | 6.350 | 0.813 | 20.650 | 0.375 | 9.530 | 0.037 | 0.017 | 1170 | 5.2 | 1300 | 5.8 | 15000 |
| W-5/16 | 0.313 | 7.938 | 1.000 | 25.400 | 0.531 | 13.490 | 0.084 | 0.038 | 1910 | 8.5 | 2500 | 11.1 | 11000 |
| W-3/8 | 0.375 | 9.525 | 1.000 | 25.400 | 0.530 | 13.460 | 0.082 | 0.037 | 1910 | 8.5 | 2500 | 11.1 | 11000 |
| W-7/16 | 0.438 | 11.113 | 1.281 | 32.540 | 0.625 | 15.875 | 0.157 | 0.071 | 3150 | 14.1 | 4450 | 19.7 | 8000 |
| W-1/2 | 0.500 | 12.700 | 1.281 | 32.540 | 0.625 | 15.875 | 0.150 | 0.068 | 3150 | 14.1 | 4450 | 19.7 | 8000 |
| **W-9/16** | 0.563 | 14.288 | 1.406 | 35.710 | 0.625 | 15.875 | 0.181 | 0.082 | 4350 | 19.3 | 6300 | 28.0 | 8000 |
| W-5/8 | 0.625 | 15.875 | 1.406 | 35.710 | 0.625 | 15.875 | 0.172 | 0.078 | 4350 | 19.3 | 6300 | 28.0 | 8000 |
| W-3/4 | 0.750 | 19.050 | 1.531 | 38.890 | 0.625 | 15.875 | 0.192 | 0.087 | 3500 | 15. | 5500 | 24.6 | 7000 |
| W-7/8 | 0.875 | 22.225 | 1.656 | 42.060 | 0.625 | 15.875 | 0.221 | 0.1 | 4200 | 18.7 | 7800 | 34.5 | 6000 |
| W1 | 1.000 | 25.400 | 1.781 | 45.240 | 0.625 | 15.875 | 0.234 | 0.106 | 3750 | 16.6 | 6600 | 29.5 | 5500 |
| W1-1/8 | 1.125 | 28.575 | 1.906 | 48.410 | 0.625 | 15.875 | 0.254 | 0.115 | 3650 | 16.3 | 6600 | 29.5 | 5000 |
| W1-1/4 | 1.250 | 31.750 | 2.094 | 53.190 | 0.719 | 18.260 | 0.355 | 0.161 | 6000 | 26.5 | 11200 | 50.0 | 4700 |
| W1-3/8 | 1.375 | 34.925 | 2.219 | 56.360 | 0.719 | 18.260 | 0.379 | 0.172 | 6200 | 27.5 | 12100 | 54.0 | 4400 |
| W1-1/2 | 1.500 | 38.100 | 2.344 | 59.540 | 0.719 | 18.260 | 0.404 | 0.183 | 4800 | 21.5 | 9800 | 43.5 | 4100 |
| W1-5/8 | 1.625 | 41.275 | 2.469 | 62.710 | 0.719 | 18.260 | 0.434 | 0.197 | 6400 | 28.5 | 13900 | 62.0 | 3800 |
| W1-3/4 | 1.750 | 44.450 | 2.688 | 68.280 | 0.755 | 19.180 | 0.547 | 0.248 | 6500 | 29.0 | 14600 | 65.0 | 3600 |
| W1-7/8 | 1.875 | 47.625 | 2.813 | 71.450 | 0.750 | 19.050 | 0.564 | 0.256 | 6200 | 27.5 | 13900 | 62.0 | 3300 |
| W2 | 2.000 | 50.800 | 2.969 | 75.410 | 0.750 | 19.050 | 0.613 | 0.278 | 6200 | 27.5 | 13900 | 62.0 | 3200 |
| W2-1/8 | 2.125 | 53.975 | 3.219 | 81.760 | 0.875 | 22.225 | 0.770 | 0.349 | 8700 | 38.5 | 20000 | 89.0 | 3000 |
| W2-1/4 | 2.250 | 57.150 | 3.344 | 84.940 | 0.875 | 22.225 | 0.931 | 0.422 | 9200 | 41.0 | 22500 | 100.0 | 2800 |
| W2-3/8 | 2.375 | 60.325 | 3.594 | 91.290 | 1.000 | 25.400 | 1.286 | 0.583 | 12600 | 56.0 | 30500 | 136.0 | 2600 |
| W2-1/2 | 2.500 | 63.500 | 3.719 | 94.460 | 1.000 | 25.400 | 1.330 | 0.603 | 12400 | 55.0 | 30500 | 136.0 | 2600 |
| W2-5/8 | 2.625 | 66.675 | 3.844 | 97.640 | 1.000 | 25.400 | 1.400 | 0.635 | 11500 | 51.0 | 27000 | 121.0 | 2500 |
| W2-3/4 | 2.750 | 69.850 | 4.031 | 102.390 | 1.000 | 25.400 | 1.491 | 0.676 | 12100 | 54.0 | 30500 | 136.0 | 2300 |
| W2-7/8 | 2.875 | 73.025 | 4.156 | 105.560 | 1.000 | 25.400 | 1.537 | 0.697 | 12100 | 54.0 | 30500 | 136.0 | 2300 |
| W3 | 3.000 | 76.200 | 4.375 | 111.130 | 1.125 | 28.580 | 2.022 | 0.917 | 16900 | 75.0 | 44500 | 197.0 | 2100 |
| W3-1/8 | 3.125 | 79.375 | 4.500 | 114.300 | 1.125 | 28.580 | 2.077 | 0.942 | 16600 | 74.0 | 44500 | 197.0 | 2000 |
| **W3-1/4** | 3.250 | 82.550 | 4.813 | 122.250 | 1.250 | 31.750 | 2.500 | 1.134 | 20200 | 90.0 | 53000 | 237.0 | 2000 |
| **W3-3/8** | 3.375 | 85.725 | 4.938 | 125.430 | 1.250 | 31.750 | 2.809 | 1.274 | 19600 | 87.0 | 51000 | 225.0 | 1900 |
| W3-1/2 | 3.500 | 88.900 | 5.063 | 128.600 | 1.250 | 31.750 | 2.880 | 1.306 | 19100 | 85.0 | 51000 | 225.0 | 1900 |
| W3-5/8 | 3.625 | 92.075 | 5.188 | 131.780 | 1.250 | 31.750 | 3.199 | 1.451 | 19100 | 85.0 | 51000 | 225.0 | 1800 |
| W3-3/4 | 3.750 | 95.250 | 5.313 | 134.950 | 1.250 | 31.750 | 3.301 | 1.497 | 19100 | 85.0 | 51000 | 225.0 | 1700 |
| **W3-7/8** | 3.875 | 98.425 | 5.688 | 144.480 | 1.375 | 34.930 | 4.059 | 1.841 | 23200 | 103.0 | 62000 | 275.0 | 1700 |
| W4 | 4.000 | 101.600 | 5.813 | 147.650 | 1.375 | 34.930 | 4.148 | 1.881 | 23200 | 103.0 | 62000 | 275.0 | 1600 |
| **W4-1/4** | 4.250 | 107.950 | 6.313 | 160.350 | 1.750 | 44.450 | 6.754 | 3.063 | 33000 | 146.0 | 90000 | 400.0 | 1500 |
| W4-1/2 | 4.500 | 114.300 | 6.500 | 165.100 | 1.750 | 44.450 | 7.850 | 3.560 | 33000 | 146.0 | 90000 | 400.0 | 1400 |
| **W4-3/4** | 4.750 | 120.650 | 7.063 | 179.400 | 2.000 | 50.800 | 8.800 | 3.991 | 44000 | 196.0 | 121000 | 540.0 | 1300 |
| **W5** | 5.000 | 127.000 | 7.313 | 185.750 | 2.000 | 50.800 | 10.103 | 4.582 | 43000 | 192.0 | 121000 | 540.0 | 1300 |
| W5-1/2 | 5.500 | 139.700 | 8.063 | 204.800 | 2.193 | 55.700 | 13.708 | 6.217 | 53000 | 234.0 | 155000 | 690.0 | 1200 |
| **W6** | 6.000 | 152.400 | 8.688 | 220.663 | 2.375 | 60.325 | 16.701 | 7.574 | 55000 | 245.0 | 160000 | 710.0 | 1100 |
| **W6-1/2** | 6.500 | 165.100 | 9.406 | 238.910 | 2.500 | 63.500 | 20.326 | 9.218 | 60000 | 265.0 | 180000 | 800.0 | 1000 |
| **W7** | 7.000 | 177.800 | 10.125 | 257.180 | 2.625 | 66.680 | 25.000 | 11.338 | 66000 | 295.0 | 202000 | 900.0 | 900 |
| **W7-1/2** | 7.500 | 190.500 | 10.875 | 276.220 | 2.750 | 69.850 | 29.977 | 13.595 | 70000 | 310.0 | 225000 | 1000.0 | 850 |
| **W8** | 8.000 | 203.200 | 11.625 | 295.280 | 3.000 | 76.200 | 37.500 | 17.007 | 80000 | 355.0 | 250000 | 1110.0 | 800 |
| **W9** | 9.000 | 228.600 | 13.125 | 333.380 | 3.500 | 88.900 | 56.144 | 25.462 | 115000 | 510.0 | 360000 | 1600.0 | 700 |
| **W10** | 10.000 | 254.000 | 14.625 | 371.475 | 4.000 | 101.600 | 84.500 | 38.322 | 151000 | 670.0 | 488000 | 2170.0 | 650 |
| **W11** | 11.000 | 279.400 | 15.875 | 403.220 | 4.250 | 107.950 | 98.506 | 44.674 | 171000 | 760.0 | 560000 | 2490.0 | 600 |
| **W12** | 12.000 | 304.800 | 17.375 | 441.330 | 4.500 | 114.300 | 130.999 | 59.410 | 191000 | 850.0 | 640000 | 2840.0 | 550 |

# Ball Thrust Bearings
## XW SERIES

- Light cross section
- Grooved race
- Single direction
- Separable axial contact
- Speed limit shown is for oil lubrication



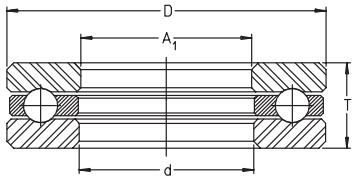

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| XW2 | 2.000 | 50.800 | 3.063 | 77.800 | 0.688 | 17.480 | 0.617 | 0.280 | 7000 | 31 | 17300 | 77 | 3000 |
| XW2-1/8 | 2.125 | 53.975 | 3.188 | 80.980 | 0.688 | 17.480 | 0.690 | 0.313 | 7000 | 31 | 17300 | 77 | 3000 |
| **XW2-1/4** | 2.250 | 57.150 | 3.352 | 85.150 | 0.688 | 17.480 | 0.712 | 0.323 | 5800 | 26 | 15500 | 69 | 2800 |
| **XW2-3/8** | 2.375 | 60.325 | 3.438 | 87.330 | 0.688 | 17.480 | 0.770 | 0.349 | 5800 | 26 | 15500 | 69 | 2800 |
| XW2-1/2 | 2.500 | 63.500 | 3.563 | 90.500 | 0.688 | 17.480 | 0.759 | 0.344 | 6000 | 27 | 16900 | 75 | 2600 |
| **XW2-5/8** | 2.625 | 66.675 | 3.750 | 95.250 | 0.750 | 19.050 | 0.893 | 0.405 | 6500 | 29 | 17300 | 77 | 2500 |
| XW2-3/4 | 2.750 | 69.850 | 3.875 | 98.430 | 0.750 | 19.050 | 0.924 | 0.419 | 6400 | 29 | 17300 | 77 | 2400 |
| **XW2-7/8** | 2.875 | 73.025 | 4.000 | 101.600 | 0.750 | 19.050 | 1.100 | 0.499 | 6700 | 30 | 19100 | 85 | 2300 |
| XW3 | 3.000 | 76.200 | 4.125 | 104.770 | 0.750 | 19.050 | 1.021 | 0.463 | 9400 | 42 | 29200 | 130 | 2200 |
| XW3-1/8 | 3.125 | 79.375 | 4.250 | 107.950 | 0.750 | 19.050 | 1.052 | 0.477 | 9400 | 42 | 29200 | 130 | 2200 |
| XW3-1/4 | 3.250 | 82.550 | 4.375 | 111.130 | 0.750 | 19.050 | 1.069 | 0.485 | 7000 | 31 | 20700 | 92 | 2100 |
| XW3-3/8 | 3.375 | 85.725 | 4.500 | 114.300 | 0.750 | 19.050 | 1.301 | 0.590 | 7000 | 31 | 20700 | 92 | 2100 |
| XW3-1/2 | 3.500 | 88.900 | 4.625 | 117.480 | 0.750 | 19.050 | 1.140 | 0.517 | 7100 | 32 | 22500 | 100 | 1900 |
| **XW3-5/8** | 3.625 | 92.075 | 4.750 | 120.650 | 0.750 | 19.050 | 1.171 | 0.531 | 7100 | 32 | 22500 | 100 | 1900 |
| XW3-3/4 | 3.750 | 95.250 | 4.875 | 123.820 | 0.750 | 19.050 | 1.213 | 0.550 | 7400 | 33 | 24300 | 108 | 1800 |
| XW3-7/8 | 3.875 | 98.425 | 5.000 | 127.000 | 0.750 | 19.050 | 1.244 | 0.564 | 7400 | 33 | 24300 | 108 | 1800 |
| XW4 | 4.000 | 101.600 | 5.250 | 133.350 | 0.875 | 22.225 | 1.707 | 0.774 | 10700 | 48 | 35000 | 155 | 1700 |
| XW4-1/4 | 4.250 | 107.950 | 5.500 | 139.700 | 0.875 | 22.225 | 1.819 | 0.825 | 11700 | 52 | 40000 | 177 | 1600 |
| XW4-1/2 | 4.500 | 114.300 | 5.750 | 146.050 | 1.000 | 25.400 | 2.289 | 1.038 | 12100 | 54 | 45000 | 200 | 1500 |
| XW4-3/4 | 4.750 | 120.650 | 6.000 | 152.400 | 1.000 | 25.400 | 2.386 | 1.082 | 12100 | 54 | 45000 | 200 | 1500 |
| XW5 | 5.000 | 127.000 | 6.500 | 165.100 | 1.018 | 25.850 | 2.926 | 1.327 | 14200 | 63 | 47500 | 211 | 1400 |
| XW5-1/4 | 5.250 | 133.350 | 6.750 | 171.450 | 1.125 | 28.580 | 3.497 | 1.586 | 14200 | 63 | 51000 | 226 | 1300 |
| XW5-1/2 | 5.500 | 139.700 | 7.000 | 177.800 | 1.007 | 25.580 | 3.799 | 1.723 | 14200 | 63 | 51000 | 226 | 1300 |
| XW5-3/4 | 5.750 | 146.050 | 7.250 | 184.150 | 1.125 | 28.580 | 3.782 | 1.715 | 14800 | 66 | 54000 | 241 | 1200 |
| XW6 | 6.000 | 152.400 | 7.625 | 193.680 | 1.250 | 31.750 | 4.772 | 2.164 | 18000 | 80 | 66000 | 295 | 1200 |
| XW6-1/2 | 6.500 | 165.100 | 8.125 | 206.380 | 1.250 | 31.750 | 5.118 | 2.321 | 18900 | 84 | 71000 | 315 | 1100 |
| XW7 | 7.000 | 177.800 | 8.750 | 222.250 | 1.375 | 34.930 | 6.505 | 2.950 | 22300 | 99 | 84000 | 375 | 1000 |
| **XW7-1/2** | 7.500 | 190.500 | 9.250 | 234.950 | 1.375 | 34.930 | 7.100 | 3.220 | 23200 | 103 | 90000 | 400 | 950 |
| XW8 | 8.000 | 203.200 | 10.000 | 254.000 | 1.500 | 38.100 | 9.400 | 4.263 | 19300 | 86 | 71000 | 315 | 850 |
| **XW8-1/2** | 8.500 | 215.900 | 10.500 | 266.700 | 1.500 | 38.100 | 9.744 | 4.419 | 29200 | 130 | 117000 | 520 | 850 |
| **XW9** | 9.000 | 228.600 | 11.250 | 285.750 | 1.875 | 47.625 | 15.199 | 6.893 | 39100 | 174 | 160000 | 710 | 800 |
| **XW9-1/2** | 9.500 | 241.300 | 11.750 | 298.450 | 1.875 | 47.625 | 15.790 | 7.161 | 40700 | 181 | 169000 | 750 | 750 |
| **XW10** | 10.000 | 254.000 | 12.500 | 317.500 | 2.125 | 53.975 | 21.148 | 9.591 | 54000 | 238 | 218000 | 970 | 700 |
| **XW10-1/2** | 10.500 | 266.700 | 13.000 | 330.200 | 2.125 | 53.975 | 22.200 | 10.068 | 54000 | 238 | 232000 | 1030 | 650 |
| **XW11** | 11.000 | 279.400 | 13.750 | 349.250 | 2.375 | 60.320 | 28.702 | 13.017 | 61000 | 270 | 250000 | 1110 | 650 |
| **XW11-1/2** | 11.500 | 292.100 | 14.250 | 361.950 | 2.375 | 60.320 | 32.499 | 14.739 | 61000 | 270 | 265000 | 1180 | 600 |
| **XW12** | 12.000 | 304.800 | 15.000 | 381.000 | 2.500 | 63.500 | 35.620 | 16.154 | 65000 | 290 | 285000 | 1260 | 600 |
| **XW12-1/2** | 12.500 | 317.500 | 15.500 | 393.700 | 2.625 | 66.680 | 43.000 | 19.501 | 69000 | 305 | 300000 | 1340 | 550 |
| **XW13** | 13.000 | 330.200 | 16.250 | 412.750 | 2.750 | 69.850 | 46.188 | 20.947 | 73000 | 325 | 320000 | 1420 | 550 |
| **XW13-1/2** | 13.500 | 342.900 | 16.750 | 425.450 | 2.875 | 73.020 | 54.000 | 24.490 | 81000 | 360 | 360000 | 1600 | 500 |
| **XW14** | 14.000 | 355.600 | 17.500 | 444.500 | 3.000 | 76.200 | 58.128 | 26.362 | 89000 | 395 | 375000 | 1670 | 500 |
| **XW14-1/2** | 14.500 | 368.300 | 18.000 | 457.200 | 3.125 | 79.380 | 68.000 | 30.839 | 98000 | 435 | 415000 | 1850 | 480 |
| **XW15** | 15.000 | 381.000 | 18.750 | 476.250 | 3.250 | 82.550 | 73.124 | 33.163 | 98000 | 435 | 445000 | 1970 | 470 |
| **XW15-1/2** | 15.500 | 393.700 | 19.250 | 488.950 | 3.375 | 85.730 | 83.001 | 37.642 | 107000 | 475 | 460000 | 2040 | 450 |
| **XW16** | 16.000 | 406.400 | 20.000 | 508.000 | 3.500 | 88.900 | 89.071 | 40.395 | 117000 | 520 | 500000 | 2240 | 440 |
| **XW16-1/2** | 16.500 | 419.100 | 20.500 | 520.700 | 3.625 | 92.070 | 105.000 | 47.619 | 117000 | 520 | 535000 | 2380 | 430 |

# Ball Thrust Bearings
## XW SERIES

- Light cross section
- Grooved race
- Single direction
- Separable axial contact
- Speed limit shown is for oil lubrication



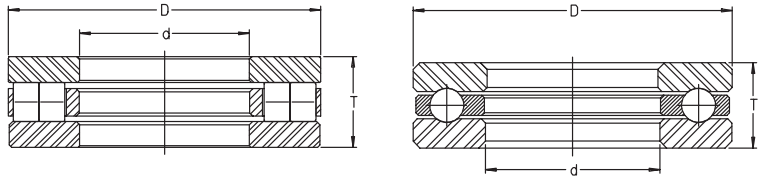

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **XW17** | 17.000 | 431.800 | 21.250 | 539.750 | 3.750 | 95.250 | 108.890 | 49.383 | 130000 | 580 | 590000 | 2610 | 410 |
| **XW17-1/2** | 17.500 | 444.500 | 21.750 | 552.450 | 3.875 | 98.430 | 118.999 | 53.968 | 142000 | 630 | 640000 | 2840 | 400 |
| **XW18** | 18.000 | 457.200 | 22.500 | 571.500 | 4.000 | 101.600 | 130.461 | 59.166 | 135000 | 600 | 640000 | 2840 | 390 |
| **XW18-1/2** | 18.500 | 469.900 | 23.000 | 584.200 | 4.125 | 104.770 | 143.001 | 64.853 | 135000 | 600 | 640000 | 2840 | 380 |
| **XW19** | 19.000 | 482.600 | 23.750 | 603.250 | 4.250 | 107.950 | 154.725 | 70.170 | 164000 | 730 | 750000 | 3330 | 370 |
| **XW19-1/2** | 19.500 | 495.300 | 24.250 | 615.950 | 4.375 | 111.130 | 167.999 | 76.190 | 157000 | 700 | 750000 | 3330 | 360 |
| **XW20** | 20.000 | 508.000 | 24.750 | 628.650 | 4.500 | 114.300 | 174.191 | 78.998 | 164000 | 730 | 800000 | 3540 | 350 |

# Miscellaneous Ball & Roller Thrust Bearings

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Special numbers containing “Y” are banded bearings

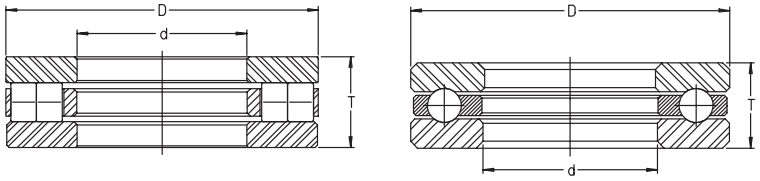



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | CLEARANCE BORE inch | CLEARANCE BORE mm | SEAT RADIUS mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 02X12 | 0.250 | 6.350 | 0.656 | 16.660 | 0.230 | 5.850 | 0.020 | 0.009 | 780 | 3.45 | 840 | 3.75 | 17000 | NA | NA | NA |
| 02P12 | 0.250 | 6.350 | 0.666 | 16.916 | 0.260 | 6.604 | 0.020 | 0.009 | 190 | 0.84 | 75 | 0.335 | 17000 | NA | NA | NA |
| 02PS16 | 0.252 | 6.400 | 0.563 | 14.288 | 0.223 | 5.670 | 0.007 | 0.003 | 220 | 0.98 | 94 | 0.42 | 19000 | NA | NA | NA |
| 03Y01 | 0.312 | 7.925 | 0.515 | 13.081 | 0.255 | 6.477 | 0.011 | 0.005 | 405 | 1.8 | 660 | 2.95 | 14000 | 0.328 | 8.33 | NA |
| FC67686 | 0.313 | 7.938 | 0.625 | 15.875 | 0.204 | 5.180 | 0.051 | 0.023 | 151 | 0.67 | 171 | 0.76 | 19000 | NA | NA | NA |
| 03Y04 | 0.313 | 7.950 | 0.615 | 15.620 | 0.318 | 8.080 | 0.018 | 0.008 | 740 | 3.3 | 1100 | 4.9 | 13000 | 0.323 | 8.1 | NA |
| 03Y49 | 0.314 | 7.976 | 0.515 | 13.081 | 0.109 | 2.769 | 0.004 | 0.002 | 410 | 1.83 | 700 | 3.1 | 14000 | 0.328 | 8.33 | NA |
| 03Y51 | 0.316 | 8.026 | 0.682 | 17.323 | 0.315 | 8.001 | 0.020 | 0.009 | 1150 | 5.1 | 1530 | 6.8 | 12000 | NA | NA | NA |
| 03Y03 | 0.316 | 8.030 | 0.688 | 17.480 | 0.313 | 7.950 | 0.022 | 0.010 | 1190 | 5.3 | 1690 | 7.5 | 12000 | 0.318 | 8.08 | NA |
| 03X16 | 0.329 | 8.357 | 1.192 | 30.277 | 0.801 | 20.345 | 0.143 | 0.065 | 6500 | 29 | 7500 | 33.5 | 10000 | NA | NA | NA |
| 00Z27A | 0.358 | 9.090 | 1.680 | 42.670 | 0.635 | 16.130 | 0.975 | 0.442 | 8100 | 36 | 12600 | 56 | 6000 | NA | NA | NA |
| 03Y50 | 0.375 | 9.525 | 0.600 | 15.240 | 0.068 | 1.724 | 0.013 | 0.006 | 435 | 1.93 | 800 | 3.55 | 12000 | 0.391 | 9.93 | NA |
| 03Y12 | 0.375 | 9.525 | 0.750 | 19.050 | 0.313 | 7.938 | 0.026 | 0.012 | 1210 | 5.4 | 1820 | 8.1 | 10000 | 0.380 | 9.66 | NA |
| HW-3/8 | 0.375 | 9.525 | 1.125 | 28.575 | 0.625 | 15.875 | 0.12 | 0.055 | 2810 | 12.5 | 3330 | 14.8 | 10000 | 0.438 | 11.125 | NA |
| 03Y47 | 0.375 | 9.525 | 1.202 | 30.530 | 0.500 | 12.700 | 0.110 | 0.050 | 3700 | 16.5 | 5050 | 22.4 | 7500 | 0.385 | 9.78 | NA |
| 03Y21 | 0.376 | 9.550 | 0.753 | 19.130 | 0.314 | 7.970 | 0.024 | 0.011 | 1210 | 5.4 | 1820 | 8.1 | 10000 | 0.401 | 10.19 | NA |
| 03Y13 | 0.376 | 9.563 | 0.600 | 15.240 | 0.187 | 4.750 | 0.009 | 0.004 | 435 | 1.93 | 800 | 3.55 | 12000 | 0.391 | 9.93 | NA |
| 03Y40 | 0.378 | 9.601 | 0.943 | 23.952 | 0.313 | 7.938 | 0.040 | 0.018 | 1870 | 8.3 | 3050 | 13.6 | 9000 | 0.380 | 9.65 | NA |
| 03Y07 | 0.380 | 9.652 | 0.640 | 16.256 | 0.380 | 9.652 | 0.020 | 0.009 | 790 | 3.5 | 1260 | 5.6 | 12000 | 0.380 | 9.66 | NA |
| 03Y10 | 0.380 | 9.652 | 0.671 | 17.043 | 0.380 | 9.652 | 0.022 | 0.010 | 790 | 3.5 | 1260 | 5.6 | 11000 | 0.380 | 9.66 | NA |
| 04Y09 | 0.406 | 10.310 | 1.057 | 26.850 | 0.370 | 9.390 | 0.055 | 0.025 | 1870 | 8.3 | 3050 | 13.6 | 8000 | 0.433 | 10.98 | NA |
| 04Y07 | 0.438 | 11.113 | 0.890 | 22.606 | 0.438 | 11.113 | 0.046 | 0.021 | 1780 | 7.9 | 2600 | 11.6 | 9000 | 0.440 | 11.18 | NA |
| 04Y01 | 0.441 | 11.201 | 0.813 | 20.638 | 0.251 | 6.375 | 0.024 | 0.011 | 1260 | 5.6 | 1960 | 8.7 | 9500 | 0.442 | 11.23 | NA |
| 05Y04 | 0.499 | 12.675 | 0.890 | 22.606 | 0.442 | 11.227 | 0.042 | 0.019 | 1300 | 5.8 | 2230 | 9.9 | 8500 | 0.506 | 12.852 | NA |
| 05Y03 | 0.499 | 12.687 | 0.765 | 19.431 | 0.442 | 11.227 | 0.026 | 0.012 | 850 | 3.8 | 1570 | 7 | 9500 | 0.506 | 12.852 | NA |
| 05Y05 | 0.500 | 12.700 | 0.990 | 25.146 | 0.505 | 12.827 | 0.068 | 0.031 | 2450 | 10.9 | 3800 | 16.8 | 8000 | 0.506 | 12.852 | NA |
| 05X04 | 0.500 | 12.700 | 0.995 | 25.273 | 0.380 | 9.652 | 0.062 | 0.028 | 1510 | 6.7 | 2180 | 9.7 | 11000 | 0.511 | 12.979 | NA |
| 05Y06 | 0.500 | 12.700 | 1.122 | 28.500 | 0.500 | 12.700 | 0.093 | 0.042 | 3150 | 14 | 4700 | 20.9 | 7500 | 0.506 | 12.852 | NA |
| 05X44 | 0.500 | 12.700 | 1.187 | 30.150 | 0.442 | 11.227 | 0.088 | 0.040 | 2320 | 10.3 | 3800 | 16.8 | 7000 | 0.561 | 14.249 | NA |
| HW-1/2 | 0.500 | 12.700 | 1.313 | 33.350 | 0.719 | 18.263 | 0.18 | 0.083 | 3420 | 15.2 | 4200 | 18.7 | 8500 | 0.563 | 14.3 | NA |
| 05Y60 | 0.503 | 12.776 | 1.234 | 31.344 | 0.564 | 14.326 | 0.130 | 0.059 | 3850 | 17.1 | 5600 | 24.8 | 7000 | 0.531 | 13.487 | NA |
| 05X101 | 0.504 | 12.800 | 0.969 | 24.610 | 0.230 | 5.840 | 0.031 | 0.014 | 940 | 4.2 | 1390 | 6.2 | 11000 | NA | NA | NA |
| 05Y11 | 0.531 | 13.480 | 0.890 | 22.606 | 0.443 | 11.240 | 0.040 | 0.018 | 1350 | 6 | 2380 | 10.6 | 8500 | 0.536 | 13.614 | NA |
| 05Y74 | 0.533 | 13.538 | 0.800 | 20.320 | 0.187 | 4.750 | 0.022 | 0.010 | 880 | 3.9 | 1640 | 7.3 | 9000 | 0.547 | 13.894 | NA |
| 05Y18 | 0.533 | 13.538 | 0.810 | 20.574 | 0.187 | 4.750 | 0.013 | 0.006 | 660 | 2.95 | 1370 | 6.1 | 9000 | 0.568 | 14.427 | NA |
| F-200284 | 0.555 | 14.100 | 1.451 | 36.850 | 0.435 | 11.050 | 0.112 | 0.051 | 2360 | 10.5 | 4700 | 20.8 | 6000 | 0.799 | 20.295 | NA |
| 05X60 | 0.560 | 14.224 | 1.224 | 31.090 | 0.385 | 9.779 | 0.079 | 0.036 | 2300 | 10.3 | 3800 | 16.8 | 9000 | NA | NA | NA |
| 05Y12 | 0.564 | 14.326 | 1.015 | 25.781 | 0.569 | 14.453 | 0.075 | 0.034 | 1930 | 8.6 | 3300 | 14.6 | 7500 | 0.568 | 14.427 | NA |
| 05XS12 | 0.564 | 14.326 | 1.276 | 32.410 | 0.505 | 12.827 | 0.123 | 0.056 | 2400 | 10.7 | 3400 | 15.2 | 8500 | NA | NA | NA |
| 05X67 | 0.590 | 14.991 | 1.378 | 35.001 | 0.556 | 14.127 | 0.075 | 0.034 | 4350 | 19.4 | 6400 | 28.5 | 8000 | 0.598 | 15.189 | NA |
| FC69992 | 0.591 | 15 | 1.102 | 28 | 0.354 | 9 | 0.057 | 0.026 | 2360 | 10.5 | 3800 | 16.8 | 9500 | 0.630 | 16 | NA |
| 502 | 0.591 | 15 | 1.378 | 35 | 0.787 | 20 | 0.271 | 0.123 | 5060 | 22.5 | 6970 | 31 | 8000 | 0.669 | 17 | 30 |
| 06X77 | 0.595 | 15.113 | 1.028 | 26.111 | 0.359 | 9.119 | 0.068 | 0.031 | 1640 | 7.3 | 2600 | 11.6 | 9700 | NA | NA | NA |
| 06Y42 | 0.625 | 15.875 | 0.995 | 25.273 | 0.442 | 11.227 | 0.049 | 0.022 | 1420 | 6.3 | 2650 | 11.8 | 7500 | 0.653 | 16.586 | NA |
| 06Y12 | 0.627 | 15.926 | 0.917 | 23.290 | 0.187 | 4.750 | 0.015 | 0.007 | 710 | 3.15 | 1570 | 7 | 7500 | 0.641 | 16.281 | NA |
| 06Y60 | 0.627 | 15.926 | 0.917 | 23.292 | 0.187 | 4.750 | 0.020 | 0.009 | 930 | 4.15 | 1960 | 8.7 | 7500 | 0.641 | 16.281 | NA |
| 06X63 | 0.627 | 15.926 | 0.992 | 25.197 | 0.500 | 12.700 | 0.062 | 0.028 | 1020 | 4.55 | 1690 | 7.5 | 9500 | NA | NA | NA |

# Miscellaneous Ball & Roller Thrust Bearings

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Special numbers containing “Y” are banded bearings

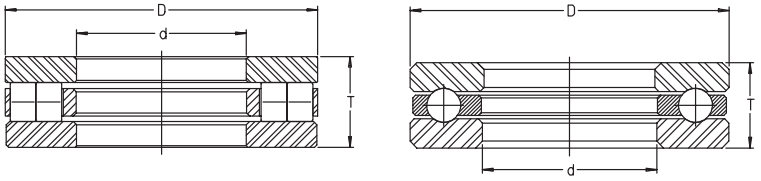



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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | CLEARANCE BORE inch | CLEARANCE BORE mm | SEAT RADIUS mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 06XS07 | 0.627 | 15.926 | 1.276 | 32.410 | 0.505 | 12.830 | 0.135 | 0.061 | 2400 | 10.7 | 3400 | 15.2 | 8500 | NA | NA | NA |
| 06Y33 | 0.627 | 15.926 | 1.421 | 36.093 | 0.458 | 11.633 | 0.126 | 0.057 | 3550 | 15.8 | 6400 | 28.5 | 6000 | 0.650 | 16.510 | NA |
| 06Y49 | 0.628 | 15.951 | 1.354 | 34.391 | 0.583 | 14.810 | 0.057 | 0.026 | 4100 | 18.3 | 6750 | 30 | 6000 | 0.656 | 16.662 | NA |
| 06Y36 | 0.629 | 15.975 | 1.000 | 25.400 | 0.375 | 9.525 | 0.049 | 0.022 | 1440 | 6.4 | 2800 | 12.4 | 7000 | 0.639 | 16.231 | NA |
| 06X65 | 0.629 | 15.975 | 1.406 | 35.712 | 0.630 | 16.010 | 0.174 | 0.079 | 4350 | 19.4 | 6400 | 28.5 | 7500 | NA | NA | NA |
| 06P06 | 0.629 | 15.977 | 1.094 | 27.781 | 0.286 | 7.264 | 0.051 | 0.023 | 520 | 2.31 | 265 | 1.17 | 9000 | NA | NA | NA |
| 06X30 | 0.630 | 16.002 | 1.625 | 41.275 | 0.925 | 23.500 | 0.267 | 0.121 | 9800 | 43.5 | 13700 | 61 | 7000 | NA | NA | NA |
| 06Y05 | 0.656 | 16.650 | 1.140 | 28.956 | 0.500 | 12.700 | 0.079 | 0.036 | 2020 | 9 | 3700 | 16.5 | 6500 | 0.672 | 17.069 | NA |
| 06X62 | 0.659 | 16.738 | 1.378 | 35 | 0.636 | 16.154 | 0.162 | 0.073 | 4150 | 18.4 | 12100 | 54 | 7500 | NA | NA | 30 |
| FC66992.1 | 0.669 | 17 | 1.457 | 37 | 0.276 | 7 | 0.144 | 0.065 | 3550 | 15.8 | 11200 | 50 | 7500 | NA | NA | NA |
| FC66992.5 | 0.669 | 17 | 1.457 | 37 | 0.548 | 13.920 | 0.143 | 0.065 | 3550 | 15.8 | 11200 | 50 | 7500 | NA | NA | NA |
| 503 | 0.669 | 17 | 1.457 | 37 | 0.787 | 20 | 0.240 | 0.109 | 7190 | 32 | 10000 | 44.5 | 7500 | 0.749 | 19 | 35 |
| FC68404 | 0.673 | 17.100 | 1.461 | 37.100 | 0.548 | 13.920 | 0.141 | 0.064 | 4150 | 18.4 | 12100 | 54 | 7500 | NA | NA | NA |
| FC68404.1 | 0.673 | 17.100 | 1.461 | 37.100 | 0.548 | 13.920 | 0.139 | 0.063 | 4150 | 18.4 | 12100 | 54 | 7500 | NA | NA | NA |
| FC69726 | 0.673 | 17.100 | 1.461 | 37.100 | 0.548 | 13.920 | 0.139 | 0.063 | 4150 | 18.4 | 12100 | 54 | 7500 | NA | NA | NA |
| 07Y08 | 0.735 | 18.669 | 1.406 | 35.712 | 0.458 | 11.633 | 0.123 | 0.056 | 3550 | 15.7 | 6400 | 28.5 | 5500 | 0.747 | 18.974 | NA |
| HW-3/4 | 0.750 | 19.050 | 1.813 | 46.050 | 0.875 | 22.225 | 0.410 | 0.188 | 6860 | 30.5 | 10000 | 44.5 | 6000 | 0.813 | 20.650 | NA |
| 07Y03 | 0.753 | 19.126 | 1.125 | 28.575 | 0.625 | 15.875 | 0.088 | 0.040 | 1440 | 6.4 | 3100 | 13.7 | 6500 | 0.755 | 19.177 | NA |
| 07Y51 | 0.753 | 19.126 | 1.469 | 37.306 | 0.568 | 14.427 | 0.165 | 0.075 | 4250 | 18.9 | 7300 | 32.5 | 5500 | 0.771 | 19.583 | NA |
| 07X78 | 0.753 | 19.127 | 1.250 | 31.750 | 0.442 | 11.230 | 0.075 | 0.034 | 2250 | 10 | 3800 | 16.8 | 8000 | 0.755 | 19.177 | NA |
| 07P21 | 0.754 | 19.152 | 1.313 | 33.338 | 0.286 | 7.264 | 0.073 | 0.033 | 550 | 2.46 | 315 | 1.4 | 7500 | NA | NA | NA |
| 07X51 | 0.781 | 19.837 | 1.783 | 45.293 | 1.041 | 26.441 | 0.463 | 0.210 | 5350 | 23.8 | 15700 | 70 | 6000 | 1.021 | 25.938 | NA |
| 1004 | 0.787 | 20 | 1.772 | 45 | 0.906 | 23 | 0.410 | 0.188 | 9330 | 42 | 13490 | 60 | 6000 | 0.795 | 20.193 | NA |
| 504 | 0.787 | 20 | 1.772 | 45 | 0.945 | 24 | 0.437 | 0.198 | 9330 | 41.5 | 13500 | 60 | 6000 | 0.867 | 22 | 40 |
| 08Y24 | 0.813 | 20.638 | 1.483 | 37.670 | 0.575 | 14.600 | 0.135 | 0.061 | 3700 | 16.5 | 7900 | 35 | 5000 | 0.833 | 21.158 | NA |
| 08Y04 | 0.813 | 20.660 | 1.265 | 32.131 | 0.189 | 4.813 | 0.029 | 0.013 | 850 | 3.8 | 2700 | 11.9 | 5500 | 0.836 | 21.234 | NA |
| 08Y42 | 0.814 | 20.680 | 1.093 | 27.760 | 0.250 | 6.350 | 0.033 | 0.015 | 800 | 3.55 | 2430 | 10.8 | 6000 | 0.829 | 21.057 | NA |
| 08Y14 | 0.829 | 21.057 | 1.093 | 27.762 | 0.250 | 6.350 | 0.031 | 0.014 | 800 | 3.55 | 2430 | 10.8 | 6000 | 0.829 | 21.057 | NA |
| 08Y23 | 0.843 | 21.400 | 1.562 | 39.675 | 0.501 | 12.725 | 0.150 | 0.068 | 3050 | 13.6 | 6900 | 30.5 | 4900 | 0.853 | 21.666 | NA |
| 08Y06 | 0.843 | 21.410 | 1.265 | 32.131 | 0.505 | 12.827 | 0.088 | 0.040 | 1750 | 7.8 | 4350 | 19.4 | 5500 | 0.847 | 21.514 | NA |
| 08Y07 | 0.843 | 21.410 | 1.390 | 35.306 | 0.505 | 12.827 | 0.117 | 0.053 | 2380 | 10.6 | 5600 | 25 | 5500 | 0.850 | 21.590 | NA |
| 08X12 | 0.844 | 21.438 | 1.625 | 41.275 | 1.000 | 25.400 | 0.362 | 0.164 | 8000 | 35.5 | 12600 | 56 | 6500 | NA | NA | NA |
| 08Y32 | 0.847 | 21.514 | 1.375 | 34.925 | 0.500 | 12.700 | 0.117 | 0.053 | 2410 | 10.7 | 5600 | 25 | 5500 | 0.850 | 21.590 | NA |
| HW-7/8 | 0.875 | 22.225 | 2.063 | 52.400 | 1.000 | 25.400 | 0.610 | 0.276 | 9100 | 40.5 | 13500 | 60 | 5500 | 0.938 | 23.825 | NA |
| 08X25 | 0.875 | 22.225 | 2.563 | 65.088 | 0.781 | 19.844 | 0.851 | 0.386 | 6500 | 29 | 13900 | 62 | 4600 | 1.500 | 38.100 | NA |
| 08Y38 | 0.878 | 22.301 | 1.515 | 38.481 | 0.380 | 9.652 | 0.104 | 0.047 | 2470 | 11 | 6000 | 26.5 | 4900 | 0.890 | 22.606 | NA |
| FC67327.3 | 0.945 | 24 | 1.496 | 38 | 0.143 | 3.620 | 0.029 | 0.013 | 1980 | 8.8 | 6600 | 29.5 | 6500 | 1.129 | 28.680 | NA |
| FC67327 | 0.945 | 24 | 1.496 | 38 | 0.143 | 3.620 | 0.027 | 0.012 | 1980 | 8.8 | 6600 | 29.5 | 6500 | 1.058 | 26.870 | NA |
| F-233454.4 | 0.984 | 25 | 1.860 | 47.250 | 0.182 | 4.620 | 0.077 | 0.035 | 4750 | 21.1 | 15700 | 70 | 5500 | 1.061 | 26.950 | NA |
| 505 | 0.984 | 25 | 2.284 | 58 | 1.181 | 30 | 0.891 | 0.404 | 14600 | 65 | 22500 | 100 | 4500 | 1.063 | 27 | 45 |
| 09XS28 | 0.990 | 25.146 | 1.772 | 45.009 | 0.553 | 14.046 | 0.181 | 0.082 | 2290 | 10.2 | 7800 | 34.8 | 5500 | NA | NA | NA |
| 10Y25 | 1.000 | 25.400 | 1.500 | 38.100 | 0.625 | 15.875 | 0.143 | 0.065 | 2550 | 11.4 | 6300 | 28 | 4700 | NA | NA | NA |
| FC69708.1 | 1.000 | 25.400 | 1.613 | 40.970 | 0.228 | 5.790 | 0.051 | 0.023 | 3150 | 13.9 | 12100 | 54 | 6000 | NA | NA | NA |
| F-216064.3 | 1.000 | 25.400 | 1.925 | 48.900 | 0.197 | 5 | 0.088 | 0.040 | 4450 | 19.9 | 20500 | 91 | 5500 | 1.122 | 28.500 | NA |
| HW1 | 1.000 | 25.400 | 2.438 | 61.930 | 1.125 | 28.575 | 0.950 | 0.432 | 11700 | 52 | 17800 | 79 | 4800 | 1.125 | 28.575 | NA |
| 10Y03 | 1.031 | 26.180 | 1.640 | 41.656 | 0.630 | 16.002 | 0.192 | 0.087 | 3300 | 14.7 | 7600 | 34 | 4400 | 1.035 | 26.289 | NA |
| 10XS18 | 1.064 | 27.038 | 1.875 | 47.630 | 0.500 | 12.700 | 0.207 | 0.094 | 3350 | 14.9 | 6700 | 30 | 5500 | NA | NA | NA |

# Miscellaneous Ball & Roller Thrust Bearings

- Ball and roller thrust bearings
- Sorted by shaft dimension
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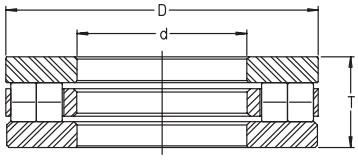


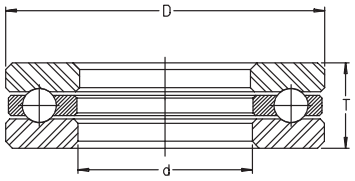

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | CLEARANCE BORE inch | CLEARANCE BORE mm | SEAT RADIUS mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11Y01 | 1.125 | 28.575 | 1.995 | 50.673 | 0.627 | 15.926 | 0.293 | 0.133 | 6200 | 27.5 | 13000 | 58 | 3800 | 1.156 | 29.362 | NA |
| 11RT03 | 1.125 | 28.575 | 2.250 | 57.150 | 0.752 | 19.100 | 1.246 | 0.565 | 22300 | 99 | 39000 | 173 | 5500 | NA | NA | NA |
| 11RT04 | 1.127 | 28.626 | 2.625 | 66.675 | 0.752 | 19.100 | 1.300 | 0.590 | 30500 | 135 | 60000 | 265 | 5000 | NA | NA | NA |
| 11XS10 | 1.129 | 28.677 | 1.750 | 44.450 | 0.380 | 9.652 | 0.106 | 0.048 | 2470 | 11 | 6000 | 26.5 | 5500 | 1.145 | 29.083 | NA |
| 11X09 | 1.135 | 28.829 | 2.175 | 55.245 | 1.062 | 26.975 | 0.635 | 0.288 | 12600 | 56 | 22300 | 99 | 4800 | NA | NA | NA |
| 11X58 | 1.181 | 30 | 1.850 | 47 | 0.433 | 11 | 0.095 | 0.043 | 4250 | 18.8 | 9400 | 42 | 5000 | 1.260 | 32 | NA |
| 3906 | 1.181 | 30 | 2.362 | 60 | 0.748 | 19 | 0.516 | 0.234 | 7980 | 36 | 15100 | 67 | 4200 | 1.189 | 30.201 | NA |
| 1908 | 1.181 | 30 | 2.520 | 64 | 1.260 | 32 | 0.849 | 0.385 | 8,500 | 38 | 17,500 | 78 | 3800 | 1.583 | 40.208 | NA |
| 808 | 1.181 | 30 | 2.520 | 64 | 1.496 | 38 | 0.900 | 0.408 | 8540 | 38 | 17500 | 78 | 3800 | 1.654 | 42.012 | NA |
| 11X04 | 1.181 | 30 | 2.717 | 69 | 1.654 | 42 | 1.248 | 0.566 | 8700 | 38.5 | 17500 | 78 | 4000 | 1.654 | 42.012 | 50 |
| 11YT127E | 1.185 | 30.099 | 2.635 | 66.929 | 0.766 | 19.456 | 0.370 | 0.168 | 7300 | 32.5 | 16600 | 74 | 3100 | NA | NA | NA |
| FC68496.1 | 1.250 | 31.750 | 2.120 | 53.848 | 0.184 | 4.670 | 0.077 | 0.035 | 6100 | 27 | 20900 | 93 | 4700 | 1.383 | 35.130 | NA |
| 12Y23 | 1.250 | 31.750 | 2.750 | 69.850 | 0.813 | 20.638 | 0.833 | 0.378 | 10000 | 44.5 | 22700 | 101 | 3000 | 1.290 | 32.766 | NA |
| 12YT127J | 1.256 | 31.902 | 2.635 | 66.929 | 0.766 | 19.456 | 0.728 | 0.330 | 10600 | 47 | 20500 | 91 | 4000 | NA | NA | NA |
| FC68495 | 1.275 | 32.385 | 2.162 | 54.915 | 0.193 | 4.900 | 0.078 | 0.036 | 6100 | 27.1 | 5500 | 24.5 | 4600 | 1.424 | 36.170 | NA |
| 12Y01 | 1.280 | 32.512 | 1.875 | 47.625 | 1.000 | 25.400 | 0.397 | 0.180 | 3800 | 16.8 | 9400 | 42 | 3700 | 1.285 | 32.639 | NA |
| 12Y03 | 1.281 | 32.542 | 2.140 | 54.356 | 1.005 | 25.527 | 0.560 | 0.254 | 75000 | 33.5 | 15700 | 70 | 3500 | 1.285 | 32.639 | NA |
| F-223428.1 | 1.299 | 33 | 2.047 | 52 | 0.161 | 4.100 | 0.055 | 0.025 | 4800 | 21.3 | 19300 | 86 | 4700 | 1.441 | 36.600 | NA |
| 13YS19SS | 1.299 | 33 | 2.484 | 63.090 | 0.630 | 16.010 | 0.456 | 0.207 | 7300 | 32.5 | 16600 | 74 | 3100 | 1.396 | 35.458 | NA |
| FC67909 | 1.306 | 33.180 | 1.925 | 48.900 | 0.143 | 3.620 | 0.042 | 0.019 | 2900 | 12.8 | 11500 | 51 | 4900 | 1.456 | 36.971 | NA |
| 13X11 | 1.313 | 33.338 | 2.254 | 57.250 | 0.688 | 17.463 | 0.426 | 0.193 | 7400 | 33 | 15500 | 69 | 4400 | 1.320 | 33.528 | NA |
| 13X49 | 1.313 | 33.338 | 2.254 | 57.252 | 0.689 | 17.488 | 0.461 | 0.209 | 7400 | 33 | 15500 | 69 | 4400 | 1.320 | 33.528 | NA |
| 13Y18 | 1.346 | 34.188 | 2.150 | 54.610 | 0.585 | 14.860 | 0.370 | 0.168 | 3350 | 15 | 8800 | 39 | 3400 | 1.346 | 34.188 | NA |
| FC67945 | 1.375 | 34.925 | 2.148 | 54.550 | 0.330 | 8.380 | 0.174 | 0.079 | 4600 | 20.4 | 21600 | 96 | 4500 | NA | NA | NA |
| 3907 | 1.378 | 35 | 2.677 | 68 | 0.906 | 23 | 0.807 | 0.366 | 10800 | 48 | 20500 | 91 | 3900 | 1.386 | 35.204 | NA |
| DM35 | 1.378 | 35 | 2.677 | 68 | 0.965 | 24.500 | 0.809 | 0.367 | 8500 | 38 | 17500 | 78 | 3800 | NA | NA | NA |
| 1007 | 1.378 | 35 | 2.835 | 72 | 1.457 | 37 | 1.660 | 0.754 | 20200 | 90 | 34400 | 153 | 3500 | 1.386 | 35.204 | NA |
| FC68417 | 1.448 | 36.780 | 2.047 | 52 | 0.170 | 4.320 | 0.060 | 0.027 | 4050 | 18 | 16000 | 71 | 4500 | 1.540 | 39.104 | NA |
| FC67907 | 1.455 | 36.950 | 2.126 | 54 | 0.143 | 3.620 | 0.051 | 0.023 | 3400 | 15.2 | 15100 | 67 | 4400 | 1.604 | 40.746 | NA |
| FC68168 | 1.496 | 38 | 2.480 | 63 | 0.197 | 5 | 0.095 | 0.043 | 6300 | 28 | 25500 | 114 | 4000 | 1.691 | 42.950 | NA |
| MW1-1/2 | 1.500 | 38.100 | 2.875 | 73.025 | 1.125 | 28.575 | 1.202 | 0.545 | 13900 | 62 | 26500 | 118 | 3500 | NA | NA | NA |
| 15X55 | 1.535 | 38.994 | 2.438 | 61.918 | 1.605 | 40.770 | 1.063 | 0.482 | 3600 | 16.1 | 8500 | 38 | 4000 | 1.626 | 41.300 | NA |
| F-201422 | 1.575 | 40 | 2.441 | 62 | 0.236 | 6 | 0.112 | 0.051 | 6300 | 28 | 25500 | 114 | 3900 | 1.693 | 43 | NA |
| 508 | 1.575 | 40 | 3.347 | 85 | 1.732 | 44 | 2.706 | 1.227 | 20000 | 89 | 37000 | 163 | 3200 | 1.654 | 42 | 70 |
| 874 08 | 1.575 | 40 | 3.543 | 90 | 0.906 | 23 | 1.647 | 0.747 | 30500 | 135 | 108000 | 480 | 4400 | NA | NA | NA |
| 15X40 | 1.575 | 40 | 3.543 | 90 | 1.449 | 36.800 | 3.173 | 1.439 | 27500 | 123 | 50500 | 224 | 3100 | 1.693 | 43.002 | NA |
| F-217925.1 | 1.591 | 40.400 | 2.149 | 54.580 | 0.143 | 3.620 | 0.037 | 0.017 | 2650 | 11.7 | 10800 | 48 | 4200 | 1.679 | 42.650 | NA |
| F-217926.1 | 1.591 | 40.400 | 2.149 | 54.580 | 0.150 | 3.800 | 0.041 | 0.019 | 2650 | 11.7 | 10800 | 48 | 4200 | 1.679 | 42.650 | NA |
| F-217927.1 | 1.591 | 40.400 | 2.149 | 54.580 | 0.157 | 4 | 0.045 | 0.020 | 2650 | 11.7 | 10800 | 48 | 4200 | 1.679 | 42.650 | NA |
| 16Y03 | 1.656 | 42.054 | 2.640 | 67.056 | 1.005 | 25.520 | 0.739 | 0.335 | 9800 | 43.5 | 21400 | 95 | 2700 | 1.661 | 42.189 | NA |
| FC67908 | 1.695 | 43.060 | 2.496 | 63.400 | 0.137 | 3.470 | 0.064 | 0.029 | 4650 | 20.7 | 24700 | 110 | 3800 | 1.845 | 46.857 | NA |
| FC69100.1 | 1.726 | 43.850 | 2.641 | 67.090 | 0.198 | 5.020 | 0.115 | 0.052 | 6500 | 29 | 25500 | 113 | 3600 | 1.874 | 47.588 | NA |
| FC67996 | 1.744 | 44.310 | 2.434 | 61.830 | 0.150 | 3.810 | 0.062 | 0.028 | 3700 | 16.5 | 17800 | 79 | 3800 | 1.908 | 48.459 | NA |
| 17YS10SS | 1.753 | 44.530 | 3.109 | 78.970 | 0.818 | 20.780 | 0.882 | 0.400 | 10600 | 47 | 26500 | 117 | 2400 | 1.771 | 44.983 | NA |
| 3909 | 1.772 | 45 | 3.347 | 85 | 1.102 | 28 | 1.499 | 0.680 | 17100 | 76 | 34000 | 150 | 3100 | 1.780 | 45.212 | NA |
| 1009 | 1.772 | 45 | 3.740 | 95 | 1.850 | 47 | 3.580 | 1.622 | 29700 | 132 | 51000 | 225 | 2800 | 1.780 | 45.212 | NA |
| 509 | 1.772 | 45 | 3.740 | 95 | 1.969 | 50 | 3.808 | 1.727 | 32000 | 142 | 54000 | 241 | 2800 | 1.850 | 47 | 80 |

# Miscellaneous Ball & Roller Thrust Bearings

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Special numbers containing “Y” are banded bearings



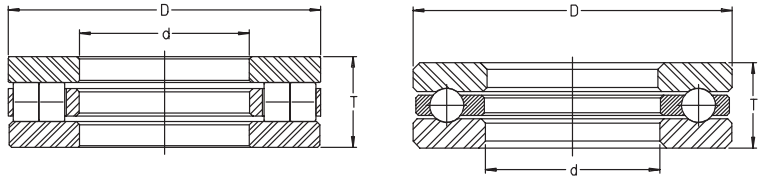




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | CLEARANCE BORE inch | CLEARANCE BORE mm | SEAT RADIUS mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 874 09 | 1.772 | 45 | 3.937 | 100 | 0.984 | 25 | 2.324 | 1.054 | 34500 | 154 | 126000 | 560 | 4000 | NA | NA | NA |
| FC67905 | 1.774 | 45.050 | 2.480 | 63 | 0.143 | 3.620 | 0.064 | 0.029 | 4050 | 18.1 | 19800 | 88 | 3700 | 1.921 | 48.790 | NA |
| FC65785.3 | 1.776 | 45.110 | 2.460 | 62.480 | 0.143 | 3.630 | 0.298 | 0.135 | 3200 | 14.2 | 14400 | 64 | 3700 | 1.887 | 47.929 | NA |
| 17RT11 | 1.776 | 45.110 | 3.635 | 92.329 | 1.125 | 28.575 | 2.515 | 1.140 | 42000 | 188 | 105000 | 465 | 3500 | NA | NA | NA |
| FC67997 | 1.824 | 46.330 | 2.475 | 62.870 | 0.150 | 3.800 | 0.064 | 0.029 | 3850 | 17.2 | 17500 | 78 | 3700 | 1.971 | 50.068 | NA |
| 18Y02 | 1.828 | 46.431 | 2.608 | 66.243 | 0.630 | 16 | 0.404 | 0.183 | 7500 | 33.5 | 18200 | 81 | 2700 | NA | NA | NA |
| 18X15 | 1.876 | 47.650 | 3.250 | 82.550 | 1.515 | 38.480 | 1.674 | 0.759 | 13300 | 59 | 27000 | 119 | 3100 | 1.933 | 49.098 | NA |
| FC69598 | 1.911 | 48.550 | 2.604 | 66.140 | 0.143 | 3.620 | 0.070 | 0.032 | 3750 | 16.7 | 18200 | 81 | 3500 | 2.074 | 52.670 | NA |
| F213342.3 | 1.924 | 48.870 | 2.582 | 65.580 | 0.143 | 3.620 | 0.067 | 0.030 | 4150 | 18.4 | 20900 | 93 | 3500 | 2.014 | 51.160 | NA |
| FC65970.2 | 1.924 | 48.870 | 2.604 | 66.140 | 0.143 | 3.630 | 0.062 | 0.028 | 3350 | 14.9 | 15700 | 70 | 3500 | NA | NA | NA |
| 1912 | 1.969 | 50 | 3.543 | 90 | 1.673 | 42.500 | 2.000 | 0.907 | 12,600 | 56 | 30,500 | 136 | 2600 | 2.370 | 60.198 | NA |
| 3910 | 1.969 | 50 | 3.622 | 92 | 1.221 | 31 | 2.205 | 1.000 | 20900 | 93 | 42000 | 185 | 2800 | 1.976 | 50.190 | NA |
| FC66199.4 | 1.970 | 50.050 | 3.091 | 78.500 | 0.583 | 14.800 | 0.218 | 0.099 | | | 2080 | 9.26 | 3100 | NA | NA | NA |
| FC66935.1 | 1.979 | 50.270 | 2.876 | 73.050 | 0.143 | 3.630 | 0.095 | 0.043 | 3350 | 14.8 | 15700 | 70 | 3200 | 2.161 | 54.890 | NA |
| F226568.4 | 1.988 | 50.500 | 2.953 | 75 | 0.198 | 5.030 | 0.110 | 0.050 | 7300 | 32.5 | 33500 | 148 | 3200 | 2.150 | 54.600 | NA |
| MW2 | 2.000 | 50.800 | 3.688 | 93.680 | 1.375 | 34.925 | 2.249 | 1.020 | 18200 | 81 | 34500 | 154 | 2800 | NA | NA | NA |
| RWCT17 | 2.000 | 50.800 | 4.000 | 101.600 | 1.000 | 25.400 | 2.141 | 0.971 | 37000 | 165 | 90000 | 400 | 2700 | NA | NA | NA |
| RT727 | 2.000 | 50.800 | 6.000 | 152.400 | 1.375 | 34.925 | 8.630 | 3.920 | 102000 | 455 | 310000 | 1380 | 2300 | NA | NA | NA |
| FC69103.1 | 2.037 | 51.750 | 3.035 | 77.090 | 0.238 | 6.050 | 0.181 | 0.082 | 7400 | 33 | 33000 | 146 | 3100 | 2.242 | 56.940 | NA |
| 20PS01SS | 2.056 | 52.222 | 2.247 | 57.074 | 0.142 | 3.600 | 1.991 | 0.903 | 91 | 0.405 | 84 | 0.375 | 3600 | 2.057 | 52.248 | NA |
| FC67324.7 | 2.126 | 54 | 3.032 | 77.010 | 0.188 | 4.770 | 0.119 | 0.054 | 5350 | 23.8 | 27000 | 121 | 3100 | 2.274 | 57.770 | NA |
| FC65747 | 2.128 | 54.040 | 2.900 | 73.660 | 0.143 | 3.630 | 0.406 | 0.184 | 5050 | 22.4 | 27500 | 123 | 3100 | 2.284 | 58.010 | NA |
| 3911 | 2.165 | 55 | 3.937 | 100 | 1.299 | 33 | 2.384 | 1.081 | 22300 | 99 | 46000 | 204 | 2600 | 2.173 | 55.194 | NA |
| FC67324.1S | 2.186 | 55.530 | 3.032 | 77.010 | 0.188 | 4.770 | 0.110 | 0.050 | 6600 | 29.5 | 28500 | 127 | 3000 | 2.274 | 57.770 | NA |
| 21Z02 | 2.188 | 55.575 | 3.751 | 95.275 | 1.255 | 31.870 | 2.101 | 0.953 | 17100 | 76 | 42500 | 189 | 2000 | NA | NA | NA |
| 21P01 | 2.190 | 55.626 | 3.594 | 91.288 | 0.817 | 20.750 | 0.805 | 0.365 | 3350 | 14.8 | 2700 | 12.1 | 2700 | NA | NA | NA |
| 4703 | 2.248 | 57.099 | 3.372 | 85.649 | 0.755 | 19.177 | 0.781 | 0.354 | 9700 | 43 | 26500 | 117 | 2800 | 2.271 | 57.683 | NA |
| 22X23 | 2.250 | 57.150 | 3.438 | 87.313 | 0.875 | 22.225 | 1.028 | 0.466 | 9300 | 41.5 | 22700 | 101 | 2800 | NA | NA | NA |
| RWCT19 | 2.250 | 57.150 | 4.250 | 107.950 | 1.000 | 25.400 | 2.315 | 1.050 | 38500 | 172 | 97000 | 435 | 2500 | NA | NA | NA |
| FC65786.2 | 2.294 | 58.270 | 3.076 | 78.130 | 0.143 | 3.630 | 0.434 | 0.197 | 4500 | 20 | 24000 | 108 | 2900 | 2.446 | 62.130 | NA |
| FC67906 | 2.294 | 58.270 | 3.109 | 78.980 | 0.143 | 3.620 | 0.093 | 0.042 | 5800 | 26 | 34000 | 152 | 2900 | 2.445 | 62.094 | NA |
| 3912 | 2.362 | 60 | 4.173 | 106 | 1.378 | 35 | 3.197 | 1.450 | 24000 | 107 | 50000 | 224 | 2400 | 2.370 | 60.198 | NA |
| 874 12 | 2.362 | 60 | 5.118 | 130 | 1.260 | 32 | 4.983 | 2.260 | 58000 | 260 | 225000 | 1000 | 3000 | NA | NA | NA |
| F-218320 | 2.374 | 60.300 | 3.260 | 82.800 | 0.110 | 2.800 | 0.072 | 0.033 | 2850 | 12.7 | 16000 | 71 | 2800 | NA | NA | NA |
| F-223348 | 2.374 | 60.300 | 3.260 | 82.800 | 0.116 | 2.950 | 0.082 | 0.037 | 2850 | 12.7 | 16000 | 71 | 2800 | NA | NA | NA |
| F-223349 | 2.374 | 60.300 | 3.272 | 83.100 | 0.124 | 3.150 | 0.090 | 0.041 | 2850 | 12.7 | 16000 | 71 | 2800 | NA | NA | NA |
| F-223350 | 2.374 | 60.300 | 3.287 | 83.500 | 0.132 | 3.350 | 0.101 | 0.046 | 2850 | 12.7 | 16000 | 71 | 2800 | NA | NA | NA |
| FC68865 | 2.380 | 60.450 | 3.285 | 83.450 | 0.222 | 5.630 | 0.187 | 0.085 | 8300 | 37 | 33500 | 148 | 2800 | 2.533 | 64.340 | NA |
| F-225458 | 2.445 | 62.100 | 3.260 | 82.800 | 0.110 | 2.800 | 0.069 | 0.031 | 2800 | 12.5 | 16000 | 71 | 2800 | NA | NA | NA |
| F-225459 | 2.445 | 62.100 | 3.260 | 82.800 | 0.116 | 2.950 | 0.076 | 0.035 | 2800 | 12.5 | 16000 | 71 | 2800 | NA | NA | NA |
| F-225461 | 2.445 | 62.100 | 3.287 | 83.500 | 0.132 | 3.350 | 0.095 | 0.043 | 2800 | 12.5 | 16000 | 71 | 2700 | NA | NA | NA |
| FC66012.9 | 2.488 | 63.200 | 3.380 | 85.850 | 0.152 | 3.870 | 0.116 | 0.053 | 6300 | 28 | 35500 | 158 | 2700 | 2.639 | 67.020 | NA |
| FC66012 | 2.488 | 63.200 | 3.380 | 85.850 | 0.153 | 3.880 | 0.115 | 0.052 | 6000 | 26.5 | 33500 | 148 | 2700 | 2.639 | 67.020 | NA |
| FC66012S381 | 2.488 | 63.200 | 3.380 | 85.850 | 0.153 | 3.880 | 0.114 | 0.052 | 6000 | 26.5 | 33500 | 148 | 2700 | 2.639 | 67.020 | NA |
| 25Y07 | 2.502 | 63.551 | 4.541 | 115.340 | 1.847 | 46.910 | 4.611 | 2.091 | 28500 | 127 | 67000 | 300 | 1700 | 2.813 | 71.438 | NA |
| FC67222.1 | 2.540 | 64.516 | 3.320 | 84.328 | 0.159 | 4.030 | 0.121 | 0.055 | 5400 | 23.8 | 27000 | 121 | 2700 | 2.690 | 68.330 | NA |
| 3913 | 2.559 | 65 | 4.409 | 112 | 1.417 | 36 | 3.120 | 1.415 | 29000 | 127 | 60000 | 265 | 2300 | 2.567 | 65.202 | NA |

# Miscellaneous Ball & Roller Thrust Bearings

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Special numbers containing “Y” are banded bearings

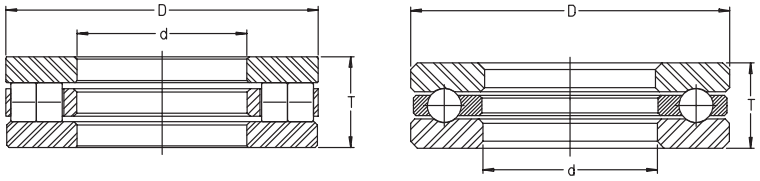



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | CLEARANCE BORE inch | CLEARANCE BORE mm | SEAT RADIUS mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 513 | 2.559 | 65 | 5.512 | 140 | 2.913 | 74 | 12.557 | 5.695 | 60000 | 265 | 111000 | 495 | 1900 | 2.677 | 68 | 125 |
| 25Y14 | 2.566 | 65.176 | 3.968 | 100.787 | 0.880 | 22.352 | 1.303 | 0.591 | 14400 | 64 | 39500 | 175 | 1800 | 2.584 | 65.634 | NA |
| 26RTW08 | 2.618 | 66.497 | 4.186 | 106.324 | 1.345 | 34.163 | 2.183 | 0.990 | 22700 | 101 | 55000 | 246 | 2800 | 2.745 | 69.723 | 165.1 |
| 26RT18 | 2.624 | 66.650 | 4.342 | 110.287 | 1.005 | 25.527 | 1.632 | 0.740 | 42000 | 188 | 112000 | 500 | 2700 | 2.870 | 72.900 | NA |
| 26RT19 | 2.624 | 66.650 | 4.342 | 110.287 | 1.396 | 35.458 | 2.904 | 1.317 | 42000 | 188 | 112000 | 500 | 2700 | 2.870 | 72.900 | NA |
| 26RT20 | 2.624 | 66.650 | 4.342 | 110.290 | 1.005 | 25.530 | 2.152 | 0.976 | 42000 | 187 | 112000 | 500 | 2700 | 2.870 | 72.900 | NA |
| 26RT17.2 | 2.627 | 66.726 | 6.015 | 152.781 | 0.939 | 23.850 | 5.078 | 2.303 | 76000 | 340 | 255000 | 1130 | 2200 | NA | NA | NA |
| FC67977 | 2.627 | 66.726 | 6.015 | 152.781 | 0.939 | 23.850 | 5.078 | 2.303 | 97000 | 430 | 345000 | 1540 | 1800 | NA | NA | NA |
| RWCT23 | 2.750 | 69.850 | 4.843 | 123.012 | 1.000 | 25.400 | 2.836 | 1.286 | 41500 | 184 | 112000 | 500 | 2100 | NA | NA | NA |
| 27X30 | 2.756 | 70 | 4.055 | 103 | 1.063 | 27 | 1.647 | 0.747 | 16600 | 74 | 42500 | 189 | 2300 | 2.759 | 70.079 | NA |
| DM70 | 2.756 | 70 | 4.803 | 122 | 1.634 | 41.5 | 4.441 | 2.014 | 25500 | 114 | 58000 | 260 | 2100 | NA | NA | NA |
| 874 14 | 2.756 | 70 | 5.906 | 150 | 1.417 | 36 | 7.431 | 3.370 | 81000 | 360 | 310000 | 1380 | 2600 | NA | NA | NA |
| F-390470.7 | 2.902 | 73.700 | 3.583 | 91 | 0.143 | 3.620 | 0.101 | 0.046 | 3900 | 17.4 | 21400 | 95 | 2400 | 3.046 | 77.360 | NA |
| 3915 | 2.953 | 75 | 5.039 | 128 | 1.614 | 41 | 4.728 | 2.144 | 36000 | 158 | 82000 | 365 | 2000 | 2.961 | 75.209 | NA |
| RT730 | 3.000 | 76.200 | 6.000 | 152.400 | 1.375 | 34.925 | 7.280 | 3.300 | 94000 | 420 | 290000 | 1300 | 2100 | NA | NA | NA |
| 30RT04 | 3.000 | 76.200 | 6.380 | 162.052 | 1.312 | 33.320 | 8.225 | 3.730 | 94000 | 420 | 232000 | 1030 | 2000 | 3.047 | 77.394 | NA |
| RT731 | 3.000 | 76.200 | 7.000 | 177.800 | 1.375 | 34.925 | 10.790 | 4.890 | 121000 | 540 | 420000 | 1860 | 1800 | NA | NA | NA |
| RT732 | 3.000 | 76.200 | 8.000 | 203.200 | 1.375 | 34.925 | 14.840 | 6.730 | 145000 | 640 | 540000 | 2400 | 1700 | NA | NA | NA |
| RT733 | 3.000 | 76.200 | 9.000 | 228.600 | 1.375 | 34.925 | 19.420 | 8.810 | 149000 | 660 | 570000 | 2550 | 1500 | NA | NA | NA |
| 30RT20.2 | 3.002 | 76.251 | 8.010 | 203.454 | 0.939 | 23.850 | 9.565 | 4.338 | 112000 | 500 | 460000 | 2050 | 1700 | NA | NA | NA |
| 31X42 | 3.150 | 80 | 4.528 | 115 | 1.142 | 29 | 2.057 | 0.933 | 22000 | 98 | 56000 | 250 | 2100 | 3.228 | 81.991 | NA |
| 3916 | 3.150 | 80 | 5.354 | 136 | 1.732 | 44 | 6.196 | 2.810 | 37000 | 166 | 81000 | 360 | 1900 | 3.157 | 80.188 | NA |
| 31X14 | 3.177 | 80.696 | 4.248 | 107.899 | 0.552 | 14.021 | 0.668 | 0.303 | 9600 | 42.5 | 29500 | 131 | 2100 | NA | NA | NA |
| 32RT01 | 3.249 | 82.517 | 4.875 | 123.825 | 1.000 | 25.400 | 2.426 | 1.100 | 44500 | 199 | 128000 | 570 | 2300 | 3.297 | 83.744 | NA |
| RWCT27C | 3.250 | 82.550 | 6.375 | 161.925 | 1.750 | 44.450 | 9.411 | 4.268 | 94000 | 420 | 260000 | 1170 | 1700 | NA | NA | NA |
| RWCT27B | 3.500 | 88.900 | 6.375 | 161.925 | 1.625 | 41.275 | 8.244 | 3.739 | 99000 | 440 | 280000 | 1250 | 1600 | NA | NA | NA |
| 38YT387C | 3.870 | 98.298 | 5.010 | 127.254 | 0.688 | 17.463 | 0.807 | 0.366 | 12800 | 57 | 45000 | 201 | 1300 | NA | NA | NA |
| 40X12 | 3.999 | 101.575 | 5.880 | 149.352 | 1.485 | 37.720 | 4.895 | 2.220 | 24500 | 109 | 70000 | 310 | 1600 | 4.146 | 105.308 | 168.28 |
| 40YM04 | 3.999 | 101.575 | 6.014 | 152.756 | 1.475 | 37.465 | 5.486 | 2.488 | 24500 | 109 | 70000 | 310 | 1200 | 4.146 | 105.308 | 168.28 |
| RT734 | 4.000 | 101.600 | 7.000 | 177.800 | 1.750 | 44.450 | 11.330 | 5.140 | 121000 | 540 | 380000 | 1700 | 1700 | NA | NA | NA |
| RT735 | 4.000 | 101.600 | 8.000 | 203.200 | 1.750 | 44.450 | 16.480 | 7.470 | 160000 | 710 | 570000 | 2500 | 1500 | NA | NA | NA |
| 41X04 | 4.134 | 105 | 6.102 | 155 | 1.575 | 40 | 5.623 | 2.550 | 32000 | 142 | 85000 | 380 | 1500 | 4.140 | 105.156 | NA |
| 894 22 | 4.331 | 110 | 9.055 | 230 | 2.874 | 73 | 34.398 | 15.600 | 225000 | 1000 | 764000 | 3400 | 1700 | NA | NA | NA |
| RWCT38A | 4.500 | 114.300 | 8.312 | 211.125 | 2.000 | 50.800 | 17.470 | 7.923 | 144000 | 640 | 510000 | 2260 | 1100 | NA | NA | NA |
| 1025 | 4.921 | 125 | 10.630 | 270 | 5.118 | 130 | 76.070 | 34.500 | 205000 | 910 | 450000 | 2000 | 950 | 4.929 | 125.197 | NA |
| 49X13 | 4.933 | 125.298 | 6.892 | 175.057 | 1.836 | 46.630 | 7.393 | 3.353 | 37500 | 167 | 106000 | 470 | 1300 | NA | NA | NA |
| RT740 | 5.000 | 127.000 | 10.000 | 254.000 | 2.000 | 50.800 | 29.430 | 13.350 | 206000 | 910 | 750000 | 3300 | 1200 | NA | NA | NA |
| 52X12 | 5.251 | 133.375 | 7.135 | 181.230 | 1.485 | 37.720 | 6.117 | 2.774 | 29000 | 128 | 91000 | 405 | 1300 | 5.396 | 137.058 | 217.5 |
| 52YM04Z | 5.251 | 133.375 | 7.269 | 184.630 | 1.470 | 37.340 | 6.240 | 2.830 | 29000 | 128 | 91000 | 405 | 950 | 5.396 | 137.058 | 217.5 |
| 56RT02 | 5.625 | 142.875 | 8.270 | 210.058 | 1.750 | 44.450 | 5.733 | 2.600 | 135000 | 600 | 470000 | 2080 | 1400 | 5.730 | 145.540 | NA |
| 65X14 | 6.504 | 165.202 | 8.125 | 206.375 | 1.255 | 31.877 | 5.625 | 2.551 | 29000 | 130 | 108000 | 480 | 1100 | NA | NA | NA |
| 65X12 | 6.570 | 166.878 | 7.570 | 192.278 | 0.688 | 17.470 | 1.623 | 0.736 | 11900 | 53 | 60500 | 270 | 1100 | NA | NA | NA |
| 67X02 | 6.769 | 171.930 | 8.465 | 215.011 | 1.339 | 34.010 | 6.392 | 2.899 | 28000 | 126 | 105000 | 465 | 1000 | NA | NA | NA |
| FC67080 | 6.970 | 177.038 | 8.125 | 206.376 | 1.510 | 38.350 | 5.072 | 2.300 | 23800 | 106 | 105000 | 465 | 1000 | NA | NA | NA |
| 70X14 | 7.020 | 178.308 | 9.002 | 228.650 | 1.005 | 25.527 | 5.894 | 2.673 | 17300 | 77 | 67000 | 300 | 1000 | NA | NA | NA |
| 70X01 | 7.021 | 178.333 | 9.000 | 228.600 | 0.963 | 24.460 | 4.977 | 2.257 | 20500 | 91 | 84000 | 375 | 1000 | NA | NA | NA |
| 78X03 | 7.873 | 199.969 | 11.417 | 290 | 2.761 | 70.130 | 38.698 | 17.550 | 53000 | 235 | 144000 | 640 | 800 | 7.895 | 200.533 | NA |

# Miscellaneous Ball & Roller Thrust Bearings

- Ball and roller thrust bearings
- Sorted by shaft dimension
- Special numbers containing “Y” are banded bearings

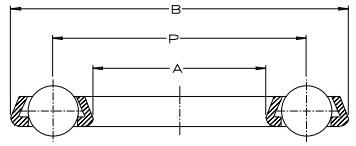



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | CLEARANCE BORE inch | CLEARANCE BORE mm | SEAT RADIUS mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 80X03 | 7.998 | 203.149 | 11.750 | 298.450 | 2.503 | 63.576 | 32.242 | 14.622 | 85000 | 380 | 285000 | 1260 | 800 | 7.998 | 203.149 | NA |
| 85X04 | 8.530 | 216.662 | 10.500 | 266.700 | 1.000 | 25.400 | 2.463 | 1.117 | 20000 | 89 | 89000 | 395 | 800 | NA | NA | NA |
| RT756 | 10.000 | 254.000 | 20.000 | 508.000 | 3.750 | 95.250 | 220.690 | 100.090 | 880000 | 3900 | 3750000 | 16800 | 600 | NA | NA | NA |
| 140Z01 | 13.484 | 342.500 | 18.250 | 463.550 | 4.260 | 108.200 | 111.286 | 50.470 | 175000 | 780 | 890000 | 3950 | 370 | NA | NA | NA |
| 195X02 | 19.500 | 495.300 | 23.000 | 584.200 | 2.000 | 50.800 | 51.718 | 23.455 | 90000 | 400 | 475000 | 2113 | 370 | 19.990 | 507.746 | NA |
| 195X03 | 19.500 | 495.300 | 23.000 | 584.200 | 2.250 | 57.150 | 61.819 | 28.036 | 105000 | 465 | 620000 | 2750 | 370 | 19.970 | 507.238 | NA |

# Thrust Ball and Cage Assemblies

- Sorted by pitch diameter
- Bore shown is larger than mating shaft
- OD shown is smaller than mating housing
- Load rating depends on raceway
- Speed limit shown is for oil lubrication



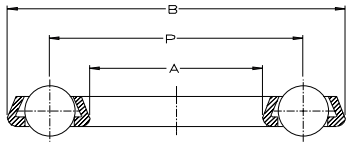

*CAGE SHAPE WILL VARY WITH CAGE MATERIAL

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | PITCH DIA. inch | PITCH DIA. mm | BALL DIA. inch | BALL DIA. mm | CAGE MAT'L | BORE inch | BORE mm | OD inch | OD mm | # BALLS | WEIGHT lbs | WEIGHT kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01N06 | 0.313 | 7.938 | 0.062 | 1.580 | Nylon | 0.192 | 4.870 | 0.432 | 10.980 | 10 | 0.002 | 0.001 |
| 02J05 | 0.411 | 10.439 | 0.094 | 2.381 | Steel | 0.278 | 7.060 | 0.550 | 13.970 | 8 | 0.004 | 0.002 |
| 02N05 | 0.411 | 10.439 | 0.094 | 2.381 | Nylon | 0.255 | 6.480 | 0.557 | 14.150 | 10 | 0.004 | 0.002 |
| FT08MK | 0.470 | 11.938 | 0.094 | 2.381 | Brass | 0.315 | 8.000 | 0.626 | 15.900 | 10 | 0.007 | 0.003 |
| 03J08 | 0.521 | 13.233 | 0.094 | 2.381 | Steel | 0.382 | 9.700 | 0.665 | 16.890 | 10 | 0.004 | 0.002 |
| 03N10 | 0.529 | 13.437 | 0.094 | 2.381 | Nylon | 0.380 | 9.650 | 0.675 | 17.150 | 12 | 0.002 | 0.001 |
| F-390671 | 0.529 | 13.440 | 0.094 | 2.381 | Nylon | 0.380 | 9.650 | 0.675 | 17.150 | 12 | 1.764 | 0.800 |
| FT010MK | 0.531 | 13.494 | 0.094 | 2.381 | Brass | 0.385 | 9.780 | 0.676 | 17.170 | 12 | 0.007 | 0.003 |
| 03N11 | 0.531 | 13.495 | 0.125 | 3.175 | Nylon | 0.330 | 8.380 | 0.730 | 18.540 | 8 | 0.007 | 0.003 |
| 04J02 | 0.570 | 14.478 | 0.125 | 3.175 | Steel | 0.406 | 10.310 | 0.730 | 18.540 | 11 | 0.015 | 0.007 |
| 04N03 | 0.612 | 15.545 | 0.125 | 3.175 | Nylon | 0.441 | 11.200 | 0.807 | 20.500 | 10 | 0.011 | 0.005 |
| 05N22 | 0.625 | 15.875 | 0.094 | 2.381 | Nylon | 0.501 | 12.730 | 0.756 | 19.200 | 10 | 0.007 | 0.003 |
| 05N21 | 0.687 | 17.450 | 0.125 | 3.175 | Nylon | 0.505 | 12.820 | 0.870 | 22.100 | 12 | 0.013 | 0.006 |
| 04J09 | 0.689 | 17.501 | 0.156 | 3.969 | Steel | 0.473 | 12.010 | 0.905 | 22.990 | 10 | 0.015 | 0.007 |
| 05J01 | 0.713 | 18.110 | 0.156 | 3.969 | Steel | 0.515 | 13.080 | 0.910 | 23.110 | 10 | 0.007 | 0.003 |
| 06J01 | 0.807 | 20.498 | 0.156 | 3.969 | Steel | 0.654 | 16.610 | 1.150 | 29.210 | 12 | 0.011 | 0.005 |
| 05J02 | 0.813 | 20.638 | 0.187 | 4.762 | Steel | 0.574 | 14.580 | 1.045 | 26.540 | 10 | 0.013 | 0.006 |
| 06J10 | 0.889 | 22.581 | 0.156 | 3.969 | Steel | 0.687 | 17.450 | 1.092 | 27.740 | 12 | 0.009 | 0.004 |
| 06J06 | 0.973 | 24.714 | 0.250 | 6.350 | Steel | 0.667 | 16.940 | 1.280 | 32.510 | 8 | 0.031 | 0.014 |
| 09N04 | 1.062 | 26.975 | 0.094 | 2.381 | Nylon | 0.906 | 23.000 | 1.242 | 31.550 | 26 | 0.009 | 0.004 |
| 09N03 | 1.107 | 28.118 | 0.094 | 2.381 | Nylon | 0.930 | 23.620 | 1.286 | 32.660 | 28 | 0.011 | 0.005 |
| 10N07 | 1.124 | 28.550 | 0.063 | 1.588 | Nylon | 1.093 | 27.760 | 1.539 | 39.100 | 30 | 0.007 | 0.003 |
| 08JS10SS | 1.125 | 28.575 | 0.187 | 4.762 | Stainless | 0.870 | 22.100 | 1.382 | 35.100 | 12 | 0.029 | 0.013 |
| 08J04 | 1.135 | 28.829 | 0.250 | 6.350 | Steel | 0.816 | 20.730 | 1.450 | 36.830 | 10 | 0.037 | 0.017 |
| 09J02 | 1.250 | 31.750 | 0.250 | 6.350 | Steel | 0.940 | 23.880 | 1.560 | 39.620 | 12 | 0.037 | 0.017 |
| FC67244 | 1.307 | 33.200 | 0.094 | 2.381 | Nylon | 1.128 | 28.651 | 1.472 | 37.389 | 30 | 0.007 | 0.003 |
| 10J01 | 1.319 | 33.503 | 0.250 | 6.350 | Steel | 1.012 | 25.700 | 1.616 | 41.050 | 14 | 0.071 | 0.032 |
| 08N01 | 1.363 | 34.620 | 0.250 | 6.350 | Nylon | 0.885 | 22.480 | 1.842 | 46.790 | 14 | 0.099 | 0.045 |
| 09XS28LKV | 1.375 | 34.925 | 0.250 | 6.350 | Phenolic | 0.995 | 25.273 | 1.760 | 44.704 | 10 | 0.031 | 0.014 |
| 10J03 | 1.378 | 35.001 | 0.281 | 7.144 | Steel | 1.039 | 26.390 | 1.712 | 43.490 | 13 | 0.057 | 0.026 |
| 10J04 | 1.380 | 35.052 | 0.250 | 6.350 | Steel | 1.060 | 26.920 | 1.685 | 42.800 | 12 | 0.049 | 0.022 |
| 10JS04SS | 1.380 | 35.052 | 0.250 | 6.350 | Stainless | 1.050 | 26.670 | 1.695 | 43.053 | 12 | 0.044 | 0.020 |
| 11J03 | 1.500 | 38.100 | 0.250 | 6.350 | Steel | 1.189 | 30.200 | 1.814 | 46.080 | 12 | 0.082 | 0.037 |
| 12J01 | 1.508 | 38.303 | 0.187 | 4.762 | Steel | 1.267 | 32.180 | 1.735 | 44.070 | 19 | 0.024 | 0.011 |
| 13J04 | 1.624 | 41.250 | 0.187 | 4.762 | Steel | 1.386 | 35.200 | 1.860 | 47.240 | 18 | 0.029 | 0.013 |
| 13N01 | 1.639 | 41.631 | 0.125 | 3.175 | Nylon | 1.370 | 34.800 | 1.911 | 48.540 | 32 | 0.020 | 0.009 |
| 12J02 | 1.672 | 42.469 | 0.313 | 7.938 | Steel | 1.270 | 32.260 | 2.075 | 52.710 | 13 | 0.077 | 0.035 |
| 16J03 | 1.782 | 45.263 | 0.125 | 3.175 | Steel | 1.604 | 40.740 | 1.941 | 49.300 | 16 | 0.026 | 0.012 |
| 15J03 | 1.920 | 48.768 | 0.281 | 7.144 | Steel | 1.565 | 39.750 | 2.275 | 57.790 | 14 | 0.077 | 0.035 |
| 17J03 | 2.080 | 52.832 | 0.250 | 6.350 | Steel | 1.762 | 44.750 | 2.383 | 60.530 | 18 | 0.064 | 0.029 |
| 18N05 | 2.093 | 53.162 | 0.125 | 3.175 | Nylon | 1.819 | 46.200 | 2.417 | 61.400 | 40 | 0.022 | 0.010 |
| FC68328-955 | 2.164 | 54.966 | 0.281 | 7.144 | Nylon | 1.815 | 46.100 | 2.505 | 63.620 | 20 | 0.086 | 0.039 |
| 18J01 | 2.165 | 54.991 | 0.281 | 7.144 | Steel | 1.812 | 46.020 | 2.517 | 63.930 | 20 | 0.097 | 0.044 |
| 18J04 | 2.327 | 59.106 | 0.406 | 10.319 | Steel | 1.830 | 46.480 | 2.817 | 71.550 | 16 | 0.203 | 0.092 |
| 20J04 | 2.468 | 62.687 | 0.313 | 7.938 | Steel | 2.066 | 52.480 | 2.855 | 72.520 | 16 | 0.112 | 0.051 |
| 21J01 | 2.578 | 65.481 | 0.313 | 7.938 | Steel | 2.186 | 55.520 | 2.965 | 75.310 | 21 | 0.218 | 0.099 |
| 22N01 | 2.688 | 68.263 | 0.281 | 7.144 | Nylon | 2.265 | 57.530 | 3.109 | 78.970 | 18 | 0.097 | 0.044 |

# Thrust Ball and Cage Assemblies

- Sorted by pitch diameter
- Bore shown is larger than mating shaft
- OD shown is smaller than mating housing
- Load rating depends on raceway
- Speed limit shown is for oil lubrication



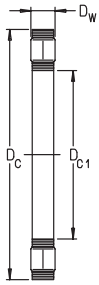

*CAGE SHAPE WILL VARY WITH CAGE MATERIAL

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | PITCH DIA. inch | PITCH DIA. mm | BALL DIA. inch | BALL DIA. mm | CAGE MAT'L | BORE inch | BORE mm | OD inch | OD mm | # BALLS | WEIGHT lbs | WEIGHT kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23J03 | 2.771 | 70.393 | 0.375 | 9.525 | Steel | 2.325 | 59.060 | 3.240 | 82.290 | 18 | 0.187 | 0.085 |
| 23J04 | 2.795 | 70.993 | 0.375 | 9.525 | Steel | 2.380 | 60.450 | 3.200 | 81.280 | 22 | 0.273 | 0.124 |
| 24J02 | 2.992 | 75.997 | 0.438 | 11.113 | Steel | 2.450 | 62.230 | 3.525 | 89.535 | 18 | 0.088 | 0.040 |
| 28J01 | 3.417 | 86.792 | 0.500 | 12.700 | Steel | 2.830 | 71.880 | 4.000 | 101.600 | 19 | 0.441 | 0.200 |
| 32J02 | 3.750 | 95.250 | 0.438 | 11.113 | Steel | 3.225 | 81.920 | 4.262 | 108.250 | 22 | 0.591 | 0.268 |
| FT41MK | 3.878 | 98.501 | 0.375 | 9.525 | Brass | 3.004 | 76.300 | 4.705 | 119.500 | 13 | 0.856 | 0.388 |
| 49J01 | 5.517 | 140.132 | 0.531 | 13.494 | Steel | 4.900 | 124.460 | 6.145 | 156.080 | 28 | 0.864 | 0.392 |
| 49J02 | 5.900 | 149.860 | 0.813 | 20.638 | Steel | 4.945 | 125.600 | 6.875 | 174.630 | 20 | 1.985 | 0.900 |

# Thrust Roller And Cage Assemblies

- Metric and inch
- Needle and cylindrical roller types
- Sorted by bore
- Speed limit shown is for oil lubrication

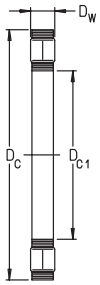



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $D_{c1}$ inch | SHAFT $D_{c1}$ mm | OD $D_c$ inch | OD $D_c$ mm | ROLLER DIA. inch | ROLLER DIA. mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | EB INTERNAL RACE DIA. inch | EB INTERNAL RACE DIA. mm | EA EXTERNAL RACE DIA. inch | EA EXTERNAL RACE DIA. mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AXK 0414 TN | 0.158 | 4 | 0.551 | 14 | 0.079 | 2 | 0.002 | 0.001 | 1000 | 4.45 | 1800 | 8 | 21000 | 0.197 | 5 | 0.512 | 13 |
| AXK 0515 TN | 0.197 | 5 | 0.591 | 15 | 0.079 | 2 | 0.002 | 0.001 | 1070 | 4.75 | 2070 | 9.2 | 21000 | 0.236 | 6 | 0.551 | 14 |
| AXK 0619 TN | 0.236 | 6 | 0.748 | 19 | 0.079 | 2 | 0.002 | 0.001 | 1530 | 6.8 | 3500 | 15.5 | 19000 | 0.276 | 7 | 0.709 | 18 |
| TC411 | 0.250 | 6.350 | 0.687 | 17.450 | 0.078 | 1.984 | 0.004 | 0.002 | 1370 | 6.1 | 3000 | 13.3 | 20000 | 0.280 | 7.1 | 0.618 | 15.7 |
| TC512 | 0.312 | 7.938 | 0.750 | 19.050 | 0.078 | 1.984 | 0.007 | 0.003 | 1560 | 6.9 | 3650 | 16.2 | 18000 | 0.350 | 8.9 | 0.681 | 17.3 |
| AXK 0821 TN | 0.315 | 8 | 0.827 | 21 | 0.079 | 2 | 0.004 | 0.002 | 1750 | 7.8 | 4350 | 19.4 | 18000 | 0.354 | 9 | 0.787 | 20 |
| TC613 | 0.375 | 9.525 | 0.812 | 20.638 | 0.078 | 1.984 | 0.007 | 0.003 | 1620 | 7.2 | 4000 | 17.8 | 16000 | 0.409 | 10.4 | 0.748 | 19 |
| AXK 1024 | 0.394 | 10 | 0.945 | 24 | 0.079 | 2 | 0.007 | 0.003 | 2070 | 9.2 | 5700 | 25.5 | 17000 | 0.472 | 12 | 0.906 | 23 |
| AXK 1226 | 0.472 | 12 | 1.024 | 26 | 0.079 | 2 | 0.007 | 0.003 | 2230 | 9.9 | 6500 | 29 | 15000 | 0.551 | 14 | 0.984 | 25 |
| TC815 | 0.500 | 12.700 | 0.938 | 23.813 | 0.078 | 1.984 | 0.009 | 0.004 | 1920 | 8.5 | 5300 | 23.6 | 13000 | 0.532 | 13.5 | 0.890 | 22.6 |
| FC66073 | 0.574 | 14.580 | 1.481 | 37.620 | 0.094 | 2.380 | 0.033 | 0.015 | 4200 | 18.8 | 14000 | 64 | 13000 | 0.724 | 18.4 | 1.323 | 33.5 |
| K 811 02 TN | 0.591 | 15 | 1.102 | 28 | 0.138 | 3.500 | 0.013 | 0.006 | 3250 | 14.4 | 6400 | 28.5 | 13000 | 0.630 | 16 | 1.063 | 27 |
| AXK 1528 | 0.591 | 15 | 1.102 | 28 | 0.079 | 2 | 0.009 | 0.004 | 2550 | 11.3 | 8100 | 36 | 13000 | 0.669 | 17 | 1.063 | 27 |
| F-390674 | 0.591 | 15 | 1.062 | 26.970 | 0.078 | 1.980 | 0.007 | 0.003 | 1860 | 8.3 | 5300 | 23.7 | 11000 | 0.650 | 16.5 | 1.000 | 25.4 |
| TC1018 | 0.625 | 15.875 | 1.125 | 28.575 | 0.078 | 1.984 | 0.009 | 0.004 | 2170 | 9.7 | 6600 | 29.5 | 11000 | 0.689 | 17.5 | 1.051 | 26.7 |
| FC67394 | 0.625 | 15.875 | 1.388 | 35.250 | 0.187 | 4.760 | 0.029 | 0.013 | 6000 | 27 | 14000 | 63 | 11000 | 0.705 | 17.9 | 1.283 | 32.6 |
| F-228532.3 | 0.630 | 16 | 1.378 | 35 | 0.177 | 4.500 | 0.022 | 0.010 | 4700 | 21.1 | 10900 | 48.5 | 11000 | 0.847 | 21.5 | 1.319 | 33.5 |
| K 811 03 TN | 0.669 | 17 | 1.181 | 30 | 0.138 | 3.500 | 0.020 | 0.009 | 3600 | 15.9 | 7500 | 33.5 | 12000 | 0.709 | 18 | 1.142 | 29 |
| AXK 1730 | 0.669 | 17 | 1.181 | 30 | 0.079 | 2 | 0.009 | 0.004 | 2700 | 11.9 | 8900 | 39.5 | 12000 | 0.748 | 19 | 1.142 | 29 |
| FC66992.1-951 | 0.673 | 17.086 | 1.346 | 34.200 | 0.098 | 2.500 | 0.014 | 0.006 | 3550 | 15.8 | 11000 | 50 | 9500 | 0.819 | 20.8 | 1.264 | 32.1 |
| FC66992.5-951 | 0.673 | 17.086 | 1.346 | 34.200 | 0.098 | 2.500 | 0.022 | 0.010 | 3550 | 15.8 | 11200 | 50 | 9500 | 0.819 | 20.8 | 1.264 | 32.1 |
| FC65762 | 0.673 | 17.100 | 1.580 | 40.130 | 0.098 | 2.500 | 0.108 | 0.049 | 4500 | 19.8 | 16000 | 69 | 8500 | 0.888 | 22.6 | 1.421 | 36.1 |
| FC68404-950 | 0.677 | 17.200 | 1.348 | 34.250 | 0.118 | 3 | 0.017 | 0.008 | 4150 | 18.4 | 12000 | 54 | 9500 | 0.815 | 20.7 | 1.264 | 32.1 |
| F-227239 | 0.709 | 18 | 1.378 | 35 | 0.177 | 4.500 | 0.028 | 0.013 | 4600 | 20.6 | 10500 | 46.5 | 9000 | 0.850 | 21.6 | 1.276 | 32.4 |
| TC1220 | 0.750 | 19.050 | 1.250 | 31.750 | 0.078 | 1.984 | 0.014 | 0.006 | 2410 | 10.7 | 8000 | 35.5 | 9500 | 0.811 | 20.6 | 1.169 | 29.7 |
| K 811 04 TN | 0.787 | 20 | 1.378 | 35 | 0.177 | 4.500 | 0.029 | 0.013 | 5600 | 24.9 | 11900 | 53 | 10000 | 0.827 | 21 | 1.339 | 34 |
| AXK 2035 | 0.787 | 20 | 1.378 | 35 | 0.079 | 2 | 0.011 | 0.005 | 2950 | 13.1 | 10500 | 46.5 | 10000 | 0.866 | 22 | 1.339 | 34 |
| TC1423 | 0.875 | 22.225 | 1.438 | 36.513 | 0.078 | 1.984 | 0.013 | 0.006 | 2900 | 12.9 | 10500 | 46.5 | 8000 | 0.941 | 23.9 | 1.350 | 34.3 |
| FC67337 | 0.875 | 22.225 | 1.510 | 38.354 | 0.125 | 3.170 | 0.022 | 0.010 | 4400 | 19.5 | 13000 | 58 | 8000 | 0.988 | 25.1 | 1.404 | 35.7 |
| TC1427 | 0.875 | 22.225 | 1.688 | 42.863 | 0.078 | 1.984 | 0.029 | 0.013 | 4400 | 19.6 | 18600 | 83 | 7500 | 0.941 | 23.9 | 1.610 | 40.9 |
| K 811 05 TN | 0.984 | 25 | 1.654 | 42 | 0.197 | 5 | 0.033 | 0.015 | 7500 | 33.5 | 17100 | 76 | 8500 | 1.024 | 26 | 1.614 | 41 |
| AXK 2542 | 0.984 | 25 | 1.654 | 42 | 0.079 | 2 | 0.015 | 0.007 | 3300 | 14.7 | 13000 | 58 | 8500 | 1.142 | 29 | 1.614 | 41 |
| TC1625 | 1.000 | 25.400 | 1.562 | 39.688 | 0.078 | 1.984 | 0.013 | 0.006 | 3150 | 14 | 12100 | 54 | 7500 | 1.071 | 27.2 | 1.480 | 37.6 |
| TC1726 | 1.062 | 26.988 | 1.625 | 41.275 | 0.078 | 1.984 | 0.021 | 0.010 | 3900 | 17.3 | 16400 | 73 | 7000 | 1.134 | 28.8 | 1.543 | 39.2 |
| FC65433 | 1.125 | 28.575 | 1.668 | 42.370 | 0.078 | 1.980 | 0.013 | 0.006 | 3400 | 15 | 14000 | 61 | 7000 | 1.212 | 30.8 | 1.611 | 40.9 |
| TC1828 | 1.125 | 28.575 | 1.750 | 44.450 | 0.078 | 1.984 | 0.018 | 0.008 | 3850 | 17.1 | 16300 | 73 | 6500 | 1.189 | 30.2 | 1.669 | 42.4 |
| FC69011 | 1.148 | 29.160 | 1.768 | 44.910 | 0.078 | 1.980 | 0.018 | 0.008 | 2990 | 13.3 | 12000 | 53 | 6500 | 1.330 | 33.8 | 1.763 | 44.8 |
| FC69011.3 | 1.148 | 29.160 | 1.768 | 44.910 | 0.078 | 1.980 | 0.018 | 0.008 | 2990 | 13.3 | 12000 | 53 | 6500 | 1.330 | 33.8 | 1.685 | 42.8 |
| F-205509.1 | 1.163 | 29.540 | 2.047 | 52 | 0.059 | 1.500 | 0.013 | 0.006 | 3900 | 17.4 | 20000 | 90 | 6000 | 1.417 | 36 | 1.969 | 50 |
| K 811 06 TN | 1.181 | 30 | 1.850 | 47 | 0.197 | 5 | 0.037 | 0.017 | 8000 | 35.5 | 19300 | 86 | 7500 | 1.221 | 31 | 1.811 | 46 |
| AXK 3047 | 1.181 | 30 | 1.850 | 47 | 0.079 | 2 | 0.018 | 0.008 | 3650 | 16.3 | 15700 | 70 | 7500 | 1.339 | 34 | 1.811 | 46 |
| K 812 06 TN | 1.181 | 30 | 2.047 | 52 | 0.295 | 7.500 | 0.073 | 0.033 | 14400 | 64 | 31500 | 141 | 7000 | 1.221 | 31 | 1.969 | 50 |
| K 893 06 TN | 1.181 | 30 | 2.362 | 60 | 0.217 | 5.500 | 0.529 | 0.240 | 15500 | 69 | 44500 | 197 | 6500 | 1.299 | 33 | 2.323 | 59 |
| TC1931 | 1.188 | 30.163 | 1.938 | 49.213 | 0.078 | 1.984 | 0.033 | 0.015 | 4500 | 20 | 20500 | 91 | 6000 | 1.252 | 31.8 | 1.850 | 47 |
| TC2031 | 1.250 | 31.750 | 1.938 | 49.213 | 0.078 | 1.984 | 0.022 | 0.010 | 4500 | 20 | 20500 | 91 | 6000 | 1.319 | 33.5 | 1.850 | 47 |
| FC65442.3 | 1.283 | 32.588 | 2.257 | 57.328 | 0.109 | 2.770 | 0.020 | 0.009 | 7000 | 31 | 30000 | 132 | 5500 | 1.410 | 35.8 | 2.137 | 54.3 |

# Thrust Roller And Cage Assemblies

- Metric and inch
- Needle and cylindrical roller types
- Sorted by bore
- Speed limit shown is for oil lubrication

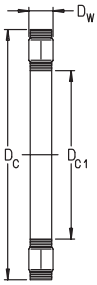



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $D_{c1}$ inch | SHAFT $D_{c1}$ mm | OD $D_c$ inch | OD $D_c$ mm | ROLLER DIA. inch | ROLLER DIA. mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | EB INTERNAL RACE DIA. inch | EB INTERNAL RACE DIA. mm | EA EXTERNAL RACE DIA. inch | EA EXTERNAL RACE DIA. mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FC67344 | 1.285 | 32.639 | 1.750 | 44.450 | 0.078 | 1.980 | 0.008 | 0.004 | 2990 | 13.3 | 10500 | 46.5 | 6000 | 1.367 | 34.7 | 1.667 | 42.3 |
| FC65442 | 1.327 | 33.710 | 2.247 | 57.070 | 0.109 | 2.770 | 0.020 | 0.009 | 4100 | 18.1 | 14000 | 64 | 5500 | 1.445 | 36.7 | 1.779 | 45.7 |
| TC2233 | 1.375 | 34.925 | 2.062 | 52.388 | 0.078 | 1.984 | 0.033 | 0.015 | 4600 | 20.5 | 21600 | 96 | 5500 | 1.441 | 36.6 | 1.980 | 50.3 |
| K 811 07 TN | 1.378 | 35 | 2.047 | 52 | 0.197 | 5 | 0.042 | 0.019 | 8800 | 39 | 22700 | 101 | 6500 | 1.417 | 36 | 2.008 | 51 |
| AXK 3552 | 1.378 | 35 | 2.047 | 52 | 0.079 | 2 | 0.022 | 0.010 | 4000 | 17.8 | 18200 | 81 | 6500 | 1.535 | 39 | 2.008 | 51 |
| K 812 07 TN | 1.378 | 35 | 2.441 | 62 | 0.295 | 7.5 | 0.095 | 0.043 | 18000 | 80 | 44500 | 199 | 6000 | 1.535 | 39 | 2.284 | 58 |
| K 893 07 TN | 1.378 | 35 | 2.677 | 68 | 0.236 | 6 | 0.750 | 0.340 | 18000 | 80 | 53000 | 237 | 5500 | 1.496 | 38 | 2.638 | 67 |
| K 894 07 TN | 1.378 | 35 | 3.150 | 80 | 0.354 | 9 | 0.245 | 0.111 | 35000 | 15.5 | 97000 | 430 | 5000 | 1.496 | 38 | 3.071 | 78 |
| 13MS08S369 | 1.380 | 35.050 | 3.017 | 76.644 | 0.375 | 9.525 | 0.587 | 0.266 | 22000 | 97 | 50000 | 224 | 4300 | 1.697 | 43.1 | 2.732 | 69.4 |
| FC69802.1 | 1.400 | 35.560 | 2.047 | 52 | 0.197 | 5 | 0.050 | 0.022 | 8800 | 39 | 23000 | 101 | 5500 | 1.500 | 38.1 | 1.925 | 48.9 |
| FC66565 | 1.408 | 35.760 | 2.488 | 63.200 | 0.109 | 2.770 | 0.079 | 0.036 | 3600 | 16 | 12500 | 55 | 4900 | 1.547 | 39.3 | 1.913 | 48.6 |
| TC2435 | 1.500 | 38.100 | 2.188 | 55.563 | 0.078 | 1.984 | 0.024 | 0.011 | 4850 | 21.6 | 23700 | 105 | 5000 | 1.571 | 39.9 | 2.098 | 53.3 |
| F-50664 | 1.502 | 38.150 | 2.177 | 55.300 | 0.125 | 3.170 | 0.033 | 0.015 | 6000 | 27 | 23000 | 102 | 5000 | 1.613 | 41.0 | 2.029 | 51.5 |
| FC67017 | 1.502 | 38.150 | 2.177 | 55.300 | 0.156 | 3.960 | 0.049 | 0.022 | 8100 | 36 | 29000 | 127 | 5000 | 1.578 | 40.1 | 2.126 | 54.0 |
| FC66558.1 | 1.502 | 38.150 | 2.295 | 58.290 | 0.156 | 3.960 | 0.042 | 0.019 | 8400 | 37.5 | 31000 | 136 | 5000 | 1.613 | 41.0 | 2.141 | 54.4 |
| K 811 08 TN | 1.575 | 40 | 2.362 | 60 | 0.236 | 6 | 0.068 | 0.031 | 12600 | 56 | 33500 | 148 | 6000 | 1.654 | 42 | 2.284 | 58 |
| AXK 4060 | 1.575 | 40 | 2.362 | 60 | 0.118 | 3 | 0.035 | 0.016 | 6300 | 28 | 25500 | 114 | 6000 | 1.772 | 45 | 2.284 | 58 |
| K 812 08 TN | 1.575 | 40 | 2.677 | 68 | 0.354 | 9 | 0.179 | 0.081 | 24100 | 107 | 60000 | 265 | 5500 | 1.693 | 43 | 2.598 | 66 |
| K 893 08 TN | 1.575 | 40 | 3.071 | 78 | 0.276 | 7 | 1.067 | 0.484 | 27500 | 122 | 87000 | 385 | 4900 | 1.732 | 44 | 3.032 | 77 |
| K 874 08 | 1.575 | 40 | 3.543 | 90 | 0.256 | 6.500 | 0.280 | 0.127 | 30500 | 135 | 108000 | 480 | 4400 | 1.772 | 45 | 3.504 | 89 |
| K 894 08 TN | 1.575 | 40 | 3.543 | 90 | 0.394 | 10 | 0.441 | 0.200 | 45000 | 200 | 130000 | 580 | 4400 | 1.693 | 43 | 3.425 | 87 |
| F-32578 | 1.575 | 40 | 2.362 | 60 | 0.079 | 2 | 0.025 | 0.011 | 3500 | 15.5 | 8500 | 38 | 4800 | 1.870 | 47.5 | 2.268 | 57.6 |
| F-56298 | 1.620 | 41.150 | 2.177 | 55.300 | 0.078 | 1.980 | 0.019 | 0.009 | 3400 | 15.2 | 15000 | 68 | 5000 | 1.693 | 43.0 | 2.094 | 53.2 |
| F-226617-20 | 1.740 | 44.200 | 2.297 | 58.350 | 0.079 | 2 | 0.022 | 0.010 | 4000 | 17.9 | 19000 | 85 | 4700 | 1.752 | 44.5 | 2.224 | 56.5 |
| TC2840 | 1.750 | 44.450 | 2.500 | 63.500 | 0.078 | 1.984 | 0.045 | 0.020 | 5600 | 24.9 | 30000 | 133 | 4400 | 1.819 | 46.2 | 2.409 | 61.2 |
| K 811 09 TN | 1.772 | 45 | 2.559 | 65 | 0.236 | 6 | 0.077 | 0.035 | 13300 | 59 | 36500 | 163 | 5000 | 1.850 | 47 | 2.480 | 63 |
| AXK 4565 | 1.772 | 45 | 2.559 | 65 | 0.118 | 3 | 0.040 | 0.018 | 6700 | 30 | 29000 | 128 | 5000 | 1.969 | 50 | 2.480 | 63 |
| K 812 09 TN | 1.772 | 45 | 2.874 | 73 | 0.354 | 9 | 0.187 | 0.085 | 23600 | 10.5 | 60000 | 265 | 4900 | 1.890 | 48 | 2.756 | 70 |
| K 893 09 TN | 1.772 | 45 | 3.347 | 85 | 0.295 | 7.5 | 1.356 | 0.615 | 31500 | 139 | 100000 | 445 | 4400 | 1.929 | 49 | 3.268 | 83 |
| K 874 09 | 1.772 | 45 | 3.937 | 100 | 0.276 | 7 | 0.384 | 0.174 | 34500 | 15.4 | 126000 | 560 | 4000 | 2.047 | 52 | 3.858 | 98 |
| K 894 09 TN | 1.772 | 45 | 3.937 | 100 | 0.433 | 11 | 0.578 | 0.262 | 54000 | 239 | 157000 | 700 | 4000 | 1.929 | 49 | 3.819 | 97 |
| K 811 10 TN | 1.969 | 50 | 2.756 | 70 | 0.236 | 6 | 0.084 | 0.038 | 13700 | 61.0 | 40000 | 177 | 4800 | 2.047 | 52 | 2.677 | 68 |
| AXK 5070 | 1.969 | 50 | 2.756 | 70 | 0.118 | 3 | 0.044 | 0.020 | 7200 | 32 | 32000 | 143 | 4800 | 2.165 | 55 | 2.677 | 68 |
| K 812 10 TN | 1.969 | 50 | 3.071 | 78 | 0.354 | 9 | 0.216 | 0.098 | 26500 | 117 | 71000 | 315 | 4500 | 2.087 | 53 | 2.953 | 75 |
| K 893 10 TN | 1.969 | 50 | 3.740 | 95 | 0.315 | 8 | 1.956 | 0.887 | 37500 | 167 | 126000 | 560 | 4000 | 2.205 | 56 | 3.622 | 92 |
| K 874 10 TN | 1.969 | 50 | 4.331 | 110 | 0.315 | 8 | 0.564 | 0.256 | 45000 | 200 | 166000 | 740 | 3600 | 2.126 | 54 | 4.213 | 107 |
| K 894 10 TN | 1.969 | 50 | 4.331 | 110 | 0.472 | 12 | 0.794 | 0.360 | 66000 | 295 | 202000 | 900 | 3600 | 2.126 | 54 | 4.213 | 107 |
| TC3244 | 2.000 | 50.800 | 2.750 | 69.850 | 0.078 | 1.984 | 0.033 | 0.015 | 5800 | 26 | 32500 | 145 | 4000 | 2.071 | 52.6 | 2.661 | 67.6 |
| K 811 11 TN | 2.165 | 55 | 3.071 | 78 | 0.236 | 6 | 0.099 | 0.045 | 20200 | 90 | 67000 | 300 | 4300 | 2.244 | 57 | 3.032 | 77 |
| AXK 5578 | 2.165 | 55 | 3.071 | 78 | 0.118 | 3 | 0.062 | 0.028 | 8500 | 38 | 42000 | 186 | 4300 | 2.362 | 60 | 2.992 | 76 |
| K 812 11 TN | 2.165 | 55 | 3.543 | 90 | 0.433 | 11 | 0.366 | 0.166 | 34500 | 154 | 91000 | 405 | 4000 | 2.323 | 59 | 3.347 | 85 |
| K 893 11 TN | 2.165 | 55 | 4.134 | 105 | 0.354 | 9 | 2.602 | 1.180 | 41500 | 184 | 135000 | 600 | 3600 | 2.402 | 61 | 4.055 | 103 |
| K 874 11 | 2.165 | 55 | 4.724 | 120 | 0.315 | 8 | 0.668 | 0.303 | 50000 | 222 | 196000 | 870 | 3300 | 2.559 | 65 | 4.646 | 118 |
| K 894 11 TN | 2.165 | 55 | 4.724 | 120 | 0.512 | 13 | 1.043 | 0.473 | 76000 | 340 | 236000 | 1050 | 3300 | 2.323 | 59 | 4.567 | 116 |
| K 894 11 TN | 2.259 | 55 | 4.724 | 120 | 0.512 | 13 | 1.043 | 0.473 | 76000 | 340 | 236000 | 1050 | 3300 | 2.323 | 59 | 4.567 | 116 |
| TC3648 | 2.250 | 57.150 | 3.000 | 76.200 | 0.078 | 1.984 | 0.037 | 0.017 | 6000 | 26.5 | 35000 | 156 | 3600 | 2.319 | 58.9 | 2.909 | 73.9 |

# Thrust Roller And Cage Assemblies

- Metric and inch
- Needle and cylindrical roller types
- Sorted by bore
- Speed limit shown is for oil lubrication

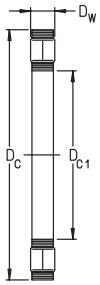



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| PART NUMBER | SHAFT $D_{c1}$ inch | SHAFT $D_{c1}$ mm | OD $D_c$ inch | OD $D_c$ mm | ROLLER DIA. inch | ROLLER DIA. mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | EB INTERNAL RACE DIA. inch | EB INTERNAL RACE DIA. mm | EA EXTERNAL RACE DIA. inch | EA EXTERNAL RACE DIA. mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FC66717 | 2.259 | 57.380 | 3.038 | 77.160 | 0.125 | 3.170 | 0.053 | 0.024 | 8300 | 37 | 38000 | 170 | 3600 | 2.346 | 59.6 | 2.969 | 75.4 |
| FC66141.6 | 2.259 | 57.380 | 3.042 | 77.260 | 0.125 | 3.170 | 0.043 | 0.020 | 7400 | 33 | 33000 | 148 | 3600 | 2.457 | 62.4 | 2.925 | 74.3 |
| FC673241-950 | 2.265 | 57.530 | 2.953 | 75.010 | 0.124 | 3.150 | 0.046 | 0.021 | 6600 | 29 | 29000 | 127 | 3600 | 2.366 | 60.1 | 2.835 | 72.0 |
| F-224443-50 | 2.323 | 59 | 2.732 | 69.400 | 0.059 | 1.500 | 0.011 | 0.005 | 2290 | 10 | 12000 | 54 | 3700 | 2.342 | 59.5 | 2.657 | 67.5 |
| K 811 12 TN | 2.362 | 60 | 3.347 | 85 | 0.295 | 7.500 | 0.181 | 0.082 | 23200 | 103 | 71000 | 315 | 4000 | 2.441 | 62 | 3.228 | 82 |
| AXK 6085 | 2.362 | 60 | 3.347 | 85 | 0.118 | 3 | 0.073 | 0.033 | 10000 | 44 | 53000 | 234 | 4000 | 2.559 | 65 | 3.268 | 83 |
| K 812 12 TN | 2.362 | 60 | 3.740 | 95 | 0.433 | 11 | 0.388 | 0.176 | 38500 | 172 | 108000 | 480 | 3700 | 2.520 | 64 | 3.583 | 91 |
| K 893 12 TN | 2.362 | 60 | 4.331 | 110 | 0.354 | 9 | 2.778 | 1.260 | 44000 | 196 | 151000 | 670 | 3400 | 2.598 | 66 | 4.252 | 108 |
| K 874 12 | 2.362 | 60 | 5.118 | 130 | 0.354 | 9 | 0.838 | 0.380 | 58000 | 260 | 225000 | 1000 | 3000 | 2.677 | 68 | 5.039 | 128 |
| K 894 12 TN | 2.362 | 60 | 5.118 | 130 | 0.551 | 14 | 1.186 | 0.538 | 88000 | 390 | 275000 | 1220 | 3000 | 2.559 | 65 | 4.961 | 126 |
| FC69475 | 2.441 | 62 | 2.874 | 73 | 0.079 | 2 | 0.023 | 0.011 | 3700 | 16.5 | 19000 | 84 | 3500 | 2.480 | 63 | 2.835 | 72 |
| TC4052 | 2.500 | 63.500 | 3.250 | 82.550 | 0.078 | 1.984 | 0.042 | 0.019 | 6200 | 27.5 | 37500 | 167 | 3300 | 2.571 | 65.3 | 3.161 | 80.3 |
| FC67248.1 | 2.507 | 63.680 | 3.291 | 83.590 | 0.125 | 3.170 | 0.061 | 0.028 | 7500 | 33.5 | 35000 | 155 | 3300 | 2.618 | 66.5 | 3.260 | 82.8 |
| K 811 13 TN | 2.559 | 65 | 3.543 | 90 | 0.295 | 7.500 | 0.198 | 0.090 | 24100 | 107 | 76000 | 340 | 3700 | 2.638 | 67 | 3.425 | 87 |
| AXK 6590 | 2.559 | 65 | 3.543 | 90 | 0.118 | 3 | 0.077 | 0.035 | 105000 | 465 | 57000 | 255 | 3700 | 2.756 | 70 | 3.465 | 88 |
| K 812 13 TN | 2.559 | 65 | 3.937 | 100 | 0.433 | 11 | 0.408 | 0.185 | 40000 | 177 | 112000 | 500 | 3500 | 2.717 | 69 | 3.780 | 96 |
| K 893 13 TN | 2.559 | 65 | 4.528 | 115 | 0.354 | 9 | 2.933 | 1.330 | 43500 | 194 | 151000 | 670 | 3200 | 2.795 | 71 | 4.449 | 113 |
| K 874 13 | 2.559 | 65 | 5.512 | 140 | 0.394 | 10 | 1.036 | 0.470 | 67000 | 300 | 255000 | 1140 | 2800 | 2.835 | 72 | 5.394 | 137 |
| K 894 13 TN | 2.559 | 65 | 5.512 | 140 | 0.591 | 15 | 1.588 | 0.720 | 100000 | 445 | 315000 | 1410 | 2800 | 2.756 | 70 | 5.315 | 135 |
| K 811 14 TN | 2.756 | 70 | 3.740 | 95 | 0.295 | 7.500 | 0.203 | 0.092 | 25000 | 111 | 82000 | 365 | 3500 | 2.835 | 72 | 3.622 | 92 |
| AXK 7095 | 2.756 | 70 | 3.740 | 95 | 0.158 | 4 | 0.132 | 0.060 | 12100 | 54 | 57000 | 255 | 3500 | 2.913 | 74 | 3.661 | 93 |
| K 812 14 TN | 2.756 | 70 | 4.134 | 105 | 0.433 | 11 | 0.467 | 0.212 | 42000 | 187 | 124000 | 550 | 3300 | 2.913 | 74 | 4.016 | 102 |
| K 893 14 TN | 2.756 | 70 | 4.921 | 125 | 0.394 | 10 | 4.013 | 1.820 | 54000 | 239 | 187000 | 830 | 3000 | 2.992 | 76 | 4.843 | 123 |
| K 874 14 | 2.756 | 70 | 5.906 | 150 | 0.433 | 11 | 1.433 | 0.650 | 81000 | 360 | 310000 | 1380 | 2600 | 2.992 | 76 | 5.787 | 147 |
| K 894 14 | 2.756 | 70 | 5.906 | 150 | 0.630 | 16 | 2.029 | 0.920 | 101000 | 450 | 315000 | 1390 | 2600 | 3.071 | 78 | 5.787 | 147 |
| FC66142.1 | 2.760 | 70.100 | 3.539 | 89.890 | 0.125 | 3.170 | 0.071 | 0.032 | 10000 | 44.5 | 52000 | 232 | 3000 | 2.850 | 72.4 | 3.472 | 88.2 |
| FC66719 | 2.760 | 70.100 | 3.539 | 89.890 | 0.125 | 3.170 | 0.068 | 0.031 | 10000 | 44.5 | 52000 | 231 | 3000 | 2.850 | 72.4 | 3.472 | 88.2 |
| K 811 15 TN | 2.953 | 75 | 3.937 | 100 | 0.295 | 7.500 | 0.212 | 0.096 | 23600 | 105 | 76000 | 340 | 3300 | 3.071 | 78 | 3.819 | 97 |
| AXK 75100 | 2.953 | 75 | 3.937 | 100 | 0.158 | 4 | 0.135 | 0.061 | 12400 | 55 | 60000 | 265 | 3300 | 3.110 | 79 | 3.858 | 98 |
| K 812 15 TN | 2.953 | 75 | 4.331 | 110 | 0.433 | 11 | 0.430 | 0.195 | 38500 | 172 | 112000 | 500 | 3100 | 3.110 | 79 | 4.173 | 106 |
| K 893 15 TN | 2.953 | 75 | 5.315 | 135 | 0.433 | 11 | 4.917 | 2.230 | 64000 | 285 | 227000 | 1010 | 2700 | 3.189 | 81 | 5.197 | 132 |
| K 874 15 | 2.953 | 75 | 6.299 | 160 | 0.472 | 12 | 1.764 | 0.800 | 97000 | 430 | 375000 | 1660 | 2500 | 3.150 | 80 | 6.181 | 157 |
| K 894 15 | 2.953 | 75 | 6.299 | 160 | 0.669 | 17 | 2.359 | 1.070 | 112000 | 500 | 355000 | 1580 | 2500 | 3.307 | 84 | 6.142 | 156 |
| FC67245.1 | 2.961 | 75.209 | 3.94 | 100.076 | 0.157 | 4 | 0.109 | 0.050 | 12000 | 54 | 58000 | 260 | 2700 | 3.232 | 82.1 | 3.866 | 98.2 |
| TC4860 | 3.000 | 76.200 | 3.740 | 95 | 0.078 | 1.984 | 0.049 | 0.022 | 6600 | 29.5 | 42500 | 189 | 2800 | 3.071 | 78 | 3.661 | 93 |
| K 811 16 TN | 3.150 | 80 | 4.134 | 105 | 0.295 | 7.500 | 0.209 | 0.095 | 23800 | 106 | 79000 | 350 | 3100 | 3.268 | 83 | 4.016 | 102 |
| AXK 80105 | 3.150 | 80 | 4.134 | 105 | 0.158 | 4 | 0.139 | 0.063 | 126000 | 560 | 63000 | 280 | 3100 | 3.307 | 84 | 4.055 | 103 |
| K 812 16 TN | 3.150 | 80 | 4.528 | 115 | 0.433 | 11 | 0.516 | 0.234 | 45000 | 201 | 142000 | 630 | 3000 | 3.307 | 84 | 4.409 | 112 |
| K 893 16 TN | 3.150 | 80 | 5.512 | 140 | 0.433 | 11 | 5.226 | 2.370 | 69000 | 305 | 250000 | 1110 | 2600 | 3.386 | 86 | 5.394 | 137 |
| K 874 16 | 3.150 | 80 | 6.693 | 170 | 0.472 | 12 | 1.940 | 0.880 | 101000 | 450 | 405000 | 1810 | 2300 | 3.504 | 89 | 6.575 | 167 |
| K 894 16 | 3.150 | 80 | 6.693 | 170 | 0.709 | 18 | 3.109 | 1.410 | 126000 | 560 | 400000 | 1770 | 2300 | 3.504 | 89 | 6.535 | 166 |
| TC5266 | 3.250 | 82.550 | 4.125 | 104.775 | 0.125 | 3.175 | 0.145 | 0.066 | 10900 | 48.5 | 61000 | 270 | 2600 | 3.350 | 85.1 | 4.000 | 101.6 |
| K 811 17 TN | 3.347 | 85 | 4.331 | 110 | 0.295 | 7.500 | 0.260 | 0.118 | 25000 | 112 | 87000 | 385 | 3000 | 3.425 | 87 | 4.252 | 108 |
| AXK 85110 | 3.347 | 85 | 4.331 | 110 | 0.158 | 4 | 0.148 | 0.067 | 130000 | 580 | 65000 | 290 | 3000 | 3.504 | 89 | 4.252 | 108 |
| K 812 17 TN | 3.347 | 85 | 4.921 | 125 | 0.472 | 12 | 0.617 | 0.280 | 49000 | 217 | 148000 | 660 | 2700 | 3.543 | 90 | 4.685 | 119 |
| K 893 17 | 3.347 | 85 | 5.906 | 150 | 0.472 | 12 | 6.615 | 3 | 73000 | 325 | 255000 | 1140 | 2500 | 3.661 | 93 | 5.787 | 147 |

# Thrust Roller And Cage Assemblies

- Metric and inch
- Needle and cylindrical roller types
- Sorted by bore
- Speed limit shown is for oil lubrication

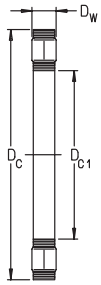



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| PART NUMBER | SHAFT $D_{c1}$ inch | SHAFT $D_{c1}$ mm | OD $D_c$ inch | OD $D_c$ mm | ROLLER DIA. inch | ROLLER DIA. mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | EB INTERNAL RACE DIA. inch | EB INTERNAL RACE DIA. mm | EA EXTERNAL RACE DIA. inch | EA EXTERNAL RACE DIA. mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| K 874 17 | 3.347 | 85 | 7.087 | 180 | 0.512 | 13 | 2.271 | 1.03 | 109000 | 485 | 430000 | 1920 | 2200 | 3.622 | 92 | 6.929 | 176 |
| K 894 17 | 3.347 | 85 | 7.087 | 180 | 0.748 | 19 | 3.550 | 1.61 | 139000 | 620 | 445000 | 1980 | 2200 | 3.701 | 94 | 6.929 | 176 |
| K 811 18 TN | 3.543 | 90 | 4.724 | 120 | 0.354 | 9 | 0.331 | 0.15 | 31500 | 141 | 105000 | 465 | 2700 | 3.661 | 93 | 4.606 | 117 |
| AXK 90120 | 3.543 | 90 | 4.724 | 120 | 0.158 | 4 | 0.190 | 0.086 | 164000 | 730 | 91000 | 405 | 2700 | 3.701 | 94 | 4.646 | 118 |
| K 812 18 TN | 3.543 | 90 | 5.315 | 135 | 0.551 | 14 | 1.195 | 0.542 | 65000 | 290 | 200000 | 890 | 2600 | 3.740 | 95 | 5.079 | 129 |
| K 893 18 | 3.543 | 90 | 6.102 | 155 | 0.472 | 12 | 7.232 | 3.28 | 74000 | 330 | 270000 | 1200 | 2400 | 3.858 | 98 | 5.984 | 152 |
| K 874 18 | 3.543 | 90 | 7.480 | 190 | 0.512 | 13 | 2.492 | 1.13 | 115000 | 510 | 470000 | 2090 | 2100 | 4.016 | 102 | 7.323 | 186 |
| K 894 18 | 3.543 | 90 | 7.480 | 190 | 0.787 | 20 | 4.123 | 1.87 | 153000 | 680 | 495000 | 2200 | 2100 | 3.937 | 100 | 7.323 | 186 |
| K 811 20 TN | 3.937 | 100 | 5.315 | 135 | 0.433 | 11 | 0.551 | 0.25 | 44500 | 199 | 146000 | 650 | 2500 | 4.095 | 104 | 5.158 | 131 |
| AXK 100135 | 3.937 | 100 | 5.315 | 135 | 0.158 | 4 | 0.229 | 0.104 | 205000 | 910 | 126000 | 560 | 2500 | 4.134 | 105 | 5.236 | 133 |
| K 812 20 | 3.937 | 100 | 5.906 | 150 | 0.591 | 15 | 1.323 | 0.6 | 64000 | 285 | 189000 | 840 | 2300 | 4.213 | 107 | 5.591 | 142 |
| K 893 20 | 3.937 | 100 | 6.693 | 170 | 0.512 | 13 | 8.952 | 4.06 | 85000 | 380 | 315000 | 1400 | 2100 | 4.291 | 109 | 6.575 | 167 |
| K 874 20 | 3.937 | 100 | 8.268 | 210 | 0.591 | 15 | 3.660 | 1.66 | 153000 | 680 | 630000 | 2800 | 1900 | 4.331 | 110 | 8.110 | 206 |
| K 894 20 | 3.937 | 100 | 8.268 | 210 | 0.866 | 22 | 5.292 | 2.4 | 191000 | 850 | 640000 | 2850 | 1900 | 4.409 | 112 | 8.110 | 206 |
| TC6681 | 4.125 | 104.775 | 5.063 | 128.588 | 0.125 | 3.175 | 0.071 | 0.032 | 14200 | 63 | 92000 | 410 | 2100 | 4.221 | 107.200 | 4.949 | 125.700 |
| K 811 22 TN | 4.331 | 110 | 5.709 | 145 | 0.433 | 11 | 0.595 | 0.27 | 46500 | 207 | 157000 | 700 | 2300 | 4.488 | 114 | 5.551 | 141 |
| AXK 110145 | 4.331 | 110 | 5.709 | 145 | 0.158 | 4 | 0.269 | 0.122 | 218000 | 970 | 139000 | 620 | 2300 | 4.528 | 115 | 5.630 | 143 |
| K 812 22 | 4.331 | 110 | 6.299 | 160 | 0.591 | 15 | 1.510 | 0.685 | 67000 | 300 | 211000 | 940 | 2100 | 4.606 | 117 | 5.984 | 152 |
| K 893 22 | 4.331 | 110 | 7.480 | 190 | 0.591 | 15 | 13.296 | 6.03 | 112000 | 500 | 420000 | 1870 | 1900 | 4.724 | 120 | 7.323 | 186 |
| K 874 22 | 4.331 | 110 | 9.055 | 230 | 0.669 | 17 | 4.741 | 2.15 | 182000 | 810 | 750000 | 3350 | 1700 | 4.606 | 117 | 8.858 | 225 |
| K 894 22 | 4.331 | 110 | 9.055 | 230 | 0.945 | 24 | 7.277 | 3.3 | 225000 | 1000 | 760000 | 3400 | 1700 | 4.843 | 123 | 8.858 | 225 |
| K 811 24 TN | 4.724 | 120 | 6.102 | 155 | 0.433 | 11 | 0.639 | 0.29 | 45500 | 203 | 157000 | 700 | 2100 | 4.882 | 124 | 5.945 | 151 |
| AXK 120155 | 4.724 | 120 | 6.102 | 155 | 0.158 | 4 | 0.289 | 0.131 | 22900 | 102 | 153000 | 680 | 2100 | 4.921 | 125 | 6.024 | 153 |
| K 812 24 | 4.724 | 120 | 6.693 | 170 | 0.591 | 15 | 1.610 | 0.73 | 70000 | 310 | 220000 | 980 | 2000 | 5.000 | 127 | 6.378 | 162 |
| K 893 24 | 4.724 | 120 | 8.268 | 210 | 0.669 | 17 | 18.787 | 8.52 | 144000 | 640 | 540000 | 2420 | 1700 | 5.118 | 130 | 8.110 | 206 |
| K 874 24 | 4.724 | 120 | 9.843 | 250 | 0.709 | 18 | 6.439 | 2.92 | 216000 | 960 | 920000 | 4100 | 1600 | 5.158 | 131 | 9.606 | 244 |
| K 894 24 | 4.724 | 120 | 9.843 | 250 | 1.024 | 26 | 9.482 | 4.3 | 260000 | 1160 | 900000 | 4000 | 1600 | 5.315 | 135 | 9.646 | 245 |
| K 811 26 TN | 5.118 | 130 | 6.693 | 170 | 0.472 | 12 | 0.838 | 0.38 | 52000 | 233 | 182000 | 810 | 1900 | 5.315 | 135 | 6.496 | 165 |
| AXK 130170 | 5.118 | 130 | 6.693 | 170 | 0.197 | 5 | 0.452 | 0.205 | 30000 | 133 | 189000 | 840 | 1900 | 5.354 | 136 | 6.575 | 167 |
| K 812 26 | 5.118 | 130 | 7.480 | 190 | 0.748 | 19 | 2.523 | 1.144 | 96000 | 425 | 290000 | 1290 | 1800 | 5.394 | 137 | 7.126 | 181 |
| K 893 26 | 5.118 | 130 | 8.858 | 225 | 0.709 | 18 | 22.050 | 10 | 160000 | 710 | 610000 | 2700 | 1600 | 5.551 | 141 | 8.661 | 220 |
| K 874 26 | 5.118 | 130 | 10.630 | 270 | 0.748 | 19 | 7.519 | 3.41 | 236000 | 1050 | 1020000 | 4550 | 1400 | 5.669 | 144 | 10.433 | 265 |
| K 894 26 | 5.118 | 130 | 10.630 | 270 | 1.102 | 28 | 11.025 | 5 | 300000 | 1330 | 1030000 | 4600 | 1400 | 5.787 | 147 | 10.433 | 265 |
| K 811 28 TN | 5.512 | 140 | 7.087 | 180 | 0.472 | 12 | 0.882 | 0.4 | 54000 | 242 | 196000 | 870 | 1800 | 5.709 | 145 | 6.890 | 175 |
| AXK 140180 | 5.512 | 140 | 7.087 | 180 | 0.197 | 5 | 0.483 | 0.219 | 31000 | 138 | 202000 | 900 | 1800 | 5.748 | 146 | 6.969 | 177 |
| K 812 28 | 5.512 | 140 | 7.874 | 200 | 0.748 | 19 | 2.639 | 1.197 | 100000 | 445 | 325000 | 1450 | 1700 | 5.787 | 147 | 7.520 | 191 |
| K 893 28 | 5.512 | 140 | 9.449 | 240 | 0.748 | 19 | 26.438 | 11.99 | 184000 | 820 | 720000 | 3200 | 1500 | 5.984 | 152 | 9.252 | 235 |
| K 874 28 | 5.512 | 140 | 11.024 | 280 | 0.748 | 19 | 8.114 | 3.68 | 250000 | 1110 | 1110000 | 4950 | 1400 | 6.102 | 155 | 10.866 | 276 |
| K 894 28 | 5.512 | 140 | 11.024 | 280 | 1.102 | 28 | 13.230 | 6 | 310000 | 1380 | 1110000 | 4950 | 1400 | 6.181 | 157 | 10.827 | 275 |
| K 811 30 TN | 5.906 | 150 | 7.480 | 190 | 0.472 | 12 | 0.948 | 0.43 | 56000 | 250 | 209000 | 930 | 1700 | 6.102 | 155 | 7.284 | 185 |
| AXK 150190 | 5.906 | 150 | 7.480 | 190 | 0.197 | 5 | 0.512 | 0.232 | 32000 | 143 | 216000 | 960 | 1700 | 6.142 | 156 | 7.362 | 187 |
| K 812 30 | 5.906 | 150 | 8.465 | 215 | 0.827 | 21 | 3.352 | 1.52 | 133000 | 590 | 435000 | 1940 | 1600 | 6.221 | 158 | 8.307 | 211 |
| K 893 30 | 5.906 | 150 | 9.843 | 250 | 0.748 | 19 | 27.849 | 12.63 | 189000 | 840 | 750000 | 3350 | 1400 | 6.378 | 162 | 9.646 | 245 |
| K 874 30 | 5.906 | 150 | 11.811 | 300 | 0.827 | 21 | 9.812 | 4.45 | 285000 | 1260 | 1240000 | 5500 | 1300 | 6.378 | 162 | 11.614 | 295 |
| K 894 30 | 5.906 | 150 | 11.811 | 300 | 1.181 | 30 | 15.656 | 7.1 | 355000 | 1570 | 1280000 | 5700 | 1300 | 6.614 | 168 | 11.614 | 295 |
| K 811 32 | 6.299 | 160 | 7.874 | 200 | 0.472 | 12 | 1.114 | 0.505 | 58000 | 260 | 223000 | 990 | 1600 | 6.496 | 165 | 7.677 | 195 |

# Thrust Roller And Cage Assemblies

- Metric and inch
- Needle and cylindrical roller types
- Sorted by bore
- Speed limit shown is for oil lubrication

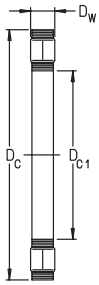



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $D_{c1}$ inch | SHAFT $D_{c1}$ mm | OD $D_c$ inch | OD $D_c$ mm | ROLLER DIA. inch | ROLLER DIA. mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm | EB INTERNAL RACE DIA. inch | EB INTERNAL RACE DIA. mm | EA EXTERNAL RACE DIA. inch | EA EXTERNAL RACE DIA. mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AXK 160200 | 6.299 | 160 | 7.874 | 200 | 0.197 | 5 | 0.542 | 0.246 | 33500 | 148 | 229000 | 1020 | 1600 | 6.535 | 166 | 7.756 | 197 |
| K 812 32 | 6.299 | 160 | 8.858 | 225 | 0.827 | 21 | 3.535 | 1.603 | 135000 | 600 | 455000 | 2030 | 1500 | 6.614 | 168 | 8.661 | 220 |
| K 893 32 | 6.299 | 160 | 10.630 | 270 | 0.827 | 21 | 36.625 | 16.61 | 218000 | 970 | 880000 | 3900 | 1300 | 6.850 | 174 | 10.433 | 265 |
| K 874 32 | 6.299 | 160 | 12.598 | 320 | 0.866 | 22 | 11.753 | 5.33 | 325000 | 1450 | 1480000 | 6600 | 1200 | 6.969 | 177 | 12.441 | 316 |
| K 894 32 | 6.299 | 160 | 12.598 | 320 | 1.260 | 32 | 18.963 | 8.6 | 400000 | 1780 | 1460000 | 6500 | 1200 | 7.047 | 179 | 12.402 | 315 |
| K 811 34 | 6.693 | 170 | 8.465 | 215 | 0.551 | 14 | 1.654 | 0.75 | 73000 | 325 | 275000 | 1220 | 1500 | 6.929 | 176 | 8.228 | 209 |
| K 812 34 | 6.693 | 170 | 9.449 | 240 | 0.866 | 22 | 4.167 | 1.89 | 153000 | 680 | 530000 | 2340 | 1400 | 7.087 | 180 | 9.252 | 235 |
| K 893 34 | 6.693 | 170 | 11.024 | 280 | 0.827 | 21 | 38.279 | 17.36 | 225000 | 1000 | 910000 | 4050 | 1300 | 7.284 | 185 | 10.866 | 276 |
| K 874 34 | 6.693 | 170 | 13.386 | 340 | 0.945 | 24 | 14.862 | 6.74 | 365000 | 1620 | 1640000 | 7300 | 1100 | 7.244 | 184 | 13.189 | 335 |
| K 894 34 | 6.693 | 170 | 13.386 | 340 | 1.339 | 34 | 22.491 | 10.2 | 445000 | 1990 | 1660000 | 7400 | 1100 | 7.520 | 191 | 13.189 | 335 |
| K 811 36 | 7.087 | 180 | 8.858 | 225 | 0.551 | 14 | 1.764 | 0.8 | 76000 | 340 | 290000 | 1300 | 1400 | 7.284 | 185 | 8.622 | 219 |
| K 812 36 | 7.087 | 180 | 9.843 | 250 | 0.866 | 22 | 4.366 | 1.98 | 155000 | 690 | 550000 | 2440 | 1300 | 7.480 | 190 | 9.646 | 245 |
| K 893 36 | 7.087 | 180 | 11.811 | 300 | 0.945 | 24 | 48.753 | 22.11 | 285000 | 1260 | 1150000 | 5100 | 1200 | 7.559 | 192 | 11.614 | 295 |
| K 874 36 | 7.087 | 180 | 14.173 | 360 | 0.984 | 25 | 18.765 | 8.51 | 420000 | 1860 | 1930000 | 8600 | 1100 | 7.756 | 197 | 13.937 | 354 |
| K 894 36 | 7.087 | 180 | 14.173 | 360 | 1.417 | 36 | 26.901 | 12.2 | 495000 | 2210 | 1840000 | 8200 | 1100 | 7.992 | 203 | 13.898 | 353 |
| K 811 38 | 7.480 | 190 | 9.449 | 240 | 0.591 | 15 | 2.073 | 0.94 | 87000 | 385 | 335000 | 1500 | 1300 | 7.756 | 197 | 9.173 | 233 |
| K 812 38 | 7.480 | 190 | 10.630 | 270 | 1.024 | 26 | 6.020 | 2.73 | 198000 | 880 | 670000 | 3000 | 1300 | 7.874 | 200 | 10.433 | 265 |
| K 893 38 | 7.480 | 190 | 12.598 | 320 | 1.024 | 26 | 59.248 | 26.87 | 320000 | 1420 | 1280000 | 5700 | 1100 | 7.992 | 203 | 12.402 | 315 |
| K 874 38 | 7.480 | 190 | 14.961 | 380 | 1.024 | 26 | 19.779 | 8.97 | 445000 | 1990 | 2090000 | 9300 | 1000 | 8.268 | 210 | 14.724 | 374 |
| K 894 38 | 7.480 | 190 | 14.961 | 380 | 1.496 | 38 | 31.973 | 14.5 | 550000 | 2450 | 2070000 | 9200 | 1000 | 8.425 | 214 | 14.685 | 373 |
| K 811 40 | 7.874 | 200 | 9.843 | 250 | 0.591 | 15 | 2.161 | 0.98 | 89000 | 395 | 350000 | 1550 | 1300 | 8.110 | 206 | 9.567 | 243 |
| K 812 40 | 7.874 | 200 | 11.024 | 280 | 1.024 | 26 | 6.813 | 3.09 | 202000 | 900 | 710000 | 3150 | 1200 | 8.268 | 210 | 10.827 | 275 |
| K 893 40 | 7.874 | 200 | 13.386 | 340 | 1.102 | 28 | 70.406 | 31.93 | 365000 | 1630 | 1480000 | 6600 | 1100 | 8.465 | 215 | 13.189 | 335 |
| K 874 40 | 7.874 | 200 | 15.748 | 400 | 1.102 | 28 | 23.770 | 10.78 | 510000 | 2290 | 2410000 | 10700 | 950 | 8.583 | 218 | 15.512 | 394 |
| K 894 40 | 7.874 | 200 | 15.748 | 400 | 1.575 | 40 | 35.721 | 16.2 | 610000 | 2700 | 2290000 | 10200 | 950 | 8.898 | 226 | 15.472 | 393 |
| K 811 44 | 8.661 | 220 | 10.630 | 270 | 0.591 | 15 | 2.911 | 1.32 | 94000 | 420 | 390000 | 1730 | 1200 | 8.898 | 226 | 10.354 | 263 |
| K 812 44 | 8.661 | 220 | 11.811 | 300 | 1.024 | 26 | 7.387 | 3.35 | 211000 | 940 | 780000 | 3450 | 1100 | 9.055 | 230 | 11.654 | 296 |
| K 894 44 | 8.661 | 220 | 16.535 | 420 | 1.575 | 40 | 38.808 | 17.6 | 650000 | 2900 | 2600000 | 11500 | 900 | 9.685 | 246 | 16.260 | 413 |
| K 811 48 | 9.449 | 240 | 11.811 | 300 | 0.709 | 18 | 4.631 | 2.1 | 135000 | 600 | 560000 | 2500 | 1100 | 9.764 | 248 | 11.654 | 296 |
| K 812 48 | 9.449 | 240 | 13.386 | 340 | 1.260 | 32 | 12.458 | 5.65 | 310000 | 1370 | 1120000 | 5000 | 1000 | 10.276 | 261 | 13.189 | 335 |
| K 894 48 | 9.449 | 240 | 17.323 | 440 | 1.575 | 40 | 42.336 | 19.2 | 670000 | 3000 | 2750000 | 12200 | 850 | 10.472 | 266 | 17.047 | 433 |
| K 811 52 | 10.236 | 260 | 12.598 | 320 | 0.709 | 18 | 5.072 | 2.3 | 139000 | 620 | 600000 | 2650 | 1000 | 10.551 | 268 | 12.441 | 316 |
| K 812 52 | 10.236 | 260 | 14.173 | 360 | 1.260 | 32 | 13.451 | 6.1 | 325000 | 1440 | 1210000 | 5400 | 950 | 11.024 | 280 | 13.898 | 353 |
| K 894 52 | 10.236 | 260 | 18.898 | 480 | 1.732 | 44 | 56.228 | 25.5 | 800000 | 3550 | 3300000 | 14600 | 800 | 11.339 | 288 | 18.583 | 472 |
| K 811 56 | 11.024 | 280 | 13.780 | 350 | 0.866 | 22 | 6.615 | 3 | 193000 | 860 | 820000 | 3650 | 900 | 11.339 | 288 | 13.622 | 346 |
| K 812 56 | 11.024 | 280 | 14.961 | 380 | 1.260 | 32 | 14.112 | 6.4 | 330000 | 1460 | 1260000 | 5600 | 850 | 11.811 | 300 | 14.685 | 373 |
| K 894 56 | 11.024 | 280 | 20.472 | 520 | 1.890 | 48 | 67.914 | 30.8 | 940000 | 4200 | 3900000 | 17400 | 700 | 12.244 | 311 | 20.158 | 512 |
| K 811 60 | 11.811 | 300 | 14.961 | 380 | 0.984 | 25 | 10.650 | 4.83 | 238000 | 1060 | 1010000 | 4500 | 850 | 12.402 | 315 | 14.685 | 373 |
| K 812 60 | 11.811 | 300 | 16.535 | 420 | 1.496 | 38 | 22.381 | 10.15 | 435000 | 1930 | 1640000 | 7300 | 800 | 12.913 | 328 | 16.260 | 413 |
| K 894 60 | 11.811 | 300 | 21.260 | 540 | 1.890 | 48 | 72.104 | 32.7 | 970000 | 4300 | 4150000 | 18400 | 700 | 13.032 | 331 | 20.984 | 533 |
| K 811 64 | 12.598 | 320 | 15.748 | 400 | 0.984 | 25 | 11.290 | 5.12 | 247000 | 1100 | 1070000 | 4750 | 800 | 13.150 | 334 | 15.512 | 394 |
| K 812 64 | 12.598 | 320 | 17.323 | 440 | 1.496 | 38 | 23.594 | 10.7 | 440000 | 1960 | 1710000 | 7600 | 750 | 13.701 | 348 | 17.087 | 434 |
| K 811 68 | 13.386 | 340 | 16.535 | 420 | 0.984 | 25 | 12.150 | 5.51 | 255000 | 1130 | 1120000 | 5000 | 750 | 13.937 | 354 | 16.299 | 414 |
| K 812 68 | 13.386 | 340 | 18.110 | 460 | 1.496 | 38 | 24.806 | 11.25 | 465000 | 2060 | 1870000 | 8300 | 700 | 14.449 | 367 | 17.795 | 452 |
| AXK360X390X5 | 14.173 | 360 | 15.354 | 390 | 0.197 | 5 | 0.706 | 0.32 | 38500 | 171 | 330000 | 1470 | 640 | 14.252 | 362 | 15.276 | 388 |
| K 811 72 | 14.173 | 360 | 17.323 | 440 | 0.984 | 25 | 12.238 | 5.55 | 255000 | 1140 | 1150000 | 5100 | 700 | 14.724 | 374 | 17.087 | 434 |

# Thrust Roller And Cage Assemblies

- Metric and inch
- Needle and cylindrical roller types
- Sorted by bore
- Speed limit shown is for oil lubrication

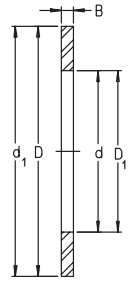



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $D_{c1}$ | SHAFT $D_{c1}$ | OD $D_c$ | OD $D_c$ | ROLLER DIA. | ROLLER DIA. | WEIGHT | WEIGHT | DYN. CAP. | DYN. CAP. | STAT. CAP. | STAT. CAP. | SPEED LIMIT | EB INTERNAL RACE DIA. | EB INTERNAL RACE DIA. | EA EXTERNAL RACE DIA. | EA EXTERNAL RACE DIA. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | inch | mm | inch | mm | inch | mm | lbs | kg | lbf | kN | lbf | kN | rpm | inch | mm | inch | mm |
| K 812 72 | 14.173 | 360 | 19.685 | 500 | 1.772 | 45 | 38.036 | 17.25 | 610000 | 2700 | 2380000 | 10600 | 650 | 15.472 | 393 | 19.370 | 492 |
| K 811 76 | 14.961 | 380 | 18.110 | 460 | 0.984 | 25 | 13.406 | 6.08 | 265000 | 1170 | 1210000 | 5400 | 700 | 15.472 | 393 | 17.835 | 453 |
| K 812 76 | 14.961 | 380 | 20.472 | 520 | 1.772 | 45 | 39.029 | 17.7 | 620000 | 2750 | 2470000 | 11000 | 650 | 16.260 | 413 | 20.118 | 511 |
| K 811 80 | 15.748 | 400 | 18.898 | 480 | 0.984 | 25 | 14.068 | 6.38 | 270000 | 1200 | 1280000 | 5700 | 650 | 16.260 | 413 | 18.622 | 473 |
| K 812 80 | 15.748 | 400 | 21.260 | 540 | 1.772 | 45 | 40.793 | 18.5 | 630000 | 2800 | 2550000 | 11400 | 600 | 17.047 | 433 | 20.906 | 531 |
| K 811 84 | 16.535 | 420 | 19.685 | 500 | 0.984 | 25 | 14.333 | 6.5 | 275000 | 1230 | 1330000 | 5900 | 650 | 17.047 | 433 | 19.409 | 493 |
| K 812 84 | 16.535 | 420 | 22.835 | 580 | 2.047 | 52 | 57.330 | 26 | 790000 | 3500 | 3200000 | 14200 | 600 | 18.071 | 459 | 22.480 | 571 |
| K 811 88 | 17.323 | 440 | 21.260 | 540 | 1.260 | 32 | 25.402 | 11.52 | 400000 | 1780 | 1840000 | 8200 | 600 | 18.071 | 459 | 20.984 | 533 |
| K 812 88 | 17.323 | 440 | 23.622 | 600 | 2.047 | 52 | 59.976 | 27.2 | 810000 | 3600 | 3350000 | 14800 | 550 | 18.858 | 479 | 23.268 | 591 |
| K 811 92 | 18.110 | 460 | 22.047 | 560 | 1.260 | 32 | 26.240 | 11.9 | 415000 | 1840 | 1960000 | 8700 | 550 | 18.858 | 479 | 21.772 | 553 |
| K 812 92 | 18.110 | 460 | 24.409 | 620 | 2.047 | 52 | 62.181 | 28.2 | 820000 | 3650 | 3450000 | 15400 | 550 | 19.646 | 499 | 24.055 | 611 |
| K 811 96 | 18.898 | 480 | 22.835 | 580 | 1.260 | 32 | 27.673 | 12.55 | 420000 | 1860 | 2000000 | 8900 | 550 | 19.685 | 500 | 22.559 | 573 |
| K 812 96 | 18.898 | 480 | 25.591 | 650 | 2.205 | 56 | 74.529 | 33.8 | 920000 | 4100 | 3800000 | 17000 | 500 | 20.472 | 520 | 25.236 | 641 |
| K 811/500 | 19.685 | 500 | 23.622 | 600 | 1.260 | 32 | 28.511 | 12.93 | 430000 | 1910 | 2090000 | 9300 | 500 | 20.433 | 519 | 23.307 | 592 |
| K 812/500 | 19.685 | 500 | 26.378 | 670 | 2.205 | 56 | 77.175 | 35 | 930000 | 4150 | 3950000 | 17600 | 490 | 21.260 | 540 | 26.024 | 661 |
| K 811/530 | 20.866 | 530 | 25.197 | 640 | 1.339 | 34 | 35.236 | 15.98 | 480000 | 2140 | 2360000 | 10500 | 490 | 21.811 | 554 | 24.882 | 632 |
| K 812/530 | 20.866 | 530 | 27.953 | 710 | 2.362 | 60 | 93.161 | 42.25 | 1070000 | 4750 | 4550000 | 20300 | 460 | 22.520 | 572 | 27.598 | 701 |
| AXK560X606X5 | 22.047 | 560 | 23.858 | 606 | 0.197 | 5 | 1.433 | 0.65 | 51000 | 225 | 560000 | 2500 | 410 | 19.764 | 502 | 21.417 | 544 |
| K 811/560 | 22.047 | 560 | 26.378 | 670 | 1.339 | 34 | 37.022 | 16.79 | 490000 | 2190 | 2470000 | 11000 | 470 | 22.992 | 584 | 26.063 | 662 |
| K 812/560 | 22.047 | 560 | 29.528 | 750 | 2.362 | 60 | 103.635 | 47 | 1090000 | 4850 | 4750000 | 21100 | 440 | 24.055 | 611 | 29.173 | 741 |
| K 811/600 | 23.622 | 600 | 27.953 | 710 | 1.339 | 34 | 39.580 | 17.95 | 500000 | 2230 | 2600000 | 11500 | 440 | 24.567 | 624 | 27.638 | 702 |
| K 812/600 | 23.622 | 600 | 31.496 | 800 | 2.520 | 64 | 125.134 | 56.75 | 1240000 | 5500 | 5400000 | 24000 | 410 | 25.630 | 651 | 31.063 | 789 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact

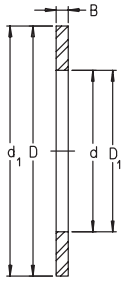



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | HOUSING D inch | HOUSING D mm | THICKNESS B inch | THICKNESS B mm | WEIGHT pounds | WEIGHT kilograms | BORE $D_1$ inch | BORE $D_1$ mm | OD $d_1$ inch | OD $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AS 0414 | 0.158 | 4 | 0.551 | 14 | 0.039 | 1 | 0.002 | 0.001 | 0.158 | 4 | 0.551 | 14 |
| FC67316 | 0.188 | 4.780 | 0.687 | 17.450 | 0.032 | 0.810 | 0.003 | 0.001 | 0.188 | 4.780 | 0.687 | 17.450 |
| AS 0515 | 0.197 | 5 | 0.591 | 15 | 0.039 | 1 | 0.002 | 0.001 | 0.197 | 5 | 0.591 | 15 |
| FC67318 | 0.223 | 5.670 | 0.812 | 20.620 | 0.095 | 2.410 | 0.013 | 0.006 | 0.223 | 5.670 | 0.812 | 20.620 |
| FC69491.1 | 0.232 | 5.893 | 0.770 | 19.558 | 0.032 | 0.810 | 0.031 | 0.014 | 0.232 | 5.893 | 0.770 | 19.558 |
| AS 0619 | 0.236 | 6 | 0.748 | 19 | 0.039 | 1 | 0.004 | 0.002 | 0.236 | 6 | 0.748 | 19 |
| LS 0619 | 0.236 | 6 | 0.748 | 19 | 0.108 | 2.750 | 0.009 | 0.004 | 0.236 | 6 | 0.748 | 19 |
| TWA411 | 0.250 | 6.350 | 0.688 | 17.463 | 0.032 | 0.810 | 0.003 | 0.001 | 0.250 | 6.350 | 0.688 | 17.463 |
| TWB411 | 0.250 | 6.350 | 0.688 | 17.463 | 0.063 | 1.600 | 0.006 | 0.003 | 0.250 | 6.350 | 0.688 | 17.463 |
| TWC411 | 0.250 | 6.350 | 0.688 | 17.463 | 0.092 | 2.337 | 0.008 | 0.004 | 0.250 | 6.350 | 0.688 | 17.463 |
| TWD411 | 0.250 | 6.350 | 0.688 | 17.463 | 0.126 | 3.200 | 0.011 | 0.005 | 0.250 | 6.350 | 0.688 | 17.463 |
| TWA512 | 0.313 | 7.938 | 0.750 | 19.050 | 0.032 | 0.810 | 0.003 | 0.001 | 0.313 | 7.938 | 0.750 | 19.050 |
| TWB512 | 0.313 | 7.938 | 0.750 | 19.050 | 0.063 | 1.600 | 0.007 | 0.003 | 0.313 | 7.938 | 0.750 | 19.050 |
| TWC512 | 0.313 | 7.938 | 0.750 | 19.050 | 0.092 | 2.337 | 0.010 | 0.004 | 0.313 | 7.938 | 0.750 | 19.050 |
| TWD512 | 0.313 | 7.938 | 0.750 | 19.050 | 0.126 | 3.200 | 0.013 | 0.006 | 0.313 | 7.938 | 0.750 | 19.050 |
| AS 0821 | 0.315 | 8 | 0.827 | 21 | 0.039 | 1 | 0.004 | 0.002 | 0.315 | 8 | 0.827 | 21 |
| LS 0821 | 0.315 | 8 | 0.827 | 21 | 0.108 | 2.750 | 0.009 | 0.004 | 0.315 | 8 | 0.827 | 21 |
| TWA613 | 0.375 | 9.525 | 0.813 | 20.638 | 0.032 | 0.810 | 0.003 | 0.001 | 0.375 | 9.525 | 0.813 | 20.638 |
| TWB613 | 0.375 | 9.525 | 0.813 | 20.638 | 0.063 | 1.600 | 0.007 | 0.003 | 0.375 | 9.525 | 0.813 | 20.638 |
| TWC613 | 0.375 | 9.525 | 0.813 | 20.638 | 0.092 | 2.337 | 0.011 | 0.005 | 0.375 | 9.525 | 0.813 | 20.638 |
| TWD613 | 0.375 | 9.525 | 0.813 | 20.638 | 0.126 | 3.200 | 0.015 | 0.007 | 0.375 | 9.525 | 0.813 | 20.638 |
| AS 1024 | 0.394 | 10 | 0.945 | 24 | 0.039 | 1 | 0.007 | 0.003 | 0.394 | 10 | 0.945 | 24 |
| LS 1024 | 0.394 | 10 | 0.945 | 24 | 0.108 | 2.750 | 0.015 | 0.007 | 0.394 | 10 | 0.945 | 24 |
| AS 1226 | 0.472 | 12 | 1.024 | 26 | 0.039 | 1 | 0.007 | 0.003 | 0.472 | 12 | 1.024 | 26 |
| LS 1226 | 0.472 | 12 | 1.024 | 26 | 0.108 | 2.750 | 0.018 | 0.008 | 0.472 | 12 | 1.024 | 26 |
| TWA812 | 0.500 | 12.700 | 0.750 | 19.050 | 0.032 | 0.810 | 0.002 | 0.001 | 0.500 | 12.700 | 0.750 | 19.050 |
| TWB812 | 0.500 | 12.700 | 0.750 | 19.050 | 0.063 | 1.600 | 0.004 | 0.002 | 0.500 | 12.700 | 0.750 | 19.050 |
| TWC812 | 0.500 | 12.700 | 0.750 | 19.050 | 0.092 | 2.337 | 0.006 | 0.003 | 0.500 | 12.700 | 0.750 | 19.050 |
| TWD812 | 0.500 | 12.700 | 0.750 | 19.050 | 0.126 | 3.200 | 0.009 | 0.004 | 0.500 | 12.700 | 0.750 | 19.050 |
| TWA815 | 0.500 | 12.700 | 0.938 | 23.813 | 0.032 | 0.810 | 0.004 | 0.002 | 0.500 | 12.700 | 0.938 | 23.813 |
| TWB815 | 0.500 | 12.700 | 0.938 | 23.813 | 0.063 | 1.600 | 0.009 | 0.004 | 0.500 | 12.700 | 0.938 | 23.813 |
| TWC815 | 0.500 | 12.700 | 0.938 | 23.813 | 0.092 | 2.337 | 0.013 | 0.006 | 0.500 | 12.700 | 0.938 | 23.813 |
| TWD815 | 0.500 | 12.700 | 0.938 | 23.813 | 0.126 | 3.200 | 0.018 | 0.008 | 0.500 | 12.700 | 0.938 | 23.813 |
| TWA916 | 0.563 | 14.290 | 1.000 | 25.400 | 0.032 | 0.810 | 0.004 | 0.002 | 0.563 | 14.290 | 1.000 | 25.400 |
| TWB916 | 0.563 | 14.290 | 1.000 | 25.400 | 0.063 | 1.600 | 0.010 | 0.004 | 0.563 | 14.290 | 1.000 | 25.400 |
| TWC916 | 0.563 | 14.290 | 1.000 | 25.400 | 0.092 | 2.337 | 0.014 | 0.006 | 0.563 | 14.290 | 1.000 | 25.400 |
| TWD916 | 0.563 | 14.290 | 1.000 | 25.400 | 0.126 | 3.200 | 0.019 | 0.009 | 0.563 | 14.290 | 1.000 | 25.400 |
| AS 1528 | 0.591 | 15 | 1.102 | 28 | 0.039 | 1 | 0.007 | 0.003 | 0.591 | 15 | 1.102 | 28 |
| GS 81102 | 0.591 | 15 | 1.102 | 28 | 0.108 | 2.750 | 0.020 | 0.009 | 0.630 | 16 | 1.102 | 28 |
| LS 1528 | 0.591 | 15 | 1.102 | 28 | 0.108 | 2.750 | 0.020 | 0.009 | 0.591 | 15 | 1.102 | 28 |
| WS 81102 | 0.591 | 15 | 1.102 | 28 | 0.108 | 2.750 | 0.020 | 0.009 | 0.591 | 15 | 1.102 | 28 |
| TWA1018 | 0.625 | 15.875 | 1.125 | 28.575 | 0.032 | 0.810 | 0.006 | 0.003 | 0.625 | 15.875 | 1.125 | 28.575 |
| TWB1018 | 0.625 | 15.875 | 1.125 | 28.575 | 0.063 | 1.600 | 0.012 | 0.006 | 0.625 | 15.875 | 1.125 | 28.575 |
| TWC1018 | 0.625 | 15.875 | 1.125 | 28.575 | 0.092 | 2.337 | 0.018 | 0.008 | 0.625 | 15.875 | 1.125 | 28.575 |
| TWD1018 | 0.625 | 15.875 | 1.125 | 28.575 | 0.126 | 3.200 | 0.025 | 0.011 | 0.625 | 15.875 | 1.125 | 28.575 |
| F-228531.2 | 0.632 | 16.050 | 1.378 | 35 | 0.039 | 1 | 0.013 | 0.006 | 0.632 | 16.050 | 1.378 | 350 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact

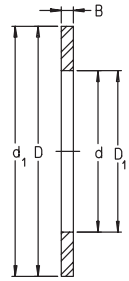



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| PART NUMBER | SHAFT d inch | SHAFT d mm | HOUSING D inch | HOUSING D mm | THICKNESS B inch | THICKNESS B mm | WEIGHT pounds | WEIGHT kilograms | BORE $D_1$ inch | BORE $D_1$ mm | OD $d_1$ inch | OD $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| F-390416.2 | 0.633 | 16.080 | 1.575 | 40 | 0.041 | 1.030 | 0.018 | 0.008 | 0.633 | 16.080 | 1.575 | 400 |
| AS 1730 | 0.669 | 17 | 1.181 | 30 | 0.039 | 1 | 0.009 | 0.004 | 0.669 | 17 | 1.181 | 30 |
| GS 81103 | 0.669 | 17 | 1.181 | 30 | 0.108 | 2.750 | 0.02 | 0.009 | 0.709 | 18 | 1.181 | 30 |
| LS 1730 | 0.669 | 17 | 1.181 | 30 | 0.108 | 2.750 | 0.02 | 0.009 | 0.669 | 17 | 1.181 | 30 |
| WS 81103 | 0.669 | 17 | 1.181 | 30 | 0.108 | 2.750 | 0.02 | 0.009 | 0.669 | 17 | 1.181 | 30 |
| TWA1120 | 0.688 | 17.463 | 1.250 | 31.750 | 0.032 | 0.810 | 0.007 | 0.003 | 0.688 | 17.463 | 1.250 | 31.750 |
| TWB1120 | 0.688 | 17.463 | 1.250 | 31.750 | 0.063 | 1.600 | 0.015 | 0.007 | 0.688 | 17.463 | 1.250 | 31.750 |
| TWC1120 | 0.688 | 17.463 | 1.250 | 31.750 | 0.092 | 2.337 | 0.022 | 0.010 | 0.688 | 17.463 | 1.250 | 31.750 |
| TWD1120 | 0.688 | 17.463 | 1.250 | 31.750 | 0.126 | 3.200 | 0.031 | 0.014 | 0.688 | 17.463 | 1.250 | 31.750 |
| FC68506 | 0.713 | 18.100 | 1.575 | 40 | 0.138 | 3.500 | 0.055 | 0.025 | 0.713 | 18.100 | 1.575 | 40 |
| TWA1220 | 0.750 | 19.050 | 1.250 | 31.750 | 0.032 | 0.810 | 0.006 | 0.003 | 0.750 | 19.050 | 1.250 | 31.750 |
| TWB1220 | 0.750 | 19.050 | 1.250 | 31.750 | 0.063 | 1.600 | 0.014 | 0.006 | 0.750 | 19.050 | 1.250 | 31.750 |
| TWC1220 | 0.750 | 19.050 | 1.250 | 31.750 | 0.092 | 2.337 | 0.020 | 0.009 | 0.750 | 19.050 | 1.250 | 31.750 |
| TWD1220 | 0.750 | 19.050 | 1.250 | 31.750 | 0.126 | 3.200 | 0.028 | 0.013 | 0.750 | 19.050 | 1.250 | 31.750 |
| AS 2035 | 0.787 | 20 | 1.378 | 35 | 0.039 | 1 | 0.011 | 0.005 | 0.787 | 20 | 1.378 | 35 |
| GS 81104 | 0.787 | 20 | 1.378 | 35 | 0.108 | 2.750 | 0.029 | 0.013 | 0.827 | 21 | 1.378 | 35 |
| LS 2035 | 0.787 | 20 | 1.378 | 35 | 0.108 | 2.750 | 0.029 | 0.013 | 0.787 | 20 | 1.378 | 35 |
| WS 81104 | 0.787 | 20 | 1.378 | 35 | 0.108 | 2.750 | 0.029 | 0.013 | 0.787 | 20 | 1.378 | 35 |
| F-200665 | 0.787 | 20 | 1.378 | 35 | 0.142 | 3.600 | 0.011 | 0.004 | 0.787 | 20 | 1.378 | 35 |
| FC67171 | 0.787 | 20 | 1.378 | 35 | 0.079 | 2 | 0.022 | 0.009 | 0.787 | 20 | 1.378 | 35 |
| F-200664 | 0.787 | 20 | 1.448 | 36.780 | 0.118 | 3 | 0.012 | 0.005 | 0.787 | 20 | 1.448 | 36.780 |
| FC67078.1 | 0.800 | 20.310 | 1.575 | 40 | 0.036 | 0.910 | 0.014 | 0.006 | 0.800 | 20.310 | 1.575 | 40 |
| FC69086 | 0.811 | 20.590 | 1.358 | 34.49 | 0.051 | 1.300 | 0.013 | 0.006 | 0.811 | 20.590 | 1.358 | 34.490 |
| F-391042 | 0.845 | 21.460 | 1.437 | 36.500 | 0.036 | 0.910 | 0.009 | 0.004 | 0.845 | 21.460 | 1.437 | 36.500 |
| TWA1423 | 0.875 | 22.225 | 1.438 | 36.513 | 0.032 | 0.810 | 0.008 | 0.004 | 0.875 | 22.225 | 1.438 | 36.513 |
| TWB1423 | 0.875 | 22.225 | 1.438 | 36.513 | 0.063 | 1.600 | 0.018 | 0.008 | 0.875 | 22.225 | 1.438 | 36.513 |
| TWC1423 | 0.875 | 22.225 | 1.438 | 36.513 | 0.092 | 2.337 | 0.027 | 0.012 | 0.875 | 22.225 | 1.438 | 36.513 |
| TWD1423 | 0.875 | 22.225 | 1.438 | 36.513 | 0.126 | 3.200 | 0.036 | 0.017 | 0.875 | 22.225 | 1.438 | 36.513 |
| TWA1427 | 0.875 | 22.225 | 1.688 | 42.863 | 0.032 | 0.810 | 0.014 | 0.006 | 0.875 | 22.225 | 1.688 | 42.863 |
| TWB1427 | 0.875 | 22.225 | 1.688 | 42.863 | 0.063 | 1.600 | 0.029 | 0.013 | 0.875 | 22.225 | 1.688 | 42.863 |
| TWC1427 | 0.875 | 22.225 | 1.688 | 42.863 | 0.092 | 2.337 | 0.043 | 0.019 | 0.875 | 22.225 | 1.688 | 42.863 |
| TWD1427 | 0.875 | 22.225 | 1.688 | 42.863 | 0.126 | 3.200 | 0.058 | 0.026 | 0.875 | 22.225 | 1.688 | 42.863 |
| FC66830 | 0.880 | 22.350 | 1.505 | 38.230 | 0.106 | 2.690 | 0.013 | 0.006 | 0.880 | 22.350 | 1.505 | 38.230 |
| FC67317 | 0.910 | 23.110 | 1.750 | 44.450 | 0.126 | 3.200 | 0.063 | 0.028 | 0.910 | 23.110 | 1.750 | 44.450 |
| FC69012 | 0.949 | 24.110 | 1.777 | 45.140 | 0.032 | 0.810 | 0.015 | 0.007 | 0.949 | 24.110 | 1.777 | 45.140 |
| FC67613 | 0.976 | 24.800 | 1.654 | 42 | 0.157 | 4 | 0.061 | 0.028 | 0.976 | 24.800 | 1.654 | 42 |
| AS 2542 | 0.984 | 25 | 1.654 | 42 | 0.039 | 1 | 0.015 | 0.007 | 0.984 | 25 | 1.654 | 42 |
| GS 81105 | 0.984 | 25 | 1.654 | 42 | 0.118 | 3 | 0.042 | 0.019 | 1.024 | 26 | 1.654 | 42 |
| LS 2542 | 0.984 | 25 | 1.654 | 42 | 0.118 | 3 | 0.042 | 0.019 | 0.984 | 25 | 1.654 | 42 |
| WS 81105 | 0.984 | 25 | 1.654 | 42 | 0.118 | 3 | 0.042 | 0.019 | 0.984 | 25 | 1.654 | 42 |
| TWA1625 | 1.000 | 25.400 | 1.563 | 39.688 | 0.032 | 0.810 | 0.009 | 0.004 | 1.000 | 25.400 | 1.563 | 39.688 |
| TWB1625 | 1.000 | 25.400 | 1.563 | 39.688 | 0.063 | 1.600 | 0.020 | 0.009 | 1.000 | 25.400 | 1.563 | 39.688 |
| TWC1625 | 1.000 | 25.400 | 1.563 | 39.688 | 0.092 | 2.337 | 0.029 | 0.013 | 1.000 | 25.400 | 1.563 | 39.688 |
| TWD1625 | 1.000 | 25.400 | 1.563 | 39.688 | 0.126 | 3.200 | 0.040 | 0.018 | 1.000 | 25.400 | 1.563 | 39.688 |
| FC69442 | 1.000 | 25.400 | 1.563 | 39.688 | 0.126 | 3.200 | 0.037 | 0.017 | 1.000 | 25.400 | 1.563 | 39.688 |
| FC68256 | 1.000 | 25.400 | 1.752 | 44.500 | 0.032 | 0.810 | 0.014 | 0.006 | 1.000 | 25.400 | 1.752 | 44.500 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact

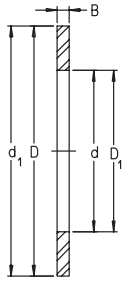



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| PART NUMBER | SHAFT d inch | SHAFT d mm | HOUSING D inch | HOUSING D mm | THICKNESS B inch | THICKNESS B mm | WEIGHT pounds | WEIGHT kilograms | BORE $D_1$ inch | BORE $D_1$ mm | OD $d_1$ inch | OD $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FC66961 | 1.002 | 25.450 | 1.552 | 39.420 | 0.032 | 0.810 | 0.009 | 0.004 | 1.002 | 25.450 | 1.552 | 39.420 |
| FC67614 | 1.035 | 26.300 | 1.654 | 42 | 0.079 | 2 | 0.031 | 0.014 | 1.035 | 26.300 | 1.654 | 42 |
| TWA1828 | 1.125 | 28.575 | 1.750 | 44.450 | 0.032 | 0.810 | 0.012 | 0.005 | 1.125 | 28.575 | 1.750 | 44.450 |
| TWB1828 | 1.125 | 28.575 | 1.750 | 44.450 | 0.063 | 1.600 | 0.025 | 0.011 | 1.125 | 28.575 | 1.750 | 44.450 |
| TWC1828 | 1.125 | 28.575 | 1.750 | 44.450 | 0.092 | 2.337 | 0.037 | 0.017 | 1.125 | 28.575 | 1.750 | 44.450 |
| TWD1828 | 1.125 | 28.575 | 1.750 | 44.450 | 0.126 | 3.200 | 0.050 | 0.023 | 1.125 | 28.575 | 1.750 | 44.450 |
| AS 3047 | 1.181 | 30 | 1.850 | 47 | 0.039 | 1 | 0.018 | 0.008 | 1.181 | 30 | 1.850 | 47 |
| GS 81106 | 1.181 | 30 | 1.850 | 47 | 0.118 | 3 | 0.049 | 0.022 | 1.260 | 32 | 1.850 | 47 |
| LS 3047 | 1.181 | 30 | 1.850 | 47 | 0.118 | 3 | 0.049 | 0.022 | 1.181 | 30 | 1.850 | 47 |
| WS 81106 | 1.181 | 30 | 1.850 | 47 | 0.118 | 3 | 0.049 | 0.022 | 1.181 | 30 | 1.850 | 47 |
| GS 812 06 | 1.181 | 30 | 2.047 | 52 | 0.630 | 16 | 0.099 | 0.045 | 1.260 | 32 | 2.047 | 52 |
| WS 812 06 | 1.181 | 30 | 2.047 | 52 | 0.630 | 16 | 0.099 | 0.045 | 1.181 | 30 | 2.047 | 52 |
| GS 893 06 | 1.181 | 30 | 2.362 | 60 | 0.246 | 6.250 | 0.209 | 0.095 | 1.260 | 32 | 2.362 | 60 |
| WS 893 06 | 1.181 | 30 | 2.362 | 60 | 0.246 | 6.250 | 0.209 | 0.095 | 1.181 | 30 | 2.362 | 60 |
| TWA2031 | 1.250 | 31.750 | 1.938 | 49.213 | 0.032 | 0.810 | 0.014 | 0.006 | 1.250 | 31.750 | 1.938 | 49.213 |
| TWB2031 | 1.250 | 31.750 | 1.938 | 49.213 | 0.063 | 1.600 | 0.031 | 0.014 | 1.250 | 31.750 | 1.938 | 49.213 |
| TWC2031 | 1.250 | 31.750 | 1.938 | 49.213 | 0.092 | 2.337 | 0.045 | 0.020 | 1.250 | 31.750 | 1.938 | 49.213 |
| TWD2031 | 1.250 | 31.750 | 1.938 | 49.213 | 0.126 | 3.200 | 0.061 | 0.028 | 1.250 | 31.750 | 1.938 | 49.213 |
| FC67342 | 1.287 | 32.690 | 1.740 | 44.200 | 0.095 | 2.410 | 0.02 | 0.009 | 1.287 | 32.69 | 1.740 | 44.200 |
| TWA2233 | 1.375 | 34.925 | 2.063 | 52.388 | 0.032 | 0.810 | 0.015 | 0.007 | 1.375 | 34.925 | 2.063 | 52.388 |
| TWB2233 | 1.375 | 34.925 | 2.063 | 52.388 | 0.063 | 1.600 | 0.033 | 0.015 | 1.375 | 34.925 | 2.063 | 52.388 |
| TWC2233 | 1.375 | 34.925 | 2.063 | 52.388 | 0.092 | 2.337 | 0.048 | 0.022 | 1.375 | 34.925 | 2.063 | 52.388 |
| TWD2233 | 1.375 | 34.925 | 2.063 | 52.388 | 0.126 | 3.200 | 0.066 | 0.030 | 1.375 | 34.925 | 2.063 | 52.388 |
| AS 3552 | 1.378 | 35 | 2.047 | 52 | 0.039 | 1 | 0.020 | 0.009 | 1.378 | 35 | 2.047 | 52 |
| GS 81107 | 1.378 | 35 | 2.047 | 52 | 0.138 | 3.5 | 0.064 | 0.029 | 1.457 | 37 | 2.047 | 52 |
| LS 3552 | 1.378 | 35 | 2.047 | 52 | 0.138 | 3.5 | 0.064 | 0.029 | 1.378 | 35 | 2.047 | 52 |
| WS 81107 | 1.378 | 35 | 2.047 | 52 | 0.138 | 3.5 | 0.064 | 0.029 | 1.378 | 35 | 2.047 | 52 |
| FC68959 | 1.378 | 35 | 2.047 | 52 | 0.031 | 0.787 | 0.015 | 0.007 | 1.378 | 35 | 2.047 | 52 |
| GS 812 07 | 1.378 | 35 | 2.441 | 62 | 0.709 | 18 | 0.168 | 0.076 | 1.457 | 37 | 2.441 | 62 |
| WS 812 07 | 1.378 | 35 | 2.441 | 62 | 0.709 | 18 | 0.168 | 0.076 | 1.378 | 35 | 2.441 | 62 |
| FC69635-501 | 1.378 | 35 | 2.441 | 62 | 0.098 | 2.5 | 0.082 | 0.037 | 1.457 | 37 | 2.441 | 62 |
| FC69635-500 | 1.378 | 35 | 2.441 | 62 | 0.207 | 5.250 | 0.182 | 0.083 | 1.378 | 35 | 2.441 | 62 |
| GS 893 07 | 1.378 | 35 | 2.677 | 68 | 0.276 | 7 | 0.295 | 0.134 | 1.457 | 37 | 2.677 | 68 |
| WS 893 07 | 1.378 | 35 | 2.677 | 68 | 0.276 | 7 | 0.295 | 0.134 | 1.378 | 35 | 2.677 | 68 |
| FC67362 | 1.380 | 35.056 | 1.730 | 43.950 | 0.041 | 1.050 | 0.009 | 0.004 | 1.380 | 35.056 | 1.730 | 43.950 |
| FC69678.1 | 1.430 | 36.322 | 1.969 | 50 | 0.118 | 3 | 0.047 | 0.021 | 1.430 | 36.322 | 1.969 | 50 |
| F205060 | 1.493 | 37.920 | 2.362 | 60 | 0.236 | 6 | 0.029 | 0.013 | 1.493 | 37.920 | 2.362 | 60 |
| TWA2435 | 1.500 | 38.100 | 2.188 | 55.563 | 0.032 | 0.810 | 0.017 | 0.008 | 1.500 | 38.100 | 2.188 | 55.563 |
| TWB2435 | 1.500 | 38.100 | 2.188 | 55.563 | 0.063 | 1.600 | 0.035 | 0.016 | 1.500 | 38.100 | 2.188 | 55.563 |
| TWC2435 | 1.500 | 38.100 | 2.188 | 55.563 | 0.092 | 2.337 | 0.052 | 0.024 | 1.500 | 38.100 | 2.188 | 55.563 |
| TWD2435 | 1.500 | 38.100 | 2.188 | 55.563 | 0.126 | 3.200 | 0.071 | 0.032 | 1.500 | 38.100 | 2.188 | 55.563 |
| FC66560 | 1.500 | 38.100 | 2.305 | 58.547 | 0.095 | 2.410 | 0.064 | 0.029 | 1.500 | 38.100 | 2.305 | 58.547 |
| AS 4060 | 1.575 | 40 | 2.362 | 60 | 0.039 | 1 | 0.026 | 0.012 | 1.575 | 40 | 2.362 | 60 |
| GS 81108 | 1.575 | 40 | 2.362 | 60 | 0.138 | 3.5 | 0.088 | 0.040 | 1.654 | 42 | 2.362 | 60 |
| LS 4060 | 1.575 | 40 | 2.362 | 60 | 0.138 | 3.5 | 0.088 | 0.040 | 1.575 | 40 | 2.362 | 60 |
| WS 81108 | 1.575 | 40 | 2.362 | 60 | 0.138 | 3.5 | 0.088 | 0.040 | 1.575 | 40 | 2.362 | 60 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
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- Special Dimensions: F & FC
- Axial contact

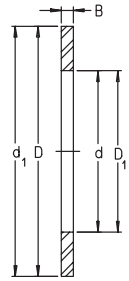



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| PART NUMBER | SHAFT d inch | SHAFT d mm | HOUSING D inch | HOUSING D mm | THICKNESS B inch | THICKNESS B mm | WEIGHT pounds | WEIGHT kilograms | BORE $D_1$ inch | BORE $D_1$ mm | OD $d_1$ inch | OD $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GS 812 08 | 1.575 | 40 | 2.677 | 68 | 0.748 | 19 | 0.185 | 0.084 | 1.654 | 42 | 2.677 | 68 |
| WS 812 08 | 1.575 | 40 | 2.677 | 68 | 0.748 | 19 | 0.185 | 0.084 | 1.575 | 40 | 2.677 | 68 |
| GS 893 08 | 1.575 | 40 | 3.071 | 78 | 0.295 | 7.5 | 0.426 | 0.193 | 1.654 | 42 | 3.071 | 78 |
| WS 893 08 | 1.575 | 40 | 3.071 | 78 | 0.295 | 7.500 | 0.426 | 0.193 | 1.575 | 40 | 3.071 | 78 |
| GS 874 08 | 1.575 | 40 | 3.543 | 90 | 0.325 | 8.250 | 0.684 | 0.310 | 1.654 | 42 | 3.543 | 90 |
| WS 874 08 | 1.575 | 40 | 3.543 | 90 | 0.325 | 8.250 | 0.684 | 0.310 | 1.575 | 40 | 3.543 | 90 |
| F-210510.1 | 1.577 | 40.050 | 2.181 | 55.400 | 0.114 | 2.900 | 0.025 | 0.011 | 1.577 | 40.050 | 2.181 | 55.400 |
| F205061 | 1.691 | 42.950 | 2.480 | 63 | 0.041 | 1.050 | 0.028 | 0.013 | 1.691 | 42.950 | 2.480 | 63 |
| FC67381.1 | 1.750 | 44.450 | 2.375 | 60.325 | 0.095 | 2.410 | 0.052 | 0.024 | 1.750 | 44.450 | 2.375 | 60.325 |
| TWA2840 | 1.750 | 44.450 | 2.500 | 63.500 | 0.032 | 0.810 | 0.021 | 0.009 | 1.750 | 44.450 | 2.500 | 63.500 |
| TWA2870 | 1.750 | 44.450 | 2.500 | 63.500 | 0.032 | 0.810 | 0.021 | 0.009 | 1.750 | 44.450 | 2.500 | 63.500 |
| TWB2840 | 1.750 | 44.450 | 2.500 | 63.500 | 0.063 | 1.600 | 0.045 | 0.020 | 1.750 | 44.450 | 2.500 | 63.500 |
| TWB2870 | 1.750 | 44.450 | 2.500 | 63.500 | 0.063 | 1.600 | 0.045 | 0.020 | 1.750 | 44.450 | 2.500 | 63.500 |
| TWC2840 | 1.750 | 44.450 | 2.500 | 63.500 | 0.092 | 2.337 | 0.065 | 0.030 | 1.750 | 44.450 | 2.500 | 63.500 |
| TWC2870 | 1.750 | 44.450 | 2.500 | 63.500 | 0.092 | 2.337 | 0.065 | 0.030 | 1.750 | 44.450 | 2.500 | 63.500 |
| TWD2840 | 1.750 | 44.450 | 2.500 | 63.500 | 0.126 | 3.200 | 0.089 | 0.040 | 1.750 | 44.450 | 2.500 | 63.500 |
| TWD2870 | 1.750 | 44.450 | 2.500 | 63.500 | 0.126 | 3.200 | 0.089 | 0.040 | 1.750 | 44.450 | 2.500 | 63.500 |
| F-390079 | 1.750 | 44.450 | 2.500 | 63.500 | 0.032 | 0.810 | 0.021 | 0.009 | 1.750 | 44.450 | 2.500 | 63.500 |
| FC66671 | 1.752 | 44.500 | 2.415 | 61.340 | 0.095 | 2.410 | 0.058 | 0.026 | 1.752 | 44.500 | 2.415 | 61.340 |
| FC68999 | 1.756 | 44.610 | 2.999 | 76.170 | 0.040 | 1.010 | 0.051 | 0.023 | 1.756 | 44.610 | 2.999 | 76.170 |
| AS 4565 | 1.772 | 45 | 2.559 | 65 | 0.039 | 1 | 0.029 | 0.013 | 1.772 | 45 | 2.559 | 65 |
| GS 81109 | 1.772 | 45 | 2.559 | 65 | 0.158 | 4 | 0.110 | 0.050 | 1.850 | 47 | 2.559 | 65 |
| LS 4565 | 1.772 | 45 | 2.559 | 65 | 0.158 | 4 | 0.110 | 0.050 | 1.772 | 45 | 2.559 | 65 |
| WS 81109 | 1.772 | 45 | 2.559 | 65 | 0.158 | 4 | 0.110 | 0.050 | 1.772 | 45 | 2.559 | 65 |
| GS 812 09 | 1.772 | 45 | 2.874 | 73 | 0.787 | 20 | 0.223 | 0.101 | 1.850 | 47 | 2.874 | 73 |
| WS 812 09 | 1.772 | 45 | 2.874 | 73 | 0.787 | 20 | 0.223 | 0.101 | 1.772 | 45 | 2.874 | 73 |
| GS 893 09 | 1.772 | 45 | 3.347 | 85 | 0.325 | 8.250 | 0.545 | 0.247 | 1.850 | 47 | 3.347 | 85 |
| WS 893 09 | 1.772 | 45 | 3.347 | 85 | 0.325 | 8.250 | 0.545 | 0.247 | 1.772 | 45 | 3.347 | 85 |
| GS 874 09 | 1.772 | 45 | 3.937 | 100 | 0.354 | 9 | 0.970 | 0.440 | 1.850 | 47 | 3.937 | 100 |
| WS 874 09 | 1.772 | 45 | 3.937 | 100 | 0.354 | 9 | 0.970 | 0.440 | 1.772 | 45 | 3.937 | 100 |
| AS 5070 | 1.969 | 50 | 2.756 | 70 | 0.039 | 1 | 0.031 | 0.014 | 1.969 | 50 | 2.756 | 70 |
| GS 81110 | 1.969 | 50 | 2.756 | 70 | 0.158 | 4 | 0.121 | 0.055 | 2.047 | 52 | 2.756 | 70 |
| LS 5070 | 1.969 | 50 | 2.756 | 70 | 0.158 | 4 | 0.121 | 0.055 | 1.969 | 50 | 2.756 | 70 |
| WS 81110 | 1.969 | 50 | 2.756 | 70 | 0.158 | 4 | 0.121 | 0.055 | 1.969 | 50 | 2.756 | 70 |
| GS 812 10 | 1.969 | 50 | 3.071 | 78 | 0.866 | 22 | 0.284 | 0.129 | 2.047 | 52 | 3.071 | 78 |
| WS 812 10 | 1.969 | 50 | 3.071 | 78 | 0.866 | 22 | 0.284 | 0.129 | 1.969 | 50 | 3.071 | 78 |
| GS 893 10 | 1.969 | 50 | 3.740 | 95 | 0.374 | 9.5 | 0.785 | 0.356 | 2.047 | 52 | 3.740 | 95 |
| WS 893 10 | 1.969 | 50 | 3.740 | 95 | 0.374 | 9.5 | 0.785 | 0.356 | 1.969 | 50 | 3.740 | 95 |
| GS 874 10 | 1.969 | 50 | 4.331 | 110 | 0.374 | 9.5 | 1.169 | 0.530 | 2.047 | 52 | 4.331 | 110 |
| WS 874 10 | 1.969 | 50 | 4.331 | 110 | 0.374 | 9.5 | 1.169 | 0.530 | 1.969 | 50 | 4.331 | 110 |
| TWA3244 | 2.000 | 50.800 | 2.750 | 69.850 | 0.032 | 0.810 | 0.023 | 0.011 | 2.000 | 50.800 | 2.750 | 69.850 |
| TWB3244 | 2.000 | 50.800 | 2.750 | 69.850 | 0.063 | 1.600 | 0.050 | 0.023 | 2.000 | 50.800 | 2.750 | 69.850 |
| TWC3244 | 2.000 | 50.800 | 2.750 | 69.850 | 0.092 | 2.337 | 0.073 | 0.033 | 2.000 | 50.800 | 2.750 | 69.850 |
| TWD3244 | 2.000 | 50.800 | 2.750 | 69.850 | 0.126 | 3.200 | 0.100 | 0.045 | 2.000 | 50.800 | 2.750 | 69.850 |
| FC68429 | 2.000 | 50.800 | 2.970 | 75.438 | 0.032 | 0.813 | 0.033 | 0.015 | 2.000 | 50.800 | 2.970 | 75.438 |
| TWA3446 | 2.125 | 53.975 | 2.875 | 73.020 | 0.032 | 0.810 | 0.025 | 0.011 | 2.125 | 53.975 | 2.875 | 73.020 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact

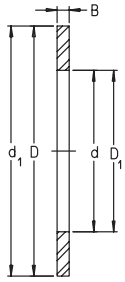



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| PART NUMBER | SHAFT d inch | SHAFT d mm | HOUSING D inch | HOUSING D mm | THICKNESS B inch | THICKNESS B mm | WEIGHT pounds | WEIGHT kilograms | BORE $D_1$ inch | BORE $D_1$ mm | OD $d_1$ inch | OD $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TWB3446 | 2.125 | 53.975 | 2.875 | 73.020 | 0.063 | 1.600 | 0.052 | 0.024 | 2.125 | 53.975 | 2.875 | 73.020 |
| TWC3446 | 2.125 | 53.975 | 2.875 | 73.020 | 0.092 | 2.337 | 0.077 | 0.035 | 2.125 | 53.975 | 2.875 | 73.020 |
| TWD3446 | 2.125 | 53.975 | 2.875 | 73.020 | 0.126 | 3.200 | 0.105 | 0.048 | 2.125 | 53.975 | 2.875 | 73.020 |
| AS 5578 | 2.165 | 55 | 3.071 | 78 | 0.039 | 1 | 0.040 | 0.018 | 2.165 | 55 | 3.071 | 78 |
| GS 81111 | 2.165 | 55 | 3.071 | 78 | 0.197 | 5 | 0.194 | 0.088 | 2.244 | 57 | 3.071 | 78 |
| LS 5578 | 2.165 | 55 | 3.071 | 78 | 0.197 | 5 | 0.194 | 0.088 | 2.165 | 55 | 3.071 | 78 |
| WS 81111 | 2.165 | 55 | 3.071 | 78 | 0.197 | 5 | 0.194 | 0.088 | 2.165 | 55 | 3.071 | 78 |
| GS 812 11 | 2.165 | 55 | 3.543 | 90 | 0.984 | 25 | 0.443 | 0.201 | 2.244 | 57 | 3.543 | 90 |
| WS 812 11 | 2.165 | 55 | 3.543 | 90 | 0.984 | 25 | 0.443 | 0.201 | 2.165 | 55 | 3.543 | 90 |
| GS 893 11 | 2.165 | 55 | 4.134 | 105 | 0.413 | 10.5 | 1.069 | 0.485 | 2.244 | 57 | 4.134 | 105 |
| WS 893 11 | 2.165 | 55 | 4.134 | 105 | 0.413 | 10.5 | 1.069 | 0.485 | 2.165 | 55 | 4.134 | 105 |
| GS 874 11 | 2.165 | 55 | 4.724 | 120 | 0.413 | 10.5 | 1.539 | 0.698 | 2.244 | 57 | 4.724 | 120 |
| WS 874 11 | 2.165 | 55 | 4.724 | 120 | 0.413 | 10.5 | 1.539 | 0.698 | 2.165 | 55 | 4.724 | 120 |
| FC66137 | 2.183 | 55.450 | 3.005 | 76.330 | 0.134 | 3.400 | 0.050 | 0.022 | 2.183 | 55.450 | 3.005 | 76.330 |
| FC66718 | 2.183 | 55.450 | 3.005 | 76.330 | 0.134 | 3.400 | 0.009 | 0.004 | 2.183 | 55.450 | 3.005 | 76.330 |
| FC68883 | 2.244 | 57 | 3.209 | 81.500 | 0.157 | 4 | 0.181 | 0.082 | 2.244 | 57 | 3.209 | 81.5 |
| TWA3648 | 2.250 | 57.150 | 3.000 | 76.200 | 0.032 | 0.810 | 0.026 | 0.012 | 2.250 | 57.150 | 3.000 | 76.200 |
| TWB3648 | 2.250 | 57.150 | 3.000 | 76.200 | 0.063 | 1.600 | 0.055 | 0.025 | 2.250 | 57.150 | 3.000 | 76.200 |
| TWC3648 | 2.250 | 57.150 | 3.000 | 76.200 | 0.092 | 2.337 | 0.081 | 0.037 | 2.250 | 57.150 | 3.000 | 76.200 |
| TWD3648 | 2.250 | 57.150 | 3.000 | 76.200 | 0.126 | 3.200 | 0.110 | 0.050 | 2.250 | 57.150 | 3.000 | 76.200 |
| FC66138 | 2.252 | 57.200 | 2.990 | 75.950 | 0.032 | 0.810 | 0.038 | 0.017 | 2.252 | 57.200 | 2.990 | 75.950 |
| FC66505 | 2.252 | 57.200 | 2.990 | 75.950 | 0.032 | 0.810 | 0.004 | 0.002 | 2.252 | 57.200 | 2.990 | 75.950 |
| AS 6085 | 2.362 | 60 | 3.347 | 85 | 0.039 | 1 | 0.049 | 0.022 | 2.362 | 60 | 3.347 | 85 |
| GS 81112 | 2.362 | 60 | 3.347 | 85 | 0.187 | 4.750 | 0.214 | 0.097 | 2.441 | 62 | 3.347 | 85 |
| LS 6085 | 2.362 | 60 | 3.347 | 85 | 0.187 | 4.750 | 0.214 | 0.097 | 2.362 | 60 | 3.347 | 85 |
| WS 81112 | 2.362 | 60 | 3.347 | 85 | 0.187 | 4.750 | 0.214 | 0.097 | 2.362 | 60 | 3.347 | 85 |
| GS 812 12 | 2.362 | 60 | 3.740 | 95 | 1.024 | 26 | 0.514 | 0.233 | 2.441 | 62 | 3.740 | 95 |
| WS 812 12 | 2.362 | 60 | 3.740 | 95 | 1.024 | 26 | 0.514 | 0.233 | 2.362 | 60 | 3.740 | 95 |
| GS 893 12 | 2.362 | 60 | 4.331 | 110 | 0.413 | 10.5 | 1.140 | 0.517 | 2.441 | 62 | 4.331 | 110 |
| WS 893 12 | 2.362 | 60 | 4.331 | 110 | 0.413 | 10.5 | 1.140 | 0.517 | 2.362 | 60 | 4.331 | 110 |
| GS 874 12 | 2.362 | 60 | 5.118 | 130 | 0.453 | 11.5 | 2.073 | 0.940 | 2.441 | 62 | 5.118 | 130 |
| WS 874 12 | 2.362 | 60 | 5.118 | 130 | 0.453 | 11.5 | 2.073 | 0.940 | 2.362 | 60 | 5.118 | 130 |
| GS 894 12 | 2.362 | 60 | 5.118 | 130 | 0.551 | 14 | 2.459 | 1.115 | 2.441 | 62 | 5.118 | 130 |
| WS 894 12 | 2.362 | 60 | 5.118 | 130 | 0.551 | 14 | 2.459 | 1.115 | 2.362 | 60 | 5.118 | 130 |
| FC66668 | 2.436 | 61.880 | 3.268 | 83 | 0.032 | 0.810 | 0.187 | 0.085 | 2.436 | 61.880 | 3.268 | 83 |
| FC67976 | 2.480 | 63 | 3.375 | 85.720 | 0.268 | 6.800 | 0.067 | 0.030 | 2.480 | 63 | 3.375 | 85.720 |
| TWA4052 | 2.500 | 63.500 | 3.250 | 82.550 | 0.032 | 0.810 | 0.028 | 0.013 | 2.500 | 63.500 | 3.250 | 82.550 |
| TWB4052 | 2.500 | 63.500 | 3.250 | 82.550 | 0.063 | 1.600 | 0.060 | 0.027 | 2.500 | 63.500 | 3.250 | 82.550 |
| TWC4052 | 2.500 | 63.500 | 3.250 | 82.550 | 0.092 | 2.337 | 0.088 | 0.040 | 2.500 | 63.500 | 3.250 | 82.550 |
| TWD4052 | 2.500 | 63.500 | 3.250 | 82.550 | 0.126 | 3.200 | 0.121 | 0.055 | 2.500 | 63.500 | 3.250 | 82.550 |
| FC66667 | 2.502 | 63.550 | 3.268 | 83 | 0.039 | 1 | 0.038 | 0.017 | 2.502 | 63.550 | 3.268 | 83 |
| FC66140 | 2.510 | 63.760 | 3.620 | 91.950 | 0.032 | 0.810 | 0.047 | 0.021 | 2.510 | 63.760 | 3.620 | 91.950 |
| AS 6590 | 2.559 | 65 | 3.543 | 90 | 0.039 | 1 | 0.053 | 0.024 | 2.559 | 65 | 3.543 | 90 |
| GS 81113 | 2.559 | 65 | 3.543 | 90 | 0.207 | 5.250 | 0.254 | 0.115 | 2.638 | 67 | 3.543 | 90 |
| LS 6590 | 2.559 | 65 | 3.543 | 90 | 0.207 | 5.250 | 0.254 | 0.115 | 2.559 | 65 | 3.543 | 90 |
| WS 81113 | 2.559 | 65 | 3.543 | 90 | 0.207 | 5.250 | 0.254 | 0.115 | 2.559 | 65 | 3.543 | 90 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact

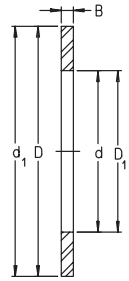



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| PART NUMBER | SHAFT d inch | SHAFT d mm | HOUSING D inch | HOUSING D mm | THICKNESS B inch | THICKNESS B mm | WEIGHT pounds | WEIGHT kilograms | BORE $D_1$ inch | BORE $D_1$ mm | OD $d_1$ inch | OD $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GS 812 13 | 2.559 | 65 | 3.937 | 100 | 1.063 | 27 | 0.591 | 0.268 | 2.638 | 67 | 3.937 | 100 |
| WS 812 13 | 2.559 | 65 | 3.937 | 100 | 1.063 | 27 | 0.591 | 0.268 | 2.559 | 65 | 3.937 | 100 |
| GS 893 13 | 2.559 | 65 | 4.528 | 115 | 0.413 | 10.5 | 1.180 | 0.535 | 2.638 | 67 | 4.528 | 115 |
| WS 893 13 | 2.559 | 65 | 4.528 | 115 | 0.413 | 10.5 | 1.180 | 0.535 | 2.559 | 65 | 4.528 | 115 |
| GS 874 13 | 2.559 | 65 | 5.512 | 140 | 0.472 | 12 | 2.514 | 1.140 | 2.677 | 68 | 5.512 | 140 |
| WS 874 13 | 2.559 | 65 | 5.512 | 140 | 0.472 | 12 | 2.514 | 1.14 | 2.559 | 65 | 5.512 | 140 |
| GS 894 13 | 2.559 | 65 | 5.512 | 140 | 0.591 | 15 | 3.087 | 1.4 | 2.677 | 68 | 5.512 | 140 |
| WS 894 13 | 2.559 | 65 | 5.512 | 140 | 0.591 | 15 | 3.087 | 1.4 | 2.559 | 65 | 5.512 | 140 |
| FC67083 | 2.677 | 68 | 3.937 | 100 | 0.039 | 1 | 0.064 | 0.029 | 2.677 | 68 | 3.937 | 100 |
| FC67084 | 2.677 | 68 | 3.937 | 100 | 0.032 | 0.810 | 0.06 | 0.027 | 2.677 | 68 | 3.937 | 100 |
| FC66720 | 2.683 | 68.150 | 3.626 | 92.100 | 0.138 | 3.5 | 0.023 | 0.010 | 2.683 | 68.150 | 3.626 | 92.100 |
| FC66139 | 2.683 | 68.150 | 3.626 | 92.100 | 0.138 | 3.5 | 0.046 | 0.021 | 2.683 | 68.150 | 3.626 | 92.100 |
| TWA4458 | 2.750 | 69.850 | 3.625 | 92.075 | 0.032 | 0.810 | 0.037 | 0.017 | 2.750 | 69.850 | 3.625 | 92.075 |
| TWB4458 | 2.750 | 69.850 | 3.625 | 92.075 | 0.063 | 1.600 | 0.078 | 0.035 | 2.750 | 69.850 | 3.625 | 92.075 |
| TWC4458 | 2.750 | 69.850 | 3.625 | 92.075 | 0.092 | 2.337 | 0.114 | 0.052 | 2.750 | 69.850 | 3.625 | 92.075 |
| TWD4458 | 2.750 | 69.850 | 3.625 | 92.075 | 0.126 | 3.200 | 0.156 | 0.071 | 2.750 | 69.850 | 3.625 | 92.075 |
| FC66507 | 2.752 | 69.900 | 3.620 | 91.950 | 0.032 | 0.810 | 0.007 | 0.003 | 2.752 | 69.900 | 3.620 | 91.950 |
| AS 7095 | 2.756 | 70 | 3.740 | 95 | 0.039 | 1 | 0.055 | 0.025 | 2.756 | 70 | 3.740 | 95 |
| GS 81114 | 2.756 | 70 | 3.740 | 95 | 0.207 | 5.250 | 0.271 | 0.123 | 2.835 | 72 | 3.740 | 95 |
| LS 7095 | 2.756 | 70 | 3.740 | 95 | 0.207 | 5.250 | 0.271 | 0.123 | 2.756 | 70 | 3.740 | 95 |
| WS 81114 | 2.756 | 70 | 3.740 | 95 | 0.207 | 5.250 | 0.271 | 0.123 | 2.756 | 70 | 3.740 | 95 |
| GS 812 14 | 2.756 | 70 | 4.134 | 105 | 1.063 | 27 | 0.613 | 0.278 | 2.835 | 72 | 4.134 | 105 |
| WS 812 14 | 2.756 | 70 | 4.134 | 105 | 1.063 | 27 | 0.613 | 0.278 | 2.756 | 70 | 4.134 | 105 |
| GS 893 14 | 2.756 | 70 | 4.921 | 125 | 0.472 | 12 | 1.764 | 0.8 | 2.835 | 72 | 4.921 | 125 |
| WS 893 14 | 2.756 | 70 | 4.921 | 125 | 0.472 | 12 | 1.764 | 0.8 | 2.756 | 70 | 4.921 | 125 |
| GS 874 14 | 2.756 | 70 | 5.906 | 150 | 0.492 | 12.5 | 2.999 | 1.36 | 2.874 | 73 | 5.906 | 150 |
| WS 874 14 | 2.756 | 70 | 5.906 | 150 | 0.492 | 12.5 | 2.999 | 1.36 | 2.756 | 70 | 5.906 | 150 |
| GS 894 14 | 2.756 | 70 | 5.906 | 150 | 0.630 | 16 | 3.815 | 1.73 | 2.874 | 73 | 5.906 | 150 |
| WS 894 14 | 2.756 | 70 | 5.906 | 150 | 0.630 | 16 | 3.815 | 1.73 | 2.756 | 70 | 5.906 | 150 |
| AS 75100 | 2.953 | 75 | 3.937 | 100 | 0.039 | 1 | 0.06 | 0.027 | 2.953 | 75 | 3.937 | 100 |
| GS 81115 | 2.953 | 75 | 3.937 | 100 | 0.226 | 5.750 | 0.313 | 0.142 | 3.032 | 77 | 3.937 | 100 |
| LS 75100 | 2.953 | 75 | 3.937 | 100 | 0.226 | 5.750 | 0.313 | 0.142 | 2.953 | 75 | 3.937 | 100 |
| WS 81115 | 2.953 | 75 | 3.937 | 100 | 0.226 | 5.750 | 0.313 | 0.142 | 2.953 | 75 | 3.937 | 100 |
| GS 812 15 | 2.953 | 75 | 4.331 | 110 | 1.063 | 27 | 0.646 | 0.293 | 3.032 | 77 | 4.331 | 110 |
| WS 812 15 | 2.953 | 75 | 4.331 | 110 | 1.063 | 27 | 0.646 | 0.293 | 2.953 | 75 | 4.331 | 110 |
| GS 893 15 | 2.953 | 75 | 5.315 | 135 | 0.492 | 12.5 | 2.139 | 0.97 | 3.032 | 77 | 5.315 | 135 |
| WS 893 15 | 2.953 | 75 | 5.315 | 135 | 0.492 | 12.5 | 2.139 | 0.97 | 2.953 | 75 | 5.315 | 135 |
| GS 874 15 | 2.953 | 75 | 6.299 | 160 | 0.512 | 13 | 3.55 | 1.61 | 3.071 | 78 | 6.299 | 160 |
| WS 874 15 | 2.953 | 75 | 6.299 | 160 | 0.512 | 13 | 3.55 | 1.61 | 2.953 | 75 | 6.299 | 160 |
| GS 894 15 | 2.953 | 75 | 6.299 | 160 | 0.669 | 17 | 4.608 | 2.09 | 3.071 | 78 | 6.299 | 160 |
| WS 894 15 | 2.953 | 75 | 6.299 | 160 | 0.669 | 17 | 4.608 | 2.09 | 2.953 | 75 | 6.299 | 160 |
| TWA4860 | 3.000 | 76.200 | 3.750 | 95.250 | 0.032 | 0.810 | 0.033 | 0.015 | 3.000 | 76.200 | 3.750 | 95.250 |
| TWB4860 | 3.000 | 76.200 | 3.750 | 95.250 | 0.063 | 1.600 | 0.071 | 0.032 | 3.000 | 76.200 | 3.750 | 95.250 |
| TWC4860 | 3.000 | 76.200 | 3.750 | 95.250 | 0.092 | 2.337 | 0.104 | 0.047 | 3.000 | 76.200 | 3.750 | 95.250 |
| TWD4860 | 3.000 | 76.200 | 3.750 | 95.250 | 0.126 | 3.200 | 0.142 | 0.064 | 3.000 | 76.200 | 3.750 | 95.250 |
| F-390569 | 3.004 | 76.300 | 3.749 | 95.230 | 0.039 | 1 | 0.044 | 0.019 | 3.004 | 76.300 | 3.749 | 95.230 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact

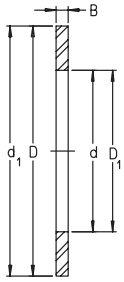



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| PART NUMBER | SHAFT d inch | SHAFT d mm | HOUSING D inch | HOUSING D mm | THICKNESS B inch | THICKNESS B mm | WEIGHT pounds | WEIGHT kilograms | BORE $D_1$ inch | BORE $D_1$ mm | OD $d_1$ inch | OD $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| FC68400 | 3.049 | 77.450 | 3.756 | 95.400 | 0.077 | 1.950 | 0.08 | 0.036 | 3.049 | 77.450 | 3.756 | 95.400 |
| FC68399A | 3.075 | 78.100 | 3.833 | 97.350 | 0.069 | 1.740 | 0.078 | 0.035 | 3.075 | 78.100 | 3.833 | 97.350 |
| FC68399C | 3.075 | 78.100 | 3.833 | 97.350 | 0.071 | 1.800 | 0.081 | 0.036 | 3.075 | 78.100 | 3.833 | 97.350 |
| FC68399D | 3.075 | 78.100 | 3.833 | 97.350 | 0.072 | 1.830 | 0.082 | 0.037 | 3.075 | 78.100 | 3.833 | 97.350 |
| FC68399E | 3.075 | 78.100 | 3.833 | 97.350 | 0.073 | 1.860 | 0.083 | 0.037 | 3.075 | 78.100 | 3.833 | 97.350 |
| FC68399F | 3.075 | 78.100 | 3.833 | 97.350 | 0.074 | 1.890 | 0.085 | 0.038 | 3.075 | 78.100 | 3.833 | 97.350 |
| FC68399G | 3.075 | 78.100 | 3.833 | 97.350 | 0.076 | 1.920 | 0.086 | 0.039 | 3.075 | 78.100 | 3.833 | 97.350 |
| FC68399H | 3.075 | 78.100 | 3.833 | 97.350 | 0.077 | 1.950 | 0.087 | 0.039 | 3.075 | 78.100 | 3.833 | 97.350 |
| FC69240.1 | 3.075 | 78.100 | 3.833 | 97.350 | 0.077 | 1.960 | 0.084 | 0.038 | 3.075 | 78.100 | 3.833 | 97.350 |
| AS 80105 | 3.150 | 80 | 4.134 | 105 | 0.039 | 1 | 0.062 | 0.028 | 3.150 | 80 | 4.134 | 105 |
| GS 81116 | 3.150 | 80 | 4.134 | 105 | 0.226 | 5.750 | 0.333 | 0.151 | 3.228 | 82 | 4.134 | 105 |
| LS 80105 | 3.150 | 80 | 4.134 | 105 | 0.226 | 5.750 | 0.333 | 0.151 | 3.150 | 80 | 4.134 | 105 |
| WS 81116 | 3.150 | 80 | 4.134 | 105 | 0.226 | 5.750 | 0.333 | 0.151 | 3.150 | 80 | 4.134 | 105 |
| GS 812 16 | 3.150 | 80 | 4.528 | 115 | 1.102 | 28 | 0.734 | 0.333 | 3.228 | 82 | 4.528 | 115 |
| WS 812 16 | 3.150 | 80 | 4.528 | 115 | 1.102 | 28 | 0.734 | 0.333 | 3.150 | 80 | 4.528 | 115 |
| GS 893 16 | 3.150 | 80 | 5.512 | 140 | 0.492 | 12.5 | 2.249 | 1.020 | 3.228 | 82 | 5.512 | 140 |
| WS 893 16 | 3.150 | 80 | 5.512 | 140 | 0.492 | 12.5 | 2.249 | 1.020 | 3.150 | 80 | 5.512 | 140 |
| GS 874 16 | 3.150 | 80 | 6.693 | 170 | 0.571 | 14.5 | 4.900 | 2.222 | 3.268 | 83 | 6.693 | 170 |
| WS 874 16 | 3.150 | 80 | 6.693 | 170 | 0.571 | 14.5 | 4.900 | 2.222 | 3.150 | 80 | 6.693 | 170 |
| GS 894 16 | 3.150 | 80 | 6.693 | 170 | 0.709 | 18 | 5.513 | 2.500 | 3.268 | 83 | 6.693 | 170 |
| WS 894 16 | 3.150 | 80 | 6.693 | 170 | 0.709 | 18 | 5.513 | 2.500 | 3.150 | 80 | 6.693 | 170 |
| FC69629 | 3.150 | 80.010 | 4.249 | 107.927 | 0.096 | 2.440 | 0.17 | 0.077 | 3.150 | 80.010 | 4.249 | 107.927 |
| TWA5266 | 3.250 | 82.550 | 4.125 | 104.775 | 0.032 | 0.810 | 0.043 | 0.019 | 3.250 | 82.550 | 4.125 | 104.775 |
| TWB5266 | 3.250 | 82.550 | 4.125 | 104.775 | 0.063 | 1.600 | 0.090 | 0.041 | 3.250 | 82.550 | 4.125 | 104.775 |
| TWC5266 | 3.250 | 82.550 | 4.125 | 104.775 | 0.092 | 2.337 | 0.132 | 0.060 | 3.250 | 82.550 | 4.125 | 104.775 |
| TWD5266 | 3.250 | 82.550 | 4.125 | 104.775 | 0.126 | 3.200 | 0.181 | 0.082 | 3.250 | 82.550 | 4.125 | 104.775 |
| AS 85110 | 3.347 | 85 | 4.331 | 110 | 0.039 | 1 | 0.064 | 0.029 | 3.347 | 85 | 4.331 | 110 |
| GS 81117 | 3.347 | 85 | 4.331 | 110 | 0.226 | 5.750 | 0.351 | 0.159 | 3.425 | 87 | 4.331 | 110 |
| LS 85110 | 3.347 | 85 | 4.331 | 110 | 0.226 | 5.750 | 0.351 | 0.159 | 3.347 | 85 | 4.331 | 110 |
| WS 81117 | 3.347 | 85 | 4.331 | 110 | 0.226 | 5.750 | 0.351 | 0.159 | 3.347 | 85 | 4.331 | 110 |
| GS 812 17 | 3.347 | 85 | 4.921 | 125 | 1.221 | 31 | 1.080 | 0.490 | 3.465 | 88 | 4.921 | 125 |
| WS 812 17 | 3.347 | 85 | 4.921 | 125 | 1.221 | 31 | 1.080 | 0.490 | 3.347 | 85 | 4.921 | 125 |
| GS 893 17 | 3.347 | 85 | 5.906 | 150 | 0.532 | 13.5 | 2.712 | 1.230 | 3.465 | 88 | 5.906 | 150 |
| WS 893 17 | 3.347 | 85 | 5.906 | 150 | 0.532 | 13.5 | 2.712 | 1.230 | 3.347 | 85 | 5.906 | 150 |
| GS 874 17 | 3.347 | 85 | 7.087 | 180 | 0.571 | 14.5 | 4.961 | 2.250 | 3.465 | 88 | 7.087 | 180 |
| WS 874 17 | 3.347 | 85 | 7.087 | 180 | 0.571 | 14.5 | 4.961 | 2.250 | 3.347 | 85 | 7.087 | 180 |
| GS 894 17 | 3.347 | 85 | 7.087 | 180 | 0.768 | 19.5 | 6.549 | 2.970 | 3.465 | 88 | 7.087 | 180 |
| WS 894 17 | 3.347 | 85 | 7.087 | 180 | 0.768 | 19.5 | 6.549 | 2.970 | 3.347 | 85 | 7.087 | 180 |
| AS 90120 | 3.543 | 90 | 4.724 | 120 | 0.039 | 1 | 0.086 | 0.039 | 3.543 | 90 | 4.724 | 120 |
| GS 81118 | 3.543 | 90 | 4.724 | 120 | 0.256 | 6.5 | 0.516 | 0.234 | 3.622 | 92 | 4.724 | 120 |
| LS 90120 | 3.543 | 90 | 4.724 | 120 | 0.256 | 6.5 | 0.516 | 0.234 | 3.543 | 90 | 4.724 | 120 |
| WS 81118 | 3.543 | 90 | 4.724 | 120 | 0.256 | 6.5 | 0.516 | 0.234 | 3.543 | 90 | 4.724 | 120 |
| GS 812 18 | 3.543 | 90 | 5.315 | 135 | 1.378 | 35 | 1.354 | 0.614 | 3.661 | 93 | 5.315 | 135 |
| WS 812 18 | 3.543 | 90 | 5.315 | 135 | 1.378 | 35 | 1.354 | 0.614 | 3.543 | 90 | 5.315 | 135 |
| GS 893 18 | 3.543 | 90 | 6.102 | 155 | 0.532 | 13.5 | 2.933 | 1.330 | 3.661 | 93 | 6.102 | 155 |
| WS 893 18 | 3.543 | 90 | 6.102 | 155 | 0.532 | 13.5 | 2.933 | 1.330 | 3.543 | 90 | 6.102 | 155 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact

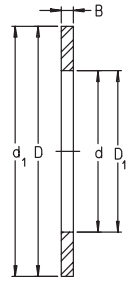



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d | SHAFT d | HOUSING D | HOUSING D | THICKNESS B | THICKNESS B | WEIGHT | WEIGHT | BORE $D_1$ | BORE $D_1$ | OD $d_1$ | OD $d_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | inch | mm | inch | mm | inch | mm | pounds | kilograms | inch | mm | inch | mm |
| GS 874 18 | 3.543 | 90 | 7.480 | 190 | 0.630 | 16 | 6.086 | 2.760 | 3.661 | 93 | 7.480 | 190 |
| WS 874 18 | 3.543 | 90 | 7.480 | 190 | 0.630 | 16 | 6.086 | 2.760 | 3.543 | 90 | 7.480 | 190 |
| GS 894 18 | 3.543 | 90 | 7.480 | 190 | 0.787 | 20 | 7.607 | 3.450 | 3.661 | 93 | 7.480 | 190 |
| WS 894 18 | 3.543 | 90 | 7.480 | 190 | 0.787 | 20 | 7.607 | 3.450 | 3.543 | 90 | 7.480 | 190 |
| TWA6074 | 3.750 | 95.250 | 4.625 | 117.475 | 0.032 | 0.810 | 0.048 | 0.022 | 3.750 | 95.250 | 4.625 | 117.475 |
| TWB6074 | 3.750 | 95.250 | 4.625 | 117.475 | 0.063 | 1.600 | 0.103 | 0.047 | 3.750 | 95.250 | 4.625 | 117.475 |
| TWC6074 | 3.750 | 95.250 | 4.625 | 117.475 | 0.092 | 2.337 | 0.150 | 0.068 | 3.750 | 95.250 | 4.625 | 117.475 |
| TWD6074 | 3.750 | 95.250 | 4.625 | 117.475 | 0.126 | 3.200 | 0.205 | 0.093 | 3.750 | 95.250 | 4.625 | 117.475 |
| FC67298 | 3.898 | 99 | 5.984 | 152 | 0.062 | 1.570 | 0.283 | 0.128 | 3.898 | 99 | 5.984 | 152 |
| AS 100135 | 3.937 | 100 | 5.315 | 135 | 0.039 | 1 | 0.110 | 0.050 | 3.937 | 100 | 5.315 | 135 |
| GS 81120 | 3.937 | 100 | 5.315 | 135 | 0.276 | 7 | 0.772 | 0.350 | 4.016 | 102 | 5.315 | 135 |
| LS 100135 | 3.937 | 100 | 5.315 | 135 | 0.276 | 7 | 0.772 | 0.350 | 3.937 | 100 | 5.315 | 135 |
| WS 81120 | 3.937 | 100 | 5.315 | 135 | 0.276 | 7 | 0.772 | 0.350 | 3.937 | 100 | 5.315 | 135 |
| GS 812 20 | 3.937 | 100 | 5.906 | 150 | 1.496 | 38 | 1.764 | 0.800 | 4.055 | 103 | 5.906 | 150 |
| WS 812 20 | 3.937 | 100 | 5.906 | 150 | 1.496 | 38 | 1.764 | 0.800 | 3.937 | 100 | 5.906 | 150 |
| GS 893 20 | 3.937 | 100 | 6.693 | 170 | 0.571 | 14.5 | 3.726 | 1.690 | 4.055 | 103 | 6.693 | 170 |
| WS 893 20 | 3.937 | 100 | 6.693 | 170 | 0.571 | 14.5 | 3.726 | 1.690 | 3.937 | 100 | 6.693 | 170 |
| GS 874 20 | 3.937 | 100 | 8.268 | 210 | 0.689 | 17.5 | 8.114 | 3.680 | 4.055 | 103 | 8.268 | 210 |
| WS 874 20 | 3.937 | 100 | 8.268 | 210 | 0.689 | 17.5 | 8.114 | 3.680 | 3.937 | 100 | 8.268 | 210 |
| GS 894 20 | 3.937 | 100 | 8.268 | 210 | 0.886 | 22.5 | 10.474 | 4.750 | 4.055 | 103 | 8.268 | 210 |
| WS 894 20 | 3.937 | 100 | 8.268 | 210 | 0.886 | 22.5 | 10.474 | 4.750 | 3.937 | 100 | 8.268 | 210 |
| TWA6681 | 4.125 | 104.775 | 5.063 | 128.588 | 0.032 | 0.810 | 0.056 | 0.025 | 4.125 | 104.775 | 5.063 | 128.588 |
| TWB6681 | 4.125 | 104.775 | 5.063 | 128.588 | 0.063 | 1.600 | 0.121 | 0.055 | 4.125 | 104.775 | 5.063 | 128.588 |
| TWC6681 | 4.125 | 104.775 | 5.063 | 128.588 | 0.092 | 2.337 | 0.176 | 0.080 | 4.125 | 104.775 | 5.063 | 128.588 |
| TWD6681 | 4.125 | 104.775 | 5.063 | 128.588 | 0.126 | 3.200 | 0.241 | 0.109 | 4.125 | 104.775 | 5.063 | 128.588 |
| AS 110145 | 4.331 | 110 | 5.709 | 145 | 0.039 | 1 | 0.121 | 0.055 | 4.331 | 110 | 5.709 | 145 |
| GS 81122 | 4.331 | 110 | 5.709 | 145 | 0.276 | 7 | 0.849 | 0.385 | 4.409 | 112 | 5.709 | 145 |
| LS 110145 | 4.331 | 110 | 5.709 | 145 | 0.276 | 7 | 0.849 | 0.385 | 4.331 | 110 | 5.709 | 145 |
| WS 81122 | 4.331 | 110 | 5.709 | 145 | 0.276 | 7 | 0.849 | 0.385 | 4.331 | 110 | 5.709 | 145 |
| GS 812 22 | 4.331 | 110 | 6.299 | 160 | 1.496 | 38 | 1.940 | 0.880 | 4.449 | 113 | 6.299 | 160 |
| WS 812 22 | 4.331 | 110 | 6.299 | 160 | 1.496 | 38 | 1.940 | 0.880 | 4.331 | 110 | 6.299 | 160 |
| GS 893 22 | 4.331 | 110 | 7.480 | 190 | 0.650 | 16.5 | 5.380 | 2.440 | 4.449 | 113 | 7.480 | 190 |
| WS 893 22 | 4.331 | 110 | 7.480 | 190 | 0.650 | 16.5 | 5.380 | 2.440 | 4.331 | 110 | 7.480 | 190 |
| GS 874 22 | 4.331 | 110 | 9.055 | 230 | 0.728 | 18.5 | 10.275 | 4.660 | 4.449 | 113 | 9.055 | 230 |
| WS 874 22 | 4.331 | 110 | 9.055 | 230 | 0.728 | 18.5 | 10.275 | 4.660 | 4.331 | 110 | 9.055 | 230 |
| GS 894 22 | 4.331 | 110 | 9.055 | 230 | 0.965 | 24.5 | 13.561 | 6.150 | 4.449 | 113 | 9.055 | 230 |
| WS 894 22 | 4.331 | 110 | 9.055 | 230 | 0.965 | 24.5 | 13.561 | 6.150 | 4.331 | 110 | 9.055 | 230 |
| AS 120155 | 4.724 | 120 | 6.102 | 155 | 0.039 | 1 | 0.130 | 0.059 | 4.724 | 120 | 6.102 | 155 |
| GS 81124 | 4.724 | 120 | 6.102 | 155 | 0.276 | 7 | 0.915 | 0.415 | 4.803 | 122 | 6.102 | 155 |
| LS 120155 | 4.724 | 120 | 6.102 | 155 | 0.276 | 7 | 0.915 | 0.415 | 4.724 | 120 | 6.102 | 155 |
| WS 81124 | 4.724 | 120 | 6.102 | 155 | 0.276 | 7 | 0.915 | 0.415 | 4.724 | 120 | 6.102 | 155 |
| GS 812 24 | 4.724 | 120 | 6.693 | 170 | 1.535 | 39 | 2.161 | 0.980 | 4.843 | 123 | 6.693 | 170 |
| WS 812 24 | 4.724 | 120 | 6.693 | 170 | 1.535 | 39 | 2.161 | 0.980 | 4.724 | 120 | 6.693 | 170 |
| GS 893 24 | 4.724 | 120 | 8.268 | 210 | 0.728 | 18.5 | 7.497 | 3.400 | 4.843 | 123 | 8.268 | 210 |
| WS 893 24 | 4.724 | 120 | 8.268 | 210 | 0.728 | 18.5 | 7.497 | 3.400 | 4.724 | 120 | 8.268 | 210 |
| GS 874 24 | 4.724 | 120 | 9.843 | 250 | 0.787 | 20 | 13.098 | 5.940 | 4.843 | 123 | 9.843 | 250 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact

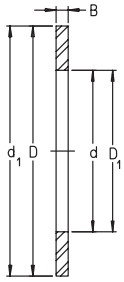



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| PART NUMBER | SHAFT d inch | SHAFT d mm | HOUSING D inch | HOUSING D mm | THICKNESS B inch | THICKNESS B mm | WEIGHT pounds | WEIGHT kilograms | BORE $D_1$ inch | BORE $D_1$ mm | OD $d_1$ inch | OD $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WS 874 24 | 4.724 | 120 | 9.843 | 250 | 0.787 | 20 | 13.098 | 5.940 | 4.724 | 120 | 9.843 | 250 |
| GS 894 24 | 4.724 | 120 | 9.843 | 250 | 1.024 | 26 | 16.979 | 7.700 | 4.843 | 123 | 9.843 | 250 |
| WS 894 24 | 4.724 | 120 | 9.843 | 250 | 1.024 | 26 | 16.979 | 7.700 | 4.724 | 120 | 9.843 | 250 |
| AS 130170 | 5.118 | 130 | 6.693 | 170 | 0.039 | 1 | 0.143 | 0.065 | 5.118 | 130 | 6.693 | 170 |
| GS 81126 | 5.118 | 130 | 6.693 | 170 | 0.354 | 9 | 1.462 | 0.663 | 5.197 | 132 | 6.693 | 170 |
| LS 130170 | 5.118 | 130 | 6.693 | 170 | 0.354 | 9 | 1.462 | 0.663 | 5.118 | 130 | 6.693 | 170 |
| WS 81126 | 5.118 | 130 | 6.693 | 170 | 0.354 | 9 | 1.462 | 0.663 | 5.118 | 130 | 6.693 | 170 |
| GS 812 26 | 5.118 | 130 | 7.480 | 190 | 1.772 | 45 | 3.374 | 1.530 | 5.236 | 133 | 7.480 | 190 |
| WS 812 26 | 5.118 | 130 | 7.480 | 190 | 1.772 | 45 | 3.374 | 1.530 | 5.118 | 130 | 7.362 | 187 |
| GS 893 26 | 5.118 | 130 | 8.858 | 225 | 0.787 | 20 | 8.919 | 4.045 | 5.276 | 134 | 8.858 | 225 |
| WS 893 26 | 5.118 | 130 | 8.858 | 225 | 0.787 | 20 | 8.919 | 4.045 | 5.118 | 130 | 8.858 | 225 |
| GS 874 26 | 5.118 | 130 | 10.630 | 270 | 0.866 | 22 | 16.758 | 7.600 | 5.276 | 134 | 10.630 | 270 |
| WS 874 26 | 5.118 | 130 | 10.630 | 270 | 0.866 | 22 | 16.758 | 7.600 | 5.118 | 130 | 10.630 | 270 |
| GS 894 26 | 5.118 | 130 | 10.630 | 270 | 1.122 | 28.5 | 20.948 | 9.500 | 5.276 | 134 | 10.630 | 270 |
| WS 894 26 | 5.118 | 130 | 10.630 | 270 | 1.122 | 28.5 | 20.948 | 9.500 | 5.118 | 130 | 10.630 | 270 |
| 55W07 | 5.502 | 139.751 | 6.570 | 166.878 | 0.126 | 3.200 | 0.353 | 0.160 | 5.502 | 139.751 | 6.570 | 166.878 |
| AS 140180 | 5.512 | 140 | 7.087 | 180 | 0.039 | 1 | 0.174 | 0.079 | 5.512 | 140 | 7.087 | 180 |
| GS 81128 | 5.512 | 140 | 7.087 | 180 | 0.374 | 9.5 | 1.652 | 0.749 | 5.591 | 142 | 7.087 | 180 |
| LS 140180 | 5.512 | 140 | 7.087 | 180 | 0.374 | 9.5 | 1.652 | 0.749 | 5.512 | 140 | 7.087 | 180 |
| WS 81128 | 5.512 | 140 | 7.087 | 180 | 0.374 | 9.5 | 1.652 | 0.749 | 5.512 | 140 | 7.008 | 178 |
| GS 812 28 | 5.512 | 140 | 7.874 | 200 | 1.811 | 46 | 3.605 | 1.635 | 5.630 | 143 | 7.874 | 200 |
| WS 812 28 | 5.512 | 140 | 7.874 | 200 | 1.811 | 46 | 3.605 | 1.635 | 5.512 | 140 | 7.756 | 197 |
| GS 893 28 | 5.512 | 140 | 9.449 | 240 | 0.807 | 20.5 | 10.584 | 4.800 | 5.669 | 144 | 9.449 | 240 |
| WS 893 28 | 5.512 | 140 | 9.449 | 240 | 0.807 | 20.5 | 10.584 | 4.800 | 5.512 | 140 | 9.449 | 240 |
| GS 874 28 | 5.512 | 140 | 11.024 | 280 | 0.866 | 22 | 17.596 | 7.980 | 5.669 | 144 | 11.024 | 280 |
| WS 874 28 | 5.512 | 140 | 11.024 | 280 | 0.866 | 22 | 17.596 | 7.980 | 5.512 | 140 | 11.024 | 280 |
| GS 894 28 | 5.512 | 140 | 11.024 | 280 | 1.122 | 28.5 | 23.373 | 10.600 | 5.669 | 144 | 11.024 | 280 |
| WS 894 28 | 5.512 | 140 | 11.024 | 280 | 1.122 | 28.5 | 23.373 | 10.600 | 5.512 | 140 | 11.024 | 280 |
| AS 150190 | 5.906 | 150 | 7.480 | 190 | 0.039 | 1 | 0.185 | 0.084 | 5.906 | 150 | 7.480 | 190 |
| GS 81130 | 5.906 | 150 | 7.480 | 190 | 0.374 | 9.5 | 1.755 | 0.796 | 5.984 | 152 | 7.480 | 190 |
| LS 150190 | 5.906 | 150 | 7.480 | 190 | 0.374 | 9.5 | 1.755 | 0.796 | 5.906 | 150 | 7.480 | 190 |
| WS 81130 | 5.906 | 150 | 7.480 | 190 | 0.374 | 9.5 | 1.755 | 0.796 | 5.906 | 150 | 7.402 | 188 |
| GS 812 30 | 5.906 | 150 | 8.465 | 215 | 1.969 | 50 | 4.807 | 2.180 | 6.024 | 153 | 8.465 | 215 |
| WS 812 30 | 5.906 | 150 | 8.465 | 215 | 1.969 | 50 | 4.807 | 2.180 | 5.906 | 150 | 8.347 | 212 |
| GS 893 30 | 5.906 | 150 | 9.843 | 250 | 0.807 | 20.5 | 11.157 | 5.060 | 6.063 | 154 | 9.843 | 250 |
| WS 893 30 | 5.906 | 150 | 9.843 | 250 | 0.807 | 20.5 | 11.157 | 5.060 | 5.906 | 150 | 9.843 | 250 |
| GS 874 30 | 5.906 | 150 | 11.811 | 300 | 0.906 | 23 | 21.124 | 9.580 | 6.063 | 154 | 11.811 | 300 |
| WS 874 30 | 5.906 | 150 | 11.811 | 300 | 0.906 | 23 | 21.124 | 9.580 | 5.906 | 150 | 11.811 | 300 |
| GS 894 30 | 5.906 | 150 | 11.811 | 300 | 1.181 | 30 | 27.563 | 12.500 | 6.063 | 154 | 11.811 | 300 |
| WS 894 30 | 5.906 | 150 | 11.811 | 300 | 1.181 | 30 | 27.563 | 12.500 | 5.906 | 150 | 11.811 | 300 |
| AS 160200 | 6.299 | 160 | 7.874 | 200 | 0.039 | 1 | 0.196 | 0.089 | 6.299 | 160 | 7.874 | 200 |
| GS 81132 | 6.299 | 160 | 7.874 | 200 | 0.374 | 9.5 | 1.857 | 0.842 | 6.378 | 162 | 7.874 | 200 |
| LS 160200 | 6.299 | 160 | 7.874 | 200 | 0.374 | 9.5 | 1.857 | 0.842 | 6.299 | 160 | 7.874 | 200 |
| WS 81132 | 6.299 | 160 | 7.874 | 200 | 0.374 | 9.5 | 1.857 | 0.842 | 6.299 | 160 | 7.795 | 198 |
| GS 812 32 | 6.299 | 160 | 8.858 | 225 | 2.008 | 51 | 5.072 | 2.300 | 6.417 | 163 | 8.858 | 225 |
| WS 812 32 | 6.299 | 160 | 8.858 | 225 | 2.008 | 51 | 5.072 | 2.300 | 6.299 | 160 | 8.740 | 222 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact

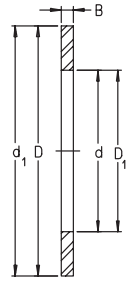



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d | SHAFT d | HOUSING D | HOUSING D | THICKNESS B | THICKNESS B | WEIGHT | WEIGHT | BORE $D_1$ | BORE $D_1$ | OD $d_1$ | OD $d_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | inch | mm | inch | mm | inch | mm | pounds | kilograms | inch | mm | inch | mm |
| GS 893 32 | 6.299 | 160 | 10.630 | 270 | 0.906 | 23 | 14.840 | 6.730 | 6.457 | 164 | 10.630 | 270 |
| WS 893 32 | 6.299 | 160 | 10.630 | 270 | 0.906 | 23 | 14.840 | 6.730 | 6.299 | 160 | 10.630 | 270 |
| GS 874 32 | 6.299 | 160 | 12.598 | 320 | 1.004 | 25.5 | 26.681 | 12.100 | 6.457 | 164 | 12.598 | 320 |
| WS 874 32 | 6.299 | 160 | 12.598 | 320 | 1.004 | 25.5 | 26.681 | 12.100 | 6.299 | 160 | 12.598 | 320 |
| GS 894 32 | 6.299 | 160 | 12.598 | 320 | 1.240 | 31.5 | 32.634 | 14.800 | 6.457 | 164 | 12.598 | 320 |
| WS 894 32 | 6.299 | 160 | 12.598 | 320 | 1.240 | 31.5 | 32.634 | 14.800 | 6.299 | 160 | 12.598 | 320 |
| GS 811 34 | 6.693 | 170 | 8.465 | 215 | 0.394 | 10 | 2.426 | 1.100 | 6.772 | 172 | 8.465 | 215 |
| WS 811 34 | 6.693 | 170 | 8.465 | 215 | 0.394 | 10 | 2.426 | 1.100 | 6.693 | 170 | 8.386 | 213 |
| GS 812 34 | 6.693 | 170 | 9.449 | 240 | 2.165 | 55 | 6.395 | 2.900 | 6.811 | 173 | 9.449 | 240 |
| WS 812 34 | 6.693 | 170 | 9.449 | 240 | 2.165 | 55 | 6.395 | 2.900 | 6.693 | 170 | 9.331 | 237 |
| GS 893 34 | 6.693 | 170 | 11.024 | 280 | 0.906 | 23 | 15.501 | 7.030 | 6.850 | 174 | 11.024 | 280 |
| WS 893 34 | 6.693 | 170 | 11.024 | 280 | 0.906 | 23 | 15.501 | 7.030 | 6.693 | 170 | 11.024 | 280 |
| GS 874 34 | 6.693 | 170 | 13.386 | 340 | 1.063 | 27 | 31.973 | 14.500 | 6.850 | 174 | 13.386 | 340 |
| WS 874 34 | 6.693 | 170 | 13.386 | 340 | 1.063 | 27 | 31.973 | 14.500 | 6.693 | 170 | 13.386 | 340 |
| GS 894 34 | 6.693 | 170 | 13.386 | 340 | 1.358 | 34.5 | 40.793 | 18.500 | 6.850 | 174 | 13.386 | 340 |
| WS 894 34 | 6.693 | 170 | 13.386 | 340 | 1.358 | 34.5 | 40.793 | 18.500 | 6.693 | 170 | 13.386 | 340 |
| GS 811 36 | 7.087 | 180 | 8.858 | 225 | 0.394 | 10 | 2.470 | 1.120 | 7.205 | 183 | 8.858 | 225 |
| WS 811 36 | 7.087 | 180 | 8.858 | 225 | 0.394 | 10 | 2.470 | 1.120 | 7.087 | 180 | 8.740 | 222 |
| GS 812 36 | 7.087 | 180 | 9.843 | 250 | 2.205 | 56 | 6.902 | 3.130 | 7.205 | 183 | 9.843 | 250 |
| WS 812 36 | 7.087 | 180 | 9.843 | 250 | 2.205 | 56 | 6.902 | 3.130 | 7.087 | 180 | 9.724 | 247 |
| GS 893 36 | 7.087 | 180 | 11.811 | 300 | 0.965 | 24.5 | 19.184 | 8.700 | 7.244 | 184 | 11.811 | 300 |
| WS 893 36 | 7.087 | 180 | 11.811 | 300 | 0.965 | 24.5 | 19.184 | 8.700 | 7.087 | 180 | 11.811 | 300 |
| GS 874 36 | 7.087 | 180 | 14.173 | 360 | 1.122 | 28.5 | 37.706 | 17.100 | 7.244 | 184 | 14.173 | 360 |
| WS 874 36 | 7.087 | 180 | 14.173 | 360 | 1.122 | 28.5 | 37.706 | 17.100 | 7.087 | 180 | 14.173 | 360 |
| GS 894 36 | 7.087 | 180 | 14.173 | 360 | 1.437 | 36.5 | 46.967 | 21.300 | 7.244 | 184 | 14.173 | 360 |
| WS 894 36 | 7.087 | 180 | 14.173 | 360 | 1.437 | 36.5 | 46.967 | 21.300 | 7.087 | 180 | 14.173 | 360 |
| GS 811 38 | 7.480 | 190 | 9.449 | 240 | 0.433 | 11 | 3.197 | 1.450 | 7.598 | 193 | 9.449 | 240 |
| WS 811 38 | 7.480 | 190 | 9.449 | 240 | 0.433 | 11 | 3.197 | 1.450 | 7.480 | 190 | 9.331 | 237 |
| GS 812 38 | 7.480 | 190 | 10.630 | 270 | 2.441 | 62 | 8.456 | 3.835 | 7.638 | 194 | 10.630 | 270 |
| WS 812 38 | 7.480 | 190 | 10.630 | 270 | 2.441 | 62 | 8.456 | 3.835 | 7.480 | 190 | 10.512 | 267 |
| GS 893 38 | 7.480 | 190 | 12.598 | 320 | 1.024 | 26 | 23.439 | 10.630 | 7.677 | 195 | 12.598 | 320 |
| WS 893 38 | 7.480 | 190 | 12.598 | 320 | 1.024 | 26 | 23.439 | 10.630 | 7.480 | 190 | 12.598 | 320 |
| GS 874 38 | 7.480 | 190 | 14.961 | 380 | 1.161 | 29.5 | 43.659 | 19.800 | 7.677 | 195 | 14.961 | 380 |
| WS 874 38 | 7.480 | 190 | 14.961 | 380 | 1.161 | 29.5 | 43.659 | 19.800 | 7.480 | 190 | 14.961 | 380 |
| GS 894 38 | 7.480 | 190 | 14.961 | 380 | 1.516 | 38.5 | 56.448 | 25.600 | 7.677 | 195 | 14.961 | 380 |
| WS 894 38 | 7.480 | 190 | 14.961 | 380 | 1.516 | 38.5 | 56.448 | 25.600 | 7.480 | 190 | 14.961 | 380 |
| GS 811 40 | 7.874 | 200 | 9.843 | 250 | 0.433 | 11 | 3.33 | 1.510 | 7.992 | 203 | 9.843 | 250 |
| WS 811 40 | 7.874 | 200 | 9.843 | 250 | 0.433 | 11 | 3.33 | 1.510 | 7.874 | 200 | 9.724 | 247 |
| GS 812 40 | 7.874 | 200 | 11.024 | 280 | 2.441 | 62 | 9.724 | 4.410 | 8.032 | 204 | 11.024 | 280 |
| WS 812 40 | 7.874 | 200 | 11.024 | 280 | 2.441 | 62 | 9.724 | 4.410 | 7.874 | 200 | 10.906 | 277 |
| GS 893 40 | 7.874 | 200 | 13.386 | 340 | 1.122 | 28.5 | 27.717 | 12.570 | 8.071 | 205 | 13.386 | 340 |
| WS 893 40 | 7.874 | 200 | 13.386 | 340 | 1.122 | 28.5 | 27.717 | 12.570 | 7.874 | 200 | 13.386 | 340 |
| GS 874 40 | 7.874 | 200 | 15.748 | 400 | 1.221 | 31 | 50.715 | 23.000 | 8.071 | 205 | 15.748 | 400 |
| WS 874 40 | 7.874 | 200 | 15.748 | 400 | 1.221 | 31 | 50.715 | 23.000 | 7.874 | 200 | 15.748 | 400 |
| GS 894 40 | 7.874 | 200 | 15.748 | 400 | 1.614 | 41 | 64.607 | 29.300 | 8.071 | 205 | 15.748 | 400 |
| WS 894 40 | 7.874 | 200 | 15.748 | 400 | 1.614 | 41 | 64.607 | 29.300 | 7.874 | 200 | 15.748 | 400 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact

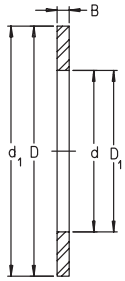



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | HOUSING D inch | HOUSING D mm | THICKNESS B inch | THICKNESS B mm | WEIGHT pounds | WEIGHT kilograms | BORE $D_1$ inch | BORE $D_1$ mm | OD $d_1$ inch | OD $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GS 811 44 | 8.661 | 220 | 10.630 | 270 | 0.433 | 11 | 3.506 | 1.590 | 8.780 | 223 | 10.630 | 270 |
| WS 811 44 | 8.661 | 220 | 10.630 | 270 | 0.433 | 11 | 3.506 | 1.590 | 8.661 | 220 | 10.512 | 267 |
| GS 812 44 | 8.661 | 220 | 11.811 | 300 | 2.480 | 63 | 10.474 | 4.750 | 8.819 | 224 | 11.811 | 300 |
| WS 812 44 | 8.661 | 220 | 11.811 | 300 | 2.480 | 63 | 10.474 | 4.750 | 8.661 | 220 | 11.693 | 297 |
| GS 894 44 | 8.661 | 220 | 16.535 | 420 | 1.614 | 41 | 71.001 | 32.200 | 8.858 | 225 | 16.535 | 420 |
| WS 894 44 | 8.661 | 220 | 16.535 | 420 | 1.614 | 41 | 71.001 | 32.200 | 8.661 | 220 | 16.535 | 420 |
| GS 811 48 | 9.449 | 240 | 11.811 | 300 | 0.532 | 13.5 | 5.667 | 2.570 | 9.567 | 243 | 11.811 | 300 |
| WS 811 48 | 9.449 | 240 | 11.811 | 300 | 0.532 | 13.5 | 5.667 | 2.570 | 9.449 | 240 | 11.693 | 297 |
| GS 812 48 | 9.449 | 240 | 13.386 | 340 | 3.071 | 78 | 17.971 | 8.150 | 9.606 | 244 | 13.386 | 340 |
| WS 812 48 | 9.449 | 240 | 13.386 | 340 | 3.071 | 78 | 17.971 | 8.150 | 9.449 | 240 | 13.189 | 335 |
| GS 894 48 | 9.449 | 240 | 17.323 | 440 | 1.614 | 41 | 75.632 | 34.300 | 9.646 | 245 | 17.323 | 440 |
| WS 894 48 | 9.449 | 240 | 17.323 | 440 | 1.614 | 41 | 75.632 | 34.300 | 9.449 | 240 | 17.323 | 440 |
| GS 811 52 | 10.236 | 260 | 12.598 | 320 | 0.532 | 13.5 | 6.097 | 2.765 | 10.354 | 263 | 12.598 | 320 |
| WS 811 52 | 10.236 | 260 | 12.598 | 320 | 0.532 | 13.5 | 6.097 | 2.765 | 10.236 | 260 | 12.480 | 317 |
| GS 812 52 | 10.236 | 260 | 14.173 | 360 | 3.110 | 79 | 19.625 | 8.900 | 10.394 | 264 | 14.173 | 360 |
| WS 812 52 | 10.236 | 260 | 14.173 | 360 | 3.110 | 79 | 19.625 | 8.900 | 10.236 | 260 | 13.976 | 355 |
| GS 894 52 | 10.236 | 260 | 18.898 | 480 | 1.732 | 44 | 97.571 | 44.250 | 10.433 | 265 | 18.898 | 480 |
| WS 894 52 | 10.236 | 260 | 18.898 | 480 | 1.732 | 44 | 97.571 | 44.250 | 10.236 | 260 | 18.898 | 480 |
| GS 811 56 | 11.024 | 280 | 13.780 | 350 | 0.610 | 15.5 | 8.048 | 3.650 | 11.142 | 283 | 13.780 | 350 |
| WS 811 56 | 11.024 | 280 | 13.780 | 350 | 0.610 | 15.5 | 8.048 | 3.650 | 11.024 | 280 | 13.661 | 347 |
| GS 812 56 | 11.024 | 280 | 14.961 | 380 | 3.150 | 80 | 21.499 | 9.750 | 11.181 | 284 | 14.961 | 380 |
| WS 812 56 | 11.024 | 280 | 14.961 | 380 | 3.150 | 80 | 21.499 | 9.750 | 11.024 | 280 | 14.764 | 375 |
| GS 894 56 | 11.024 | 280 | 20.472 | 520 | 1.909 | 48.5 | 122.598 | 55.600 | 11.221 | 285 | 20.472 | 520 |
| WS 894 56 | 11.024 | 280 | 20.472 | 520 | 1.909 | 48.5 | 122.598 | 55.600 | 11.024 | 280 | 20.472 | 520 |
| GS 811 60 | 11.811 | 300 | 14.961 | 380 | 0.728 | 18.5 | 13.054 | 5.920 | 11.969 | 304 | 14.961 | 380 |
| WS 811 60 | 11.811 | 300 | 14.961 | 380 | 0.728 | 18.5 | 13.054 | 5.920 | 11.811 | 300 | 14.803 | 376 |
| GS 812 60 | 11.811 | 300 | 16.535 | 420 | 3.740 | 95 | 33.516 | 15.200 | 11.969 | 304 | 16.535 | 420 |
| WS 812 60 | 11.811 | 300 | 16.535 | 420 | 3.740 | 95 | 33.516 | 15.200 | 11.811 | 300 | 16.339 | 415 |
| GS 894 60 | 11.811 | 300 | 21.260 | 540 | 1.909 | 48.5 | 176.731 | 80.150 | 12.008 | 305 | 21.260 | 540 |
| WS 894 60 | 11.811 | 300 | 21.260 | 540 | 1.909 | 48.5 | 176.731 | 80.150 | 11.811 | 300 | 21.260 | 540 |
| GS 811 64 | 12.598 | 320 | 15.748 | 400 | 0.748 | 19 | 14.002 | 6.350 | 12.756 | 324 | 15.748 | 400 |
| WS 811 64 | 12.598 | 320 | 15.748 | 400 | 0.748 | 19 | 14.002 | 6.350 | 12.598 | 320 | 15.591 | 396 |
| GS 812 64 | 12.598 | 320 | 17.323 | 440 | 3.740 | 95 | 35.170 | 15.950 | 12.795 | 325 | 17.323 | 440 |
| WS 812 64 | 12.598 | 320 | 17.323 | 440 | 3.740 | 95 | 35.170 | 15.950 | 12.598 | 320 | 17.126 | 435 |
| GS 811 68 | 13.386 | 340 | 16.535 | 420 | 0.768 | 19.5 | 15.369 | 6.970 | 13.543 | 344 | 16.535 | 420 |
| WS 811 68 | 13.386 | 340 | 16.535 | 420 | 0.768 | 19.5 | 15.369 | 6.970 | 13.386 | 340 | 16.378 | 416 |
| GS 812 68 | 13.386 | 340 | 18.110 | 460 | 3.780 | 96 | 39.139 | 17.750 | 13.583 | 345 | 18.110 | 460 |
| WS 812 68 | 13.386 | 340 | 18.110 | 460 | 3.780 | 96 | 39.139 | 17.750 | 13.386 | 340 | 17.913 | 455 |
| GS 811 72 | 14.173 | 360 | 17.323 | 440 | 0.787 | 20 | 15.380 | 6.975 | 14.331 | 364 | 17.323 | 440 |
| WS 811 72 | 14.173 | 360 | 17.323 | 440 | 0.787 | 20 | 15.380 | 6.975 | 14.173 | 360 | 17.165 | 436 |
| GS 812 72 | 14.173 | 360 | 19.685 | 500 | 4.331 | 110 | 53.361 | 24.200 | 14.370 | 365 | 19.685 | 500 |
| WS 812 72 | 14.173 | 360 | 19.685 | 500 | 4.331 | 110 | 53.361 | 24.200 | 14.173 | 360 | 19.488 | 495 |
| GS 811 76 | 14.961 | 380 | 18.110 | 460 | 0.787 | 20 | 17.442 | 7.910 | 15.118 | 384 | 18.110 | 460 |
| WS 811 76 | 14.961 | 380 | 18.110 | 460 | 0.787 | 20 | 17.442 | 7.910 | 14.961 | 380 | 17.953 | 456 |
| GS 812 76 | 14.961 | 380 | 20.472 | 520 | 4.409 | 112 | 57.771 | 26.200 | 15.158 | 385 | 20.472 | 520 |
| WS 812 76 | 14.961 | 380 | 20.472 | 520 | 4.409 | 112 | 57.771 | 26.200 | 14.961 | 380 | 20.276 | 515 |

# Thrust Washers
## FLAT RACE THRUST WASHERS
## SORTED BY SHAFT DIMENSION

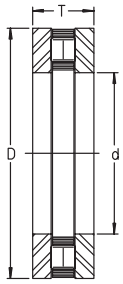
- Metric: AS, GS, LS, WS series
- Inch: TWA, TWB, TWC, TWD series
- Special Dimensions: F & FC
- Axial contact




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | HOUSING D inch | HOUSING D mm | THICKNESS B inch | THICKNESS B mm | WEIGHT pounds | WEIGHT kilograms | BORE $D_1$ inch | BORE $D_1$ mm | OD $d_1$ inch | OD $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GS 811 80 | 15.748 | 400 | 18.898 | 480 | 0.787 | 20 | 18.213 | 8.260 | 15.906 | 404 | 18.898 | 480 |
| WS 811 80 | 15.748 | 400 | 18.898 | 480 | 0.787 | 20 | 18.213 | 8.260 | 15.748 | 400 | 18.740 | 476 |
| GS 812 80 | 15.748 | 400 | 21.260 | 540 | 4.409 | 112 | 60.197 | 27.300 | 15.945 | 405 | 21.260 | 540 |
| WS 812 80 | 15.748 | 400 | 21.260 | 540 | 4.409 | 112 | 60.197 | 27.300 | 15.748 | 400 | 21.063 | 535 |
| GS 811 84 | 16.535 | 420 | 19.685 | 500 | 0.787 | 20 | 19.073 | 8.650 | 16.693 | 424 | 19.685 | 500 |
| WS 811 84 | 16.535 | 420 | 19.685 | 500 | 0.787 | 20 | 19.073 | 8.650 | 16.535 | 420 | 19.488 | 495 |
| GS 812 84 | 16.535 | 420 | 22.835 | 580 | 5.118 | 130 | 76.734 | 34.800 | 16.732 | 425 | 22.835 | 580 |
| WS 812 84 | 16.535 | 420 | 22.835 | 580 | 5.118 | 130 | 76.734 | 34.800 | 16.535 | 420 | 22.638 | 575 |
| GS 811 88 | 17.323 | 440 | 21.260 | 540 | 0.945 | 24 | 30.760 | 13.950 | 17.480 | 444 | 21.260 | 540 |
| WS 811 88 | 17.323 | 440 | 21.260 | 540 | 0.945 | 24 | 30.760 | 13.950 | 17.323 | 440 | 21.063 | 535 |
| GS 812 88 | 17.323 | 440 | 23.622 | 600 | 5.118 | 130 | 89.303 | 40.500 | 17.520 | 445 | 23.622 | 600 |
| WS 812 88 | 17.323 | 440 | 23.622 | 600 | 5.118 | 130 | 89.303 | 40.500 | 17.323 | 440 | 23.425 | 595 |
| GS 811 92 | 18.110 | 460 | 22.047 | 560 | 0.945 | 24 | 32.171 | 14.590 | 18.268 | 464 | 22.047 | 560 |
| WS 811 92 | 18.110 | 460 | 22.047 | 560 | 0.945 | 24 | 32.171 | 14.590 | 18.110 | 460 | 21.850 | 555 |
| GS 812 92 | 18.110 | 460 | 24.409 | 620 | 5.118 | 130 | 98.784 | 44.800 | 18.307 | 465 | 24.409 | 620 |
| WS 812 92 | 18.110 | 460 | 24.409 | 620 | 5.118 | 130 | 98.784 | 44.800 | 18.110 | 460 | 24.213 | 615 |
| GS 811 96 | 18.898 | 480 | 22.835 | 580 | 0.945 | 24 | 33.296 | 15.100 | 19.055 | 484 | 22.835 | 580 |
| WS 811 96 | 18.898 | 480 | 22.835 | 580 | 0.945 | 24 | 33.296 | 15.100 | 18.898 | 480 | 22.638 | 575 |
| GS 812 96 | 18.898 | 480 | 25.591 | 650 | 5.315 | 135 | 104.186 | 47.250 | 19.095 | 485 | 25.591 | 650 |
| WS 812 96 | 18.898 | 480 | 25.591 | 650 | 5.315 | 135 | 104.186 | 47.250 | 18.898 | 480 | 25.394 | 645 |
| GS811/500 | 19.685 | 500 | 23.622 | 600 | 0.945 | 24 | 34.354 | 15.580 | 19.882 | 505 | 23.622 | 600 |
| WS811/500 | 19.685 | 500 | 23.622 | 600 | 0.945 | 24 | 34.354 | 15.580 | 19.685 | 500 | 23.425 | 595 |
| GS812/500 | 19.685 | 500 | 26.378 | 670 | 5.315 | 135 | 108.045 | 49 | 19.882 | 505 | 26.378 | 670 |
| WS812/500 | 19.685 | 500 | 26.378 | 670 | 5.315 | 135 | 108.045 | 49 | 19.685 | 500 | 26.181 | 665 |
| GS811/530 | 20.866 | 530 | 25.197 | 640 | 1.004 | 25.5 | 43.549 | 19.750 | 21.063 | 535 | 25.197 | 640 |
| WS811/530 | 20.866 | 530 | 25.197 | 640 | 1.004 | 25.5 | 43.549 | 19.750 | 20.866 | 530 | 25.000 | 635 |
| GS812/530 | 20.866 | 530 | 27.953 | 710 | 5.512 | 140 | 122.929 | 55.750 | 21.063 | 535 | 27.953 | 710 |
| WS812/530 | 20.866 | 530 | 27.953 | 710 | 5.512 | 140 | 122.929 | 55.750 | 20.866 | 530 | 27.756 | 705 |
| ASS560X604X2,3A | 22.047 | 560 | 23.780 | 604 | 0.091 | 2.3 | 1.610 | 0.730 | 22.047 | 560 | 23.780 | 604 |
| GS811/560 | 22.047 | 560 | 26.378 | 670 | 1.004 | 25.5 | 45.313 | 20.550 | 22.244 | 565 | 26.378 | 670 |
| WS811/560 | 22.047 | 560 | 26.378 | 670 | 1.004 | 25.5 | 45.313 | 20.550 | 22.047 | 560 | 26.181 | 665 |
| GS812/560 | 22.047 | 560 | 29.528 | 750 | 5.906 | 150 | 154.791 | 70.200 | 22.244 | 565 | 29.528 | 750 |
| WS812/560 | 22.047 | 560 | 29.528 | 750 | 5.906 | 150 | 154.791 | 70.200 | 22.047 | 560 | 29.331 | 745 |
| GS811/600 | 23.622 | 600 | 27.953 | 710 | 1.004 | 25.5 | 48.290 | 21.900 | 23.819 | 605 | 27.953 | 710 |
| WS811/600 | 23.622 | 600 | 27.953 | 710 | 1.004 | 25.5 | 48.290 | 21.900 | 23.622 | 600 | 27.756 | 705 |
| GS812/600 | 23.622 | 600 | 31.496 | 800 | 6.299 | 160 | 202.199 | 91.700 | 23.819 | 605 | 31.496 | 800 |
| WS812/600 | 23.622 | 600 | 31.496 | 800 | 6.299 | 160 | 202.199 | 91.700 | 23.622 | 600 | 31.299 | 795 |

# Roller Thrust Bearings
## 811 SERIES



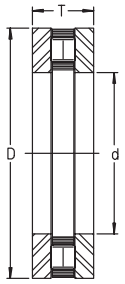

- Metric series
- Axial cylindrical roller bearings
- Cage assembly with washers
- High axial loads
- Speed limit shown is for oil lubrication

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. AXIAL lbf | DYN. CAP. AXIAL N | STAT. CAP. AXIAL lbf | STAT. CAP. AXIAL N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 811 02 TN | 0.591 | 15 | 1.102 | 28 | 0.354 | 9 | 0.053 | 0.024 | 3200 | 14400 | 6400 | 28500 | 13000 |
| 811 03 TN | 0.669 | 17 | 1.181 | 30 | 0.354 | 9 | 0.060 | 0.027 | 3600 | 15900 | 7500 | 33500 | 12000 |
| 811 04 TN | 0.787 | 20 | 1.378 | 35 | 0.394 | 10 | 0.082 | 0.037 | 5600 | 24900 | 11900 | 53000 | 10000 |
| 811 05 TN | 0.984 | 25 | 1.654 | 42 | 0.433 | 11 | 0.117 | 0.053 | 7500 | 33500 | 17100 | 76000 | 8500 |
| 811 06 TN | 1.181 | 30 | 1.850 | 47 | 0.433 | 11 | 0.126 | 0.057 | 8000 | 35500 | 19300 | 86000 | 7500 |
| 811 07 TN | 1.378 | 35 | 2.047 | 52 | 0.472 | 12 | 0.161 | 0.073 | 8800 | 39000 | 22700 | 101000 | 6500 |
| 811 08 TN | 1.575 | 40 | 2.362 | 60 | 0.512 | 13 | 0.232 | 0.105 | 12600 | 56000 | 33000 | 148000 | 6000 |
| 811 09 TN | 1.772 | 45 | 2.559 | 65 | 0.551 | 14 | 0.287 | 0.13 | 13300 | 59000 | 37000 | 163000 | 5000 |
| 811 10 TN | 1.969 | 50 | 2.756 | 70 | 0.551 | 14 | 0.309 | 0.14 | 13700 | 61000 | 40000 | 177000 | 4800 |
| 811 11 TN | 2.165 | 55 | 3.071 | 78 | 0.630 | 16 | 0.481 | 0.218 | 20200 | 90000 | 67000 | 300000 | 4300 |
| 811 12 TN | 2.362 | 60 | 3.346 | 85 | 0.669 | 17 | 0.587 | 0.266 | 23200 | 103000 | 71000 | 315000 | 4000 |
| 811 13 TN | 2.559 | 65 | 3.543 | 90 | 0.709 | 18 | 0.684 | 0.31 | 24100 | 107000 | 76000 | 340000 | 3700 |
| 811 14 TN | 2.756 | 70 | 3.740 | 95 | 0.709 | 18 | 0.732 | 0.332 | 25000 | 111000 | 82000 | 365000 | 3500 |
| 811 15 TN | 2.953 | 75 | 3.937 | 100 | 0.748 | 19 | 0.867 | 0.393 | 24100 | 107000 | 79000 | 350000 | 3300 |
| 811 16 TN | 3.150 | 80 | 4.134 | 105 | 0.748 | 19 | 0.882 | 0.4 | 23800 | 106000 | 79000 | 350000 | 3100 |
| 811 17 TN | 3.347 | 85 | 4.331 | 110 | 0.748 | 19 | 0.926 | 0.42 | 25200 | 112000 | 87000 | 385000 | 3000 |
| 811 18 TN | 3.543 | 90 | 4.724 | 120 | 0.866 | 22 | 1.367 | 0.62 | 32000 | 141000 | 105000 | 465000 | 2700 |
| 811 20 TN | 3.937 | 100 | 5.315 | 135 | 0.984 | 25 | 2.095 | 0.95 | 45000 | 199000 | 146000 | 650000 | 2500 |
| 811 22 TN | 4.331 | 110 | 5.709 | 145 | 0.984 | 25 | 2.293 | 1.04 | 47000 | 207000 | 157000 | 700000 | 2300 |
| 811 24 TN | 4.724 | 120 | 6.102 | 155 | 0.984 | 25 | 2.470 | 1.12 | 48000 | 214000 | 171000 | 790000 | 2100 |
| 811 26 TN | 5.118 | 130 | 6.693 | 170 | 1.181 | 30 | 3.682 | 1.67 | 56000 | 250000 | 202000 | 900000 | 1900 |
| 811 28 TN | 5.512 | 140 | 7.087 | 180 | 1.220 | 31 | 4.190 | 1.9 | 58000 | 260000 | 216000 | 960000 | 1800 |
| 811 30 TN | 5.906 | 150 | 7.480 | 190 | 1.220 | 31 | 4.454 | 2.02 | 61000 | 270000 | 229000 | 1020000 | 1700 |
| **811 32** | 6.299 | 160 | 7.874 | 200 | 1.220 | 31 | 4.827 | 2.189 | 61000 | 270000 | 236000 | 1050000 | 1600 |
| 811 34 | 6.693 | 170 | 8.465 | 215 | 1.339 | 34 | 6.505 | 2.95 | 81000 | 360000 | 310000 | 1380000 | 1500 |
| 811 36 | 7.087 | 180 | 8.858 | 225 | 1.339 | 34 | 6.703 | 3.04 | 76000 | 340000 | 292000 | 1300000 | 1400 |
| 811 38 | 7.480 | 190 | 9.449 | 240 | 1.457 | 37 | 8.467 | 3.84 | 87000 | 385000 | 337000 | 1500000 | 1300 |
| 811 40 | 7.874 | 200 | 9.843 | 250 | 1.457 | 37 | 8.820 | 4.00 | 88000 | 390000 | 348000 | 1550000 | 1300 |
| 811 44 | 8.661 | 220 | 10.630 | 270 | 1.457 | 37 | 9.923 | 4.50 | 94000 | 420000 | 389000 | 1730000 | 1200 |
| **811 48** | 9.449 | 240 | 11.811 | 300 | 1.772 | 45 | 15.986 | 7.25 | 135000 | 600000 | 562000 | 2500000 | 1100 |
| 811 52 | 10.236 | 260 | 12.598 | 320 | 1.772 | 45 | 17.265 | 7.83 | 139000 | 620000 | 596000 | 2650000 | 1000 |
| **811 56** | 11.024 | 280 | 13.780 | 350 | 2.087 | 53 | 22.712 | 10.30 | 193000 | 860000 | 821000 | 3650000 | 900 |
| 811 60 | 11.811 | 300 | 14.961 | 380 | 2.441 | 62 | 36.757 | 16.67 | 238000 | 1060000 | 1012000 | 4500000 | 850 |
| 811 64 | 12.598 | 320 | 15.748 | 400 | 2.480 | 63 | 39.293 | 17.82 | 247000 | 1100000 | 1068000 | 4750000 | 800 |
| **811 68** | 13.386 | 340 | 16.535 | 420 | 2.520 | 64 | 42.887 | 19.45 | 254000 | 1130000 | 1124000 | 5000000 | 750 |
| **811 72** | 14.173 | 360 | 17.323 | 440 | 2.559 | 65 | 42.998 | 19.50 | 256000 | 1140000 | 1147000 | 5100000 | 700 |
| **811 76** | 14.961 | 380 | 18.110 | 460 | 2.559 | 65 | 48.290 | 21.90 | 263000 | 1170000 | 1214000 | 5400000 | 700 |
| **811 80** | 15.748 | 400 | 18.898 | 480 | 2.559 | 65 | 50.583 | 22.94 | 270000 | 1200000 | 1281000 | 5700000 | 650 |
| **811 84** | 16.535 | 420 | 19.685 | 500 | 2.559 | 65 | 52.479 | 23.80 | 277000 | 1230000 | 1326000 | 5900000 | 650 |
| **811 88** | 17.323 | 440 | 21.260 | 540 | 3.150 | 80 | 86.921 | 39.42 | 400000 | 1780000 | 1844000 | 8200000 | 600 |
| **811 92** | 18.110 | 460 | 22.047 | 560 | 3.150 | 80 | 90.581 | 41.08 | 414000 | 1840000 | 1956000 | 8700000 | 550 |
| **811 96** | 18.898 | 480 | 22.835 | 580 | 3.150 | 80 | 94.264 | 42.75 | 418000 | 1860000 | 2001000 | 8900000 | 550 |
| **811/500** | 19.685 | 500 | 23.622 | 600 | 3.150 | 80 | 97.218 | 44.09 | 429000 | 1910000 | 2091000 | 9300000 | 500 |
| **811/530** | 20.866 | 530 | 25.197 | 640 | 3.346 | 85 | 122.333 | 55.48 | 481000 | 2140000 | 2361000 | 10500000 | 490 |
| **811/560** | 22.047 | 560 | 26.378 | 670 | 3.346 | 85 | 127.647 | 57.89 | 492000 | 2190000 | 2473000 | 11000000 | 470 |
| **811/600** | 23.622 | 600 | 27.953 | 710 | 3.346 | 85 | 136.159 | 61.75 | 501000 | 2230000 | 2585000 | 11500000 | 440 |

# Roller Thrust Bearings
## 812 SERIES



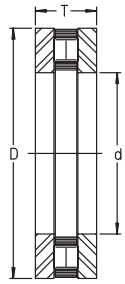

- Metric series
- Axial cylindrical roller bearings
- Cage assembly with washers
- High axial loads
- Speed limit shown is for oil lubrication

- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 812 06 TN | 1.181 | 30 | 2.047 | 52 | 0.630 | 16 | 0.271 | 0.123 | 14400 | 64 | 31700 | 141 | 7000 |
| 812 07 TN | 1.378 | 35 | 2.441 | 62 | 0.709 | 18 | 0.430 | 0.195 | 18000 | 80 | 44700 | 199 | 6000 |
| 812 08 TN | 1.575 | 40 | 2.677 | 68 | 0.748 | 19 | 0.549 | 0.249 | 24100 | 107 | 60000 | 265 | 5500 |
| 812 09 TN | 1.772 | 45 | 2.874 | 73 | 0.787 | 20 | 0.633 | 0.287 | 23600 | 105 | 60000 | 265 | 4900 |
| 812 10 TN | 1.969 | 50 | 3.071 | 78 | 0.866 | 22 | 0.785 | 0.356 | 26300 | 117 | 71000 | 315 | 4500 |
| 812 11 TN | 2.165 | 55 | 3.543 | 90 | 0.984 | 25 | 1.252 | 0.568 | 34600 | 154 | 91000 | 405 | 4000 |
| 812 12 TN | 2.362 | 60 | 3.740 | 95 | 1.024 | 26 | 1.416 | 0.642 | 38700 | 172 | 108000 | 480 | 3700 |
| 812 13 TN | 2.559 | 65 | 3.937 | 100 | 1.063 | 27 | 1.590 | 0.721 | 39800 | 177 | 112000 | 500 | 3500 |
| 812 14 TN | 2.756 | 70 | 4.134 | 105 | 1.063 | 27 | 1.693 | 0.768 | 42000 | 187 | 124000 | 550 | 3300 |
| 812 15 TN | 2.953 | 75 | 4.331 | 110 | 1.063 | 27 | 1.764 | 0.800 | 38700 | 172 | 112000 | 500 | 3100 |
| 812 16 TN | 3.150 | 80 | 4.528 | 115 | 1.102 | 28 | 1.985 | 0.900 | 45200 | 201 | 142000 | 630 | 3000 |
| 812 17 TN | 3.347 | 85 | 4.921 | 125 | 1.220 | 31 | 2.778 | 1.260 | 48800 | 217 | 148000 | 660 | 2700 |
| 812 18 TN | 3.543 | 90 | 5.315 | 135 | 1.378 | 35 | 3.903 | 1.770 | 65000 | 290 | 200000 | 890 | 2600 |
| 812 20 TN | 3.937 | 100 | 5.906 | 150 | 1.496 | 38 | 4.851 | 2.200 | 76000 | 340 | 243000 | 1080 | 2300 |
| **812 22 TN** | 4.331 | 110 | 6.299 | 160 | 1.496 | 38 | 5.049 | 2.290 | 73000 | 325 | 232000 | 1030 | 2100 |
| 812 24 TN | 4.724 | 120 | 6.693 | 170 | 1.535 | 39 | 5.601 | 2.540 | 76000 | 340 | 252000 | 1120 | 2000 |
| 812 26 | 5.118 | 130 | 7.480 | 190 | 1.772 | 45 | 9.270 | 4.204 | 108000 | 480 | 342000 | 1520 | 1800 |
| **812 28** | 5.512 | 140 | 7.874 | 200 | 1.811 | 46 | 10.070 | 4.567 | 100000 | 445 | 326000 | 1450 | 1700 |
| **812 30** | 5.906 | 150 | 8.465 | 215 | 1.969 | 50 | 12.979 | 5.886 | 133000 | 590 | 436000 | 1940 | 1600 |
| **812 32** | 6.299 | 160 | 8.858 | 225 | 2.008 | 51 | 13.678 | 6.203 | 135000 | 600 | 456000 | 2030 | 1500 |
| **812 34** | 6.693 | 170 | 9.449 | 240 | 2.165 | 55 | 16.956 | 7.690 | 153000 | 680 | 530000 | 2340 | 1400 |
| **812 36** | 7.087 | 180 | 9.843 | 250 | 2.205 | 56 | 18.169 | 8.240 | 155000 | 690 | 550000 | 2440 | 1300 |
| **812 38** | 7.480 | 190 | 10.630 | 270 | 2.441 | 62 | 22.932 | 10.400 | 198000 | 880 | 670000 | 3000 | 1300 |
| **812 40** | 7.874 | 200 | 11.024 | 280 | 2.441 | 62 | 26.262 | 11.910 | 202000 | 900 | 710000 | 3150 | 1200 |
| **812 44** | 8.661 | 220 | 11.811 | 300 | 2.480 | 63 | 28.334 | 12.850 | 211000 | 940 | 780000 | 3450 | 1100 |
| **812 48** | 9.449 | 240 | 13.386 | 340 | 3.071 | 78 | 48.400 | 21.950 | 308000 | 1370 | 1120000 | 5000 | 1000 |
| **812 52** | 10.236 | 260 | 14.173 | 360 | 3.110 | 79 | 52.700 | 23.900 | 324000 | 1440 | 1210000 | 5400 | 950 |
| **812 56** | 11.024 | 280 | 14.961 | 380 | 3.150 | 80 | 57.110 | 25.900 | 328000 | 1460 | 1260000 | 5600 | 850 |
| **812 60** | 11.811 | 300 | 16.535 | 420 | 3.740 | 95 | 89.413 | 40.550 | 434000 | 1930 | 1640000 | 7300 | 800 |
| **812 64** | 12.598 | 320 | 17.323 | 440 | 3.740 | 95 | 93.933 | 42.600 | 441000 | 1960 | 1710000 | 7600 | 750 |
| **812 68** | 13.386 | 340 | 18.110 | 460 | 3.780 | 96 | 103.084 | 46.750 | 463000 | 2060 | 1870000 | 8300 | 700 |
| **812 72** | 14.173 | 360 | 19.685 | 500 | 4.331 | 110 | 144.758 | 65.650 | 610000 | 2700 | 2380000 | 10600 | 650 |
| **812 76** | 14.961 | 380 | 20.472 | 520 | 4.409 | 112 | 154.571 | 70.100 | 620000 | 2750 | 2470000 | 11000 | 650 |
| **812 80** | 15.748 | 400 | 21.260 | 540 | 4.409 | 112 | 161.186 | 73.100 | 630000 | 2800 | 2560000 | 11400 | 600 |
| **812 84** | 16.535 | 420 | 22.835 | 580 | 5.118 | 130 | 210.798 | 95.600 | 790000 | 3500 | 3190000 | 14200 | 600 |
| **812 88** | 17.323 | 440 | 23.622 | 600 | 5.118 | 130 | 238.581 | 108.200 | 810000 | 3600 | 3330000 | 14800 | 550 |
| **812 92** | 18.110 | 460 | 24.409 | 620 | 5.118 | 130 | 259.749 | 117.800 | 820000 | 3650 | 3460000 | 15400 | 550 |
| **812 96** | 18.898 | 480 | 25.591 | 650 | 5.315 | 135 | 282.902 | 128.300 | 920000 | 4100 | 3820000 | 17000 | 500 |
| **812/500** | 19.685 | 500 | 26.378 | 670 | 5.315 | 135 | 293.265 | 133.000 | 930000 | 4150 | 3960000 | 17600 | 490 |
| **812/530** | 20.866 | 530 | 27.953 | 710 | 5.512 | 140 | 339.019 | 153.750 | 1070000 | 4750 | 4560000 | 20300 | 460 |
| **812/560** | 22.047 | 560 | 29.528 | 750 | 5.906 | 150 | 413.217 | 187.400 | 1090000 | 4850 | 4740000 | 21100 | 440 |
| **812/600** | 23.622 | 600 | 31.496 | 800 | 6.299 | 160 | 529.531 | 240.150 | 1240000 | 5500 | 5400000 | 24000 | 410 |

# Roller Thrust Bearings
## 893 SERIES




- Metric series
- Axial cylindrical roller bearings
- Cage assembly with washers
- Very high axial loads
- Speed limit shown is for oil lubrication

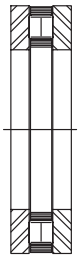
- Part numbers shown in bold may **not** be readily available, please call to check availability.

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 893 06 TN | 1.181 | 30 | 2.362 | 60 | 0.709 | 18 | 0.529 | 0.240 | 15500 | 69 | 44500 | 197 | 6500 |
| 893 07 TN | 1.378 | 35 | 2.677 | 68 | 0.787 | 20 | 0.750 | 0.340 | 18000 | 80 | 53000 | 237 | 5500 |
| 893 08 TN | 1.575 | 40 | 3.071 | 78 | 0.866 | 22 | 1.067 | 0.484 | 27500 | 122 | 87000 | 385 | 4900 |
| 893 09 TN | 1.772 | 45 | 3.346 | 85 | 0.945 | 24 | 1.356 | 0.615 | 31500 | 139 | 100000 | 445 | 4400 |
| 893 10 TN | 1.969 | 50 | 3.740 | 95 | 1.063 | 27 | 1.956 | 0.887 | 37500 | 167 | 126000 | 560 | 4000 |
| 893 11 TN | 2.165 | 55 | 4.134 | 105 | 1.181 | 30 | 2.602 | 1.180 | 41500 | 184 | 135000 | 600 | 3600 |
| 893 12 TN | 2.362 | 60 | 4.331 | 110 | 1.181 | 30 | 2.778 | 1.260 | 44000 | 196 | 151000 | 670 | 3400 |
| 893 13 TN | 2.559 | 65 | 4.528 | 115 | 1.181 | 30 | 2.933 | 1.330 | 43500 | 194 | 151000 | 670 | 3200 |
| 893 14 TN | 2.756 | 70 | 4.921 | 125 | 1.339 | 34 | 4.013 | 1.820 | 54000 | 239 | 187000 | 830 | 3000 |
| **893 15 TN** | 2.953 | 75 | 5.315 | 135 | 1.417 | 36 | 4.917 | 2.230 | 64000 | 285 | 227000 | 1010 | 2700 |
| 893 16 TN | 3.150 | 80 | 5.512 | 140 | 1.417 | 36 | 5.226 | 2.370 | 69000 | 305 | 250000 | 1110 | 2600 |
| 893 17 | 3.347 | 85 | 5.906 | 150 | 1.535 | 39 | 6.615 | 3.000 | 73000 | 325 | 255000 | 1140 | 2500 |
| 893 18 | 3.543 | 90 | 6.102 | 155 | 1.535 | 39 | 7.232 | 3.280 | 74000 | 330 | 270000 | 1200 | 2400 |
| 893 20 TN | 3.937 | 100 | 6.693 | 170 | 1.654 | 42 | 8.952 | 4.060 | 85000 | 380 | 315000 | 1400 | 2100 |
| **893 22 M** | 4.331 | 110 | 7.480 | 190 | 1.890 | 48 | 13.296 | 6.030 | 112000 | 500 | 420000 | 1870 | 1900 |
| **893 24** | 4.724 | 120 | 8.268 | 210 | 2.126 | 54 | 18.787 | 8.520 | 144000 | 640 | 545000 | 2420 | 1700 |
| **893 26** | 5.118 | 130 | 8.858 | 225 | 2.283 | 58 | 22.050 | 10.000 | 160000 | 710 | 605000 | 2700 | 1600 |
| **893 28** | 5.512 | 140 | 9.449 | 240 | 2.362 | 60 | 26.438 | 11.990 | 184000 | 820 | 720000 | 3200 | 1500 |
| **893 30** | 5.906 | 150 | 9.843 | 250 | 2.362 | 60 | 27.849 | 12.630 | 189000 | 840 | 755000 | 3350 | 1400 |
| **893 32** | 6.299 | 160 | 10.630 | 270 | 2.638 | 67 | 36.625 | 16.610 | 218000 | 970 | 875000 | 3900 | 1300 |
| **893 34** | 6.693 | 170 | 11.024 | 280 | 2.638 | 67 | 38.279 | 17.360 | 225000 | 1000 | 901000 | 4050 | 1300 |
| **893 36** | 7.087 | 180 | 11.811 | 300 | 2.874 | 73 | 48.753 | 22.110 | 285000 | 1260 | 1145000 | 5100 | 1200 |
| **893 38** | 7.480 | 190 | 12.598 | 320 | 3.071 | 78 | 59.248 | 26.870 | 320000 | 1420 | 1280000 | 5700 | 1100 |
| **893 40** | 7.874 | 200 | 13.386 | 340 | 3.346 | 85 | 70.406 | 31.930 | 365000 | 1630 | 1485000 | 6600 | 1100 |

# Metric Roller Thrust Bearing Assemblies & Components

- 811, 812 series, single row
- 874 series multi-row
- 893, 894 series, double row



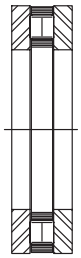
**811 SHOWN FOR REFERENCE**

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| ASSEMBLY PART NUMBER | CAGE PART NUMBER | HOUSING WASHER PART NUMBER | SHAFT WASHER PART NUMBER |
|---|---|---|---|
| 811 02 TN | K 811 02 TN | GS 811 02 | WS 811 02 |
| 811 03 TN | K 811 03 TN | GS 811 03 | WS 811 03 |
| 811 04 TN | K 811 04 TN | GS 811 04 | WS 811 04 |
| 811 05 TN | K 811 05 TN | GS 811 05 | WS 811 05 |
| 811 06 TN | K 811 06 TN | GS 811 06 | WS 811 06 |
| 811 07 TN | K 811 07 TN | GS 811 07 | WS 811 07 |
| 811 08 TN | K 811 08 TN | GS 811 08 | WS 811 08 |
| 811 09 TN | K 811 09 TN | GS 811 09 | WS 811 09 |
| 811 10 TN | K 811 10 TN | GS 811 10 | WS 811 10 |
| 811 11 TN | K 811 11 TN | GS 811 11 | WS 811 11 |
| 811 12 TN | K 811 12 TN | GS 811 12 | WS 811 12 |
| 811 13 TN | K 811 13 TN | GS 811 13 | WS 811 13 |
| 811 14 TN | K 811 14 TN | GS 811 14 | WS 811 14 |
| 811 15 TN | K 811 15 TN | GS 811 15 | WS 811 15 |
| 811 16 TN | K 811 16 TN | GS 811 16 | WS 811 16 |
| 811 17 TN | K 811 17 TN | GS 811 17 | WS 811 17 |
| 811 18 TN | K 811 18 TN | GS 811 18 | WS 811 18 |
| 811 20 TN | K 811 20 TN | GS 811 20 | WS 811 20 |
| 811 22 TN | K 811 22 TN | GS 811 22 | WS 811 22 |
| 811 24 TN | K 811 24 | GS 811 24 | WS 811 24 |
| 811 26 TN | K 811 26 | GS 811 26 | WS 811 26 |
| 811 28 TN | K 811 28 | GS 811 28 | WS 811 28 |
| 811 30 TN | K 811 30 | GS 811 30 | WS 811 30 |
| 811 32 | K 811 32 | GS 811 32 | WS 811 32 |
| 811 34 | K 811 34 | GS 811 34 | WS 811 34 |
| 811 36 | K 811 36 | GS 811 36 | WS 811 36 |
| 811 38 | K 811 38 | GS 811 38 | WS 811 38 |
| 811 40 | K 811 40 | GS 811 40 | WS 811 40 |
| 811 44 | K 811 44 | GS 811 44 | WS 811 44 |
| 811 48 | K 811 48 | GS 811 48 | WS 811 48 |
| 811 52 | K 811 52 | GS 811 52 | WS 811 52 |
| 811 56 | K 811 56 | GS 811 56 | WS 811 56 |
| 811 60 | K 811 60 | GS 811 60 | WS 811 60 |
| 811 64 | K 811 64 | GS 811 64 | WS 811 64 |
| 811 68 | K 811 68 | GS 811 68 | WS 811 68 |
| 811 72 | K 811 72 | GS 811 72 | WS 811 72 |
| 811 76 | K 811 76 | GS 811 76 | WS 811 76 |
| 811 80 | K 811 80 | GS 811 80 | WS 811 80 |
| 811 84 | K 811 84 | GS 811 84 | WS 811 84 |
| 811 88 | K 811 88 | GS 811 88 | WS 811 88 |
| 811 92 | K 811 92 | GS 811 92 | WS 811 92 |
| 811 96 | K 811 96 | GS 811 96 | WS 811 96 |
| 811/500 | K811/500 | GS811/500 | WS811/500 |
| 811/530 | K811/530 | GS811/530 | WS811/530 |
| 811/560 | K811/560 | GS811/560 | WS811/560 |
| 811/600 | K811/600 | GS811/600 | WS811/600 |
| 812 06 TN | K812 06 TN | GS 812 06 | WS 812 06 |

# Metric Roller Thrust Bearing Assemblies & Components

- 811, 812 series, single row
- 874 series multi-row
- 893, 894 series, double row



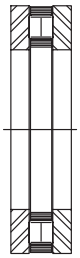
**811 SHOWN FOR REFERENCE**

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| ASSEMBLY PART NUMBER | CAGE PART NUMBER | HOUSING WASHER PART NUMBER | SHAFT WASHER PART NUMBER |
|---|---|---|---|
| 812 07 TN | K812 07 TN | GS 812 07 | WS 812 07 |
| 812 08 TN | K812 0K8 TN | GS 812 08 | WS 812 08 |
| 812 09 TN | K812 09 TN | GS 812 09 | WS 812 09 |
| 812 10 TN | K812 10 TN | GS 812 10 | WS 812 10 |
| 812 11 TN | K812 11 TN | GS 812 11 | WS 812 11 |
| 812 12 TN | K812 12 TN | GS 812 12 | WS 812 12 |
| 812 13 TN | K812 13 TN | GS 812 13 | WS 812 13 |
| 812 14 TN | K812 14 TN | GS 812 14 | WS 812 14 |
| 812 15 TN | K812 15 TN | GS 812 15 | WS 812 15 |
| 812 16 TN | K812 16 TN | GS 812 16 | WS 812 16 |
| 812 17 TN | K812 17 TN | GS 812 17 | WS 812 17 |
| 812 18 TN | K812 1K8 TN | GS 812 18 | WS 812 18 |
| 812 20 TN | K812 20 TN | GS 812 20 | WS 812 20 |
| 812 22 TN | K812 22 TN | GS 812 22 | WS 812 22 |
| 812 24 TN | K812 24 TN | GS 812 24 | WS 812 24 |
| 812 26 | K812 26 | GS 812 26 | WS 812 26 |
| 812 28 | K812 2K8 | GS 812 28 | WS 812 28 |
| 812 30 | K812 30 | GS 812 30 | WS 812 30 |
| 812 32 | K812 32 | GS 812 32 | WS 812 32 |
| 812 34 | K812 34 | GS 812 34 | WS 812 34 |
| 812 36 | K812 36 | GS 812 36 | WS 812 36 |
| 812 38 | K812 3K8 | GS 812 38 | WS 812 38 |
| 812 40 | K812 40 | GS 812 40 | WS 812 40 |
| 812 44 | K812 44 | GS 812 44 | WS 812 44 |
| 812 48 | K812 4K8 | GS 812 48 | WS 812 48 |
| 812 52 | K812 52 | GS 812 52 | WS 812 52 |
| 812 56 | K812 56 | GS 812 56 | WS 812 56 |
| 812 60 | K812 60 | GS 812 60 | WS 812 60 |
| 812 64 | K812 64 | GS 812 64 | WS 812 64 |
| 812 68 | K812 6K8 | GS 812 68 | WS 812 68 |
| 812 72 | K812 72 | GS 812 72 | WS 812 72 |
| 812 76 | K812 76 | GS 812 76 | WS 812 76 |
| 812 80 | K812 K80 | GS 812 80 | WS 812 80 |
| 812 84 | K812 K84 | GS 812 84 | WS 812 84 |
| 812 88 | K812 K8K8 | GS 812 88 | WS 812 88 |
| 812 92 | K812 92 | GS 812 92 | WS 812 92 |
| 812 96 | K812 96 | GS 812 96 | WS 812 96 |
| 812/500 | K812/500 | GS812/500 | WS812/500 |
| 812/530 | K812/530 | GS812/530 | WS812/530 |
| 812/560 | K812/560 | GS812/560 | WS812/560 |
| 812/600 | K812/600 | GS812/600 | WS812/600 |
| 893 06 TN | K 893 06 TN | GS 893 06 | WS 893 06 |
| 893 07 TN | K 893 07 TN | GS 893 07 | wS 893 07 |
| 893 08 TN | K 893 08 TN | GS 893 08 | WS 893 08 |
| 893 09 TN | K 893 09 TN | GS 893 09 | WS 893 09 |
| 893 10 TN | K 893 10 TN | GS 893 10 | WS 893 10 |
| 893 11 TN | K 893 11 TN | GS 893 11 | WS 893 11 |

# Metric Roller Thrust Bearing Assemblies & Components

- 811, 812 series, single row
- 874 series multi-row
- 893, 894 series, double row



**811 SHOWN FOR REFERENCE**

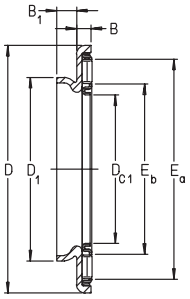
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| ASSEMBLY PART NUMBER | CAGE PART NUMBER | HOUSING WASHER PART NUMBER | SHAFT WASHER PART NUMBER |
|---|---|---|---|
| 893 12 TN | K 893 12 TN | GS 893 12 | WS 893 12 |
| 893 13 TN | K 893 13 TN | GS 893 13 | WS 893 13 |
| 893 14 TN | K 893 14 TN | GS 893 14 | WS 893 14 |
| 893 15 TN | K 893 15 TN | GS 893 15 | WS 893 15 |
| 893 16 TN | K 893 16 TN | GS 893 16 | WS 893 16 |
| 893 17 | K 893 17 | GS 893 17 | WS 893 17 |
| 893 18 | K 893 18 | GS 893 18 | WS 893 18 |
| 893 20 TN | K 893 20 | GS 893 20 | WS 893 20 |
| 893 22 | K 893 22 | GS 893 22 | WS 893 22 |
| 893 24 | K 893 24 | GS 893 24 | WS 893 24 |
| 893 26 | K 893 26 | GS 893 26 | WS 893 26 |
| 893 28 | K 893 28 | GS 893 28 | WS 893 28 |
| 893 30 | K 893 30 | GS 893 30 | WS 893 30 |
| 893 32 | K 893 32 | GS 893 32 | WS 893 32 |
| 893 34 | K 893 34 | GS 893 34 | WS 893 34 |
| 893 36 | K 893 36 | GS 893 36 | WS 893 36 |
| 893 38 | K 893 38 | GS 893 38 | WS 893 38 |
| 893 40 | K 893 40 | GS 893 40 | WS 893 40 |

# Piloted Thrust Bearings

## AXW SERIES

- Consisting of AXK axial needle roller cage and centering spigot on washer for piloting cage
- Speed limit shown is for oil lubrication



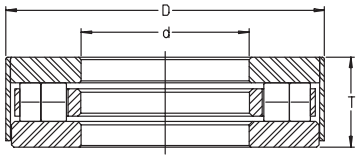

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $D_{c1}$ inch | SHAFT $D_{c1}$ mm | OD. D inch | OD D mm | WIDTH $B_1$ inch | WIDTH $B_1$ mm | WEIGHT lbs | WEIGHT g | DYN. CAP. C lbf | DYN. CAP. C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AXW 10 | 0.394 | 10 | 1.063 | 27 | 0.126 | 3.2 | .018 | 8.3 | 2,070 | 9.2 | 5,700 | 25.5 |
| AXW 12 | 0.472 | 12 | 1.142 | 29 | 0.126 | 3.2 | .020 | 9.1 | 2,230 | 9.9 | 6,500 | 29 |
| AXW 15 | 0.591 | 15 | 1.221 | 31 | 0.126 | 3.2 | .022 | 10 | 2,550 | 11.3 | 8,100 | 36 |
| AXW 17 | 0.669 | 17 | 1.299 | 33 | 0.126 | 3.2 | .024 | 11 | 2,700 | 11.9 | 8,900 | 39.5 |
| AXW 20 | 0.787 | 20 | 1.496 | 38 | 0.126 | 3.2 | .031 | 14 | 2,950 | 13.1 | 10,500 | 46.5 |
| AXW 25 | 0.984 | 25 | 1.772 | 45 | 0.126 | 3.2 | .044 | 20 | 3,300 | 14.7 | 13,000 | 58 |
| AXW 30 | 1.181 | 30 | 1.969 | 50 | 0.126 | 3.2 | .048 | 22 | 3,650 | 16.3 | 15,700 | 70 |
| AXW 35 | 1.378 | 35 | 2.165 | 55 | 0.126 | 3.2 | .060 | 27 | 4,000 | 17.8 | 18,200 | 81 |
| AXW 40 | 1.575 | 40 | 2.480 | 63 | 0.165 | 4.2 | .086 | 39 | 6,300 | 28 | 25,500 | 114 |
| AXW 45 | 1.772 | 45 | 2.677 | 68 | 0.165 | 4.2 | .095 | 43 | 6,700 | 30 | 29,000 | 128 |
| AXW 50 | 1.969 | 50 | 2.874 | 73 | 0.165 | 4.2 | .108 | 49 | 7,200 | 32 | 32,000 | 143 |

| PART NUMBER | CENTER WASHER OD $D_1$ inch | CENTER WASHER OD $D_1$ mm | CENTER WASHER WIDTH B inch | CENTER WASHER WIDTH B mm | SPEED LIMIT rpm | INTERNAL RACEWAY DIA. $E_b$ inch | INTERNAL RACEWAY DIA. $E_b$ mm | EXTERNAL RACEWAY DIA. $E_a$ inch | EXTERNAL RACEWAY DIA. $E_a$ mm |
|---|---|---|---|---|---|---|---|---|---|
| AXW 10 | 0.551 | 14 | 0.118 | 3 | 16000 | 0.472 | 12 | 0.906 | 23 |
| AXW 12 | 0.630 | 16 | 0.118 | 3 | 14000 | 0.551 | 14 | 0.984 | 25 |
| AXW 15 | 0.827 | 21 | 0.138 | 3.5 | 13000 | 0.669 | 17 | 1.063 | 27 |
| AXW 17 | 0.906 | 23 | 0.138 | 3.5 | 12000 | 0.748 | 19 | 1.142 | 29 |
| AXW 20 | 1.024 | 26 | 0.138 | 3.5 | 10000 | 0.866 | 22 | 1.339 | 34 |
| AXW 25 | 1.260 | 32 | 0.158 | 4 | 8000 | 1.142 | 29 | 1.614 | 41 |
| AXW 30 | 1.457 | 37 | 0.158 | 4 | 7000 | 1.339 | 34 | 1.811 | 46 |
| AXW 35 | 1.654 | 42 | 0.158 | 4 | 6500 | 1.535 | 39 | 2.008 | 51 |
| AXW 40 | 1.850 | 47 | 0.158 | 4 | 5500 | 1.772 | 45 | 2.284 | 58 |
| AXW 45 | 2.047 | 52 | 0.158 | 4 | 5000 | 1.969 | 50 | 2.480 | 63 |
| AXW 50 | 2.284 | 58 | 0.177 | 4.5 | 4700 | 2.165 | 55 | 2.677 | 68 |

# Cylindrical Roller Thrust Bearings
## RCT SERIES

- Crane hook type
- Single direction
- Flat race
- Speed limit shown is for oil lubrication



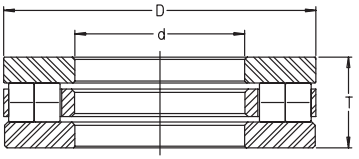

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCT11 | 1.625 | 41.275 | 3.093 | 78.562 | 0.812 | 20.625 | 1.001 | 0.454 | 20600 | 92 | 55000 | 243 | 3300 |
| RCT16 | 1.938 | 49.213 | 3.246 | 82.448 | 0.812 | 20.625 | 0.979 | 0.444 | 24200 | 107 | 62000 | 275 | 2900 |
| RCT17 | 2.000 | 50.800 | 3.952 | 100.380 | 1.000 | 25.400 | 2.073 | 0.940 | 37000 | 165 | 90000 | 400 | 2700 |
| RCT19 | 2.250 | 57.150 | 4.000 | 101.600 | 1.000 | 25.400 | 1.949 | 0.884 | 38500 | 172 | 97000 | 435 | 2500 |
| RCT20C | 2.250 | 57.150 | 4.250 | 107.950 | 1.000 | 25.400 | 2.320 | 1.052 | 38500 | 172 | 97000 | 430 | 2500 |
| RCT20B | 2.313 | 58.738 | 4.265 | 108.331 | 1.005 | 25.527 | 2.304 | 1.045 | 38500 | 172 | 97000 | 430 | 2500 |
| RCT23 | 2.750 | 69.850 | 4.750 | 120.650 | 1.000 | 25.400 | 2.675 | 1.213 | 41500 | 184 | 112000 | 500 | 2100 |
| RCT24A | 2.750 | 69.850 | 4.875 | 123.825 | 1.250 | 31.750 | 3.614 | 1.639 | 56000 | 248 | 142000 | 630 | 2000 |
| RCT23B | 2.813 | 71.438 | 4.750 | 120.650 | 1.000 | 25.400 | 2.613 | 1.185 | 41500 | 184 | 112000 | 500 | 2100 |
| RCT27A | 3.250 | 82.550 | 6.125 | 155.575 | 1.500 | 38.100 | 7.226 | 3.277 | 94000 | 420 | 260000 | 1170 | 1700 |
| RCT27C | 3.250 | 82.550 | 6.187 | 157.150 | 1.750 | 44.450 | 8.668 | 3.931 | 94000 | 420 | 260000 | 1170 | 1700 |
| RCT27B | 3.500 | 88.900 | 6.156 | 156.362 | 1.625 | 41.275 | 7.444 | 3.376 | 99000 | 440 | 280000 | 1250 | 1600 |
| RCT28A | 3.500 | 88.900 | 6.750 | 171.450 | 1.625 | 41.275 | 9.678 | 4.389 | 90000 | 400 | 285000 | 1280 | 1500 |
| RCT30B | 3.563 | 90.488 | 6.375 | 161.925 | 1.375 | 34.925 | 6.866 | 3.114 | 77000 | 340 | 234000 | 1040 | 1500 |
| RCT34A | 3.750 | 95.250 | 7.125 | 180.975 | 1.875 | 47.625 | 12.306 | 5.581 | 125000 | 560 | 390000 | 1740 | 1400 |
| RCT35A | 4.250 | 107.950 | 8.171 | 207.543 | 2.000 | 50.800 | 17.424 | 7.902 | 130000 | 580 | 435000 | 1940 | 1200 |
| RCT38A | 4.500 | 114.300 | 8.125 | 206.375 | 2.000 | 50.800 | 16.368 | 7.423 | 144000 | 640 | 510000 | 2260 | 1100 |
| RCT39A | 5.000 | 127.000 | 9.156 | 232.562 | 2.250 | 57.150 | 23.682 | 10.740 | 170000 | 750 | 630000 | 2800 | 1100 |
| RCT44A | 5.500 | 139.700 | 10.100 | 256.540 | 2.500 | 63.500 | 41.200 | 18.700 | 285000 | 1270 | 840000 | 3750 | 1000 |
| RCT45B | 5.563 | 141.288 | 11.500 | 292.100 | 2.000 | 50.800 | 36.283 | 16.455 | 265000 | 1180 | 1070000 | 4750 | 900 |
| RCT45A | 6.000 | 152.400 | 11.156 | 283.362 | 3.000 | 76.200 | 47.498 | 21.541 | 370000 | 1640 | 1070000 | 4750 | 900 |
| RCT49A | 6.813 | 173.038 | 12.750 | 323.850 | 2.500 | 63.500 | 51.994 | 23.580 | 380000 | 1680 | 1280000 | 5700 | 800 |
| RCT52 | 8.438 | 214.313 | 14.500 | 368.300 | 3.000 | 76.200 | 74.692 | 33.874 | 445000 | 1970 | 1650000 | 7300 | 700 |
| RCT54 | 9.313 | 236.538 | 16.500 | 419.100 | 3.000 | 76.200 | 99.681 | 45.207 | 395000 | 1750 | 1500000 | 6700 | 600 |

# Cylindrical Roller Thrust Bearings

## RT600 SERIES

- Medium cross section
- Single direction
- Flat race
- Available in self aligning RTW600 series
- Separable axial contact
- Speed limit shown is for oil lubrication
- Part numbers shown in bold may **not** be readily available, please call to check availability.

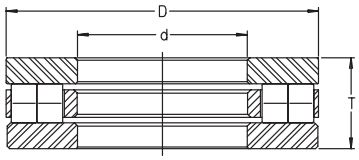



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RT601 | 1.000 | 25.400 | 2.126 | 53.988 | 0.813 | 20.638 | 0.512 | 0.232 | 13100 | 58 | 24000 | 107 | 5500 |
| **RT602** | 1.063 | 26.988 | 2.126 | 53.988 | 0.812 | 20.625 | 0.494 | 0.224 | 13100 | 58 | 24000 | 107 | 5500 |
| **RT603** | 1.125 | 28.575 | 2.250 | 57.150 | 0.813 | 20.638 | 0.553 | 0.251 | 14100 | 63 | 27000 | 120 | 5500 |
| RT604 | 1.188 | 30.163 | 2.250 | 57.150 | 0.813 | 20.637 | 0.531 | 0.241 | 14100 | 63 | 27000 | 120 | 5000 |
| RT605 | 1.250 | 31.750 | 2.375 | 60.325 | 0.813 | 20.637 | 0.595 | 0.270 | 16000 | 71 | 32000 | 143 | 5000 |
| RT606 | 1.313 | 33.338 | 2.375 | 60.325 | 0.813 | 20.637 | 0.571 | 0.259 | 16000 | 71 | 32000 | 143 | 5000 |
| RT607 | 1.375 | 34.925 | 2.875 | 73.025 | 0.813 | 20.637 | 0.928 | 0.421 | 21900 | 98 | 51000 | 226 | 4300 |
| **RT608** | 1.438 | 36.513 | 2.875 | 73.025 | 0.812 | 20.625 | 0.904 | 0.410 | 21900 | 98 | 51000 | 226 | 4300 |
| RT609 | 1.500 | 38.100 | 3.000 | 76.200 | 0.813 | 20.637 | 0.983 | 0.446 | 21300 | 95 | 49500 | 221 | 4100 |
| RT610 | 1.563 | 39.688 | 3.000 | 76.200 | 0.812 | 20.625 | 0.955 | 0.433 | 20800 | 93 | 49500 | 221 | 3700 |
| RT611 | 1.625 | 41.275 | 3.250 | 82.550 | 1.000 | 25.400 | 1.420 | 0.644 | 33500 | 148 | 75000 | 330 | 3700 |
| RT612 | 1.688 | 42.863 | 3.250 | 82.550 | 1.000 | 25.400 | 1.385 | 0.628 | 33500 | 149 | 75000 | 330 | 3700 |
| RT613 | 1.750 | 44.450 | 3.375 | 85.725 | 1.000 | 25.400 | 1.493 | 0.677 | 33000 | 147 | 75000 | 330 | 3500 |
| **RT614** | 1.813 | 46.038 | 3.375 | 85.725 | 1.000 | 25.400 | 1.453 | 0.659 | 33000 | 146 | 75000 | 330 | 3500 |
| **RT615** | 1.875 | 47.625 | 3.500 | 88.900 | 1.000 | 25.400 | 1.566 | 0.710 | 37500 | 166 | 90000 | 400 | 3400 |
| RT616 | 1.938 | 49.213 | 3.500 | 88.900 | 1.000 | 25.400 | 1.524 | 0.691 | 37500 | 166 | 90000 | 400 | 3100 |
| RT617 | 2.000 | 50.800 | 3.625 | 92.075 | 1.000 | 25.400 | 1.641 | 0.744 | 39000 | 173 | 95000 | 425 | 3200 |
| RT618 | 2.125 | 53.975 | 3.750 | 95.250 | 1.000 | 25.400 | 1.713 | 0.777 | 43500 | 193 | 111000 | 495 | 3100 |
| RT619 | 2.250 | 57.150 | 3.875 | 98.425 | 1.000 | 25.400 | 1.786 | 0.810 | 43500 | 193 | 111000 | 495 | 3100 |
| RT620 | 2.375 | 60.325 | 4.000 | 101.600 | 1.000 | 25.400 | 1.859 | 0.843 | 40500 | 179 | 103000 | 460 | 2900 |
| RT621 | 2.500 | 63.500 | 4.126 | 104.803 | 1.000 | 25.400 | 1.932 | 0.876 | 42500 | 189 | 111000 | 495 | 2800 |
| RT622 | 2.625 | 66.675 | 4.343 | 110.300 | 1.000 | 25.400 | 2.145 | 0.973 | 44000 | 196 | 119000 | 530 | 2600 |
| RT623 | 2.750 | 69.850 | 4.468 | 113.475 | 1.000 | 25.400 | 2.223 | 1.008 | 43500 | 194 | 119000 | 530 | 2500 |
| RT624 | 3.000 | 76.200 | 4.719 | 119.870 | 1.000 | 25.400 | 2.381 | 1.080 | 49000 | 219 | 143000 | 640 | 2400 |
| RT625 | 3.250 | 82.550 | 4.968 | 126.187 | 1.000 | 25.400 | 2.531 | 1.148 | 47000 | 209 | 135000 | 600 | 2300 |
| RT626 | 3.500 | 88.900 | 5.220 | 132.575 | 1.000 | 25.400 | 2.690 | 1.220 | 48000 | 214 | 143000 | 640 | 2100 |

# Cylindrical Roller Thrust Bearings
## RTL SERIES

- Light cross section
- Single direction
- Flat race
- Separable axial contact
- Dimensionally interchangeable with D, FT and GT series
- Speed limit shown is for oil lubrication
- Part numbers shown in bold may **not** be readily available, please call to check availability.



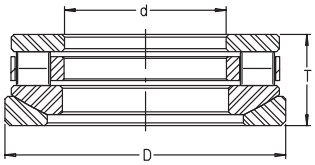

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTL7 | 0.875 | 22.225 | 1.844 | 46.838 | 0.625 | 15.875 | 0.295 | 0.134 | 7600 | 33.5 | 15000 | 67 | 5500 |
| **RTL8** | 0.938 | 23.813 | 1.844 | 46.838 | 0.625 | 15.875 | 0.282 | 0.128 | 7500 | 33.5 | 15000 | 67 | 5500 |
| RTL9 | 1.000 | 25.400 | 1.969 | 50.013 | 0.625 | 15.875 | 0.322 | 0.146 | 7400 | 33 | 15000 | 67 | 5500 |
| RTL10 | 1.063 | 26.988 | 1.969 | 50.013 | 0.625 | 15.875 | 0.306 | 0.139 | 7400 | 33 | 15000 | 67 | 5000 |
| RTL11 | 1.125 | 28.575 | 2.094 | 53.181 | 0.625 | 15.875 | 0.351 | 0.159 | 8200 | 36.5 | 17600 | 78 | 4600 |
| **RTL12** | 1.188 | 30.163 | 2.094 | 53.181 | 0.625 | 15.875 | 0.333 | 0.151 | 8400 | 37.5 | 18000 | 80 | 4600 |
| RTL13 | 1.250 | 31.750 | 2.344 | 59.531 | 0.625 | 15.875 | 0.441 | 0.200 | 9600 | 42.5 | 22000 | 98 | 4100 |
| RTL14 | 1.313 | 33.338 | 2.344 | 59.531 | 0.625 | 15.875 | 0.423 | 0.192 | 9600 | 42.5 | 22000 | 98 | 4300 |
| **RTL15** | 1.375 | 34.925 | 2.469 | 62.713 | 0.625 | 15.875 | 0.472 | 0.214 | 10000 | 44.5 | 23600 | 105 | 3900 |
| **RTL16** | 1.438 | 36.513 | 2.469 | 62.713 | 0.625 | 15.875 | 0.452 | 0.205 | 10100 | 45 | 24000 | 107 | 4000 |
| RTL17 | 1.500 | 38.100 | 2.594 | 65.881 | 0.625 | 15.875 | 0.503 | 0.228 | 10600 | 47 | 26000 | 116 | 3800 |
| **RTL18** | 1.563 | 39.688 | 2.594 | 65.881 | 0.625 | 15.875 | 0.481 | 0.218 | 10600 | 47 | 26000 | 116 | 3700 |
| **RTL19** | 1.625 | 41.275 | 2.969 | 75.413 | 0.813 | 20.650 | 0.900 | 0.408 | 10100 | 45 | 21900 | 97 | 3400 |
| **RTL20** | 1.688 | 42.863 | 2.969 | 75.413 | 0.813 | 20.650 | 0.871 | 0.395 | 17100 | 76 | 43000 | 192 | 3300 |
| RTL21 | 1.750 | 44.450 | 3.094 | 78.588 | 0.813 | 20.637 | 0.948 | 0.430 | 20500 | 91 | 55000 | 243 | 3200 |
| **RTL22** | 1.813 | 46.038 | 3.094 | 78.588 | 0.813 | 20.650 | 0.917 | 0.416 | 20500 | 91 | 55000 | 243 | 3200 |
| **RTL23** | 1.875 | 47.625 | 3.219 | 81.763 | 0.813 | 20.650 | 0.999 | 0.453 | 10500 | 46.5 | 23500 | 104 | 3100 |
| **RTL24** | 1.938 | 49.213 | 3.219 | 81.763 | 0.813 | 20.650 | 0.964 | 0.437 | 21300 | 95 | 59000 | 260 | 3000 |
| RTL25 | 2.000 | 50.800 | 3.344 | 84.938 | 0.813 | 20.637 | 2.399 | 1.088 | 21200 | 94 | 59000 | 260 | 2900 |
| RTL27 | 2.125 | 53.975 | 3.594 | 91.288 | 0.813 | 20.650 | 1.226 | 0.556 | 29500 | 130 | 81000 | 360 | 2700 |
| **RTL28** | 2.188 | 55.563 | 3.594 | 91.288 | 0.813 | 20.650 | 1.186 | 0.538 | 29500 | 130 | 81000 | 360 | 2700 |
| **RTL29** | 2.250 | 57.150 | 3.719 | 94.463 | 0.813 | 20.650 | 1.279 | 0.580 | 29000 | 129 | 81000 | 360 | 2600 |
| **RTL31** | 2.375 | 60.325 | 3.844 | 97.638 | 0.813 | 20.650 | 1.332 | 0.604 | 30000 | 134 | 86000 | 385 | 2500 |
| **RTL32** | 2.438 | 61.913 | 3.844 | 97.638 | 0.813 | 20.650 | 1.288 | 0.584 | 30000 | 134 | 86000 | 385 | 2500 |
| RTL33 | 2.500 | 63.500 | 3.969 | 100.813 | 0.813 | 20.637 | 1.385 | 0.628 | 32500 | 145 | 96000 | 430 | 2400 |
| **RTL35** | 2.625 | 66.675 | 4.344 | 110.338 | 1.000 | 25.400 | 2.148 | 0.974 | 33000 | 147 | 101000 | 450 | 2200 |
| **RTL37** | 2.750 | 69.850 | 4.469 | 113.513 | 1.000 | 25.400 | 2.225 | 1.009 | 35500 | 159 | 112000 | 495 | 2100 |
| RTL41 | 3.000 | 76.200 | 4.719 | 119.863 | 1.000 | 25.400 | 2.379 | 1.079 | 39500 | 177 | 131000 | 580 | 2000 |
| **RTL43** | 3.250 | 82.550 | 4.969 | 126.213 | 1.000 | 25.400 | 2.534 | 1.149 | 40500 | 181 | 138000 | 610 | 1900 |
| RTL44 | 3.500 | 88.900 | 5.219 | 132.563 | 1.000 | 25.400 | 2.688 | 1.219 | 37000 | 164 | 124000 | 550 | 1800 |

# Cylindrical Roller Thrust Bearings

## RTW600 SERIES

- Medium cross section
- Single direction
- Self aligning
- Static Alignment = ± 3.0º
- Separable axial contact
- Available as non aligning RT600 series
- Speed limit shown is for oil lubrication




- Part numbers shown in bold may **not** be readily available, please call to check availability.

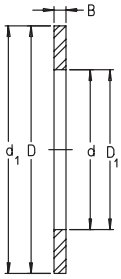
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH T inch | WIDTH T mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. kN | STAT. CAP. lbf | STAT. CAP. kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTW601 | 1.000 | 25.400 | 2.251 | 57.168 | 1.062 | 26.975 | 0.725 | 0.329 | 13100 | 58 | 24000 | 107 | 5500 |
| RTW602 | 1.060 | 26.924 | 2.251 | 57.168 | 1.062 | 26.975 | 0.703 | 0.319 | 13100 | 58 | 24000 | 107 | 5500 |
| **RTW603** | 1.125 | 28.575 | 2.375 | 60.325 | 1.062 | 26.975 | 0.781 | 0.354 | 14100 | 63 | 27000 | 120 | 5000 |
| RTW604 | 1.188 | 30.163 | 2.375 | 60.325 | 1.062 | 26.975 | 0.756 | 0.343 | 14100 | 63 | 27000 | 120 | 5000 |
| RTW605 | 1.250 | 31.750 | 2.500 | 63.500 | 1.063 | 26.988 | 0.838 | 0.380 | 16000 | 71 | 32000 | 143 | 4900 |
| **RTW606** | 1.313 | 33.338 | 2.500 | 63.500 | 1.062 | 26.975 | 0.800 | 0.363 | 16000 | 71 | 32000 | 143 | 4900 |
| **RTW607** | 1.375 | 34.925 | 3.000 | 76.200 | 1.062 | 26.975 | 1.270 | 0.576 | 21900 | 98 | 51000 | 226 | 4200 |
| **RTW608** | 1.438 | 36.513 | 3.000 | 76.200 | 1.602 | 40.691 | 1.868 | 0.847 | 21900 | 98 | 51000 | 226 | 4300 |
| RTW609 | 1.500 | 38.100 | 3.125 | 79.375 | 1.062 | 26.975 | 1.343 | 0.609 | 21300 | 95 | 49500 | 221 | 4000 |
| RTW610 | 1.563 | 39.688 | 3.125 | 79.375 | 1.062 | 26.975 | 1.308 | 0.593 | 20800 | 93 | 49500 | 221 | 3700 |
| RTW611 | 1.625 | 41.275 | 3.375 | 85.725 | 1.312 | 33.325 | 1.929 | 0.875 | 33500 | 148 | 75000 | 330 | 3700 |
| **RTW612** | 1.688 | 42.863 | 3.376 | 85.748 | 1.313 | 33.338 | 1.887 | 0.856 | 33500 | 149 | 75000 | 330 | 3700 |
| **RTW613** | 1.750 | 44.450 | 3.500 | 88.900 | 1.312 | 33.325 | 2.026 | 0.919 | 33000 | 147 | 75000 | 330 | 3500 |
| **RTW614** | 1.813 | 46.038 | 3.500 | 88.900 | 1.312 | 33.325 | 1.978 | 0.897 | 33000 | 146 | 75000 | 330 | 3500 |
| **RTW615** | 1.875 | 47.625 | 3.625 | 92.075 | 1.312 | 33.325 | 2.123 | 0.963 | 37500 | 166 | 90000 | 400 | 3400 |
| RTW616 | 1.938 | 49.213 | 3.625 | 92.075 | 1.312 | 33.325 | 2.070 | 0.939 | 37500 | 166 | 90000 | 400 | 3100 |
| RTW617 | 2.000 | 50.800 | 3.750 | 95.250 | 1.312 | 33.325 | 2.220 | 1.007 | 39000 | 173 | 95000 | 425 | 3200 |
| **RTW618** | 2.125 | 53.975 | 3.875 | 98.425 | 1.312 | 33.325 | 2.317 | 1.051 | 43500 | 193 | 111000 | 495 | 3100 |
| **RTW619** | 2.250 | 57.150 | 4.000 | 101.600 | 1.312 | 33.325 | 2.412 | 1.094 | 43500 | 193 | 111000 | 495 | 3100 |
| **RTW620** | 2.375 | 60.325 | 4.125 | 104.775 | 1.312 | 33.325 | 2.509 | 1.138 | 40500 | 179 | 103000 | 460 | 2800 |
| RTW621 | 2.500 | 63.500 | 4.250 | 107.950 | 1.312 | 33.325 | 2.606 | 1.182 | 42500 | 189 | 111000 | 495 | 2800 |
| RTW622 | 2.625 | 66.675 | 4.530 | 115.062 | 1.312 | 33.325 | 3.008 | 1.364 | 44000 | 196 | 119000 | 530 | 2600 |
| RTW623 | 2.750 | 69.850 | 4.655 | 118.237 | 1.313 | 33.338 | 3.113 | 1.412 | 43500 | 194 | 119000 | 530 | 2500 |
| **RTW624** | 3.000 | 76.200 | 4.969 | 126.213 | 1.312 | 33.325 | 3.462 | 1.570 | 49000 | 219 | 143000 | 640 | 2300 |
| **RTW625** | 3.250 | 82.550 | 5.220 | 132.585 | 1.313 | 33.338 | 3.682 | 1.670 | 47000 | 209 | 135000 | 600 | 2300 |
| RTW626 | 3.500 | 88.900 | 5.468 | 138.875 | 1.313 | 33.338 | 3.894 | 1.766 | 48000 | 214 | 143000 | 640 | 2100 |

# Axial Bearing Washers

## ZS SERIES

- Metric center washers for thrust bearings
- Housing or shaft guided
- For double direction axial bearing combinations
- Suitable for AXK and K811

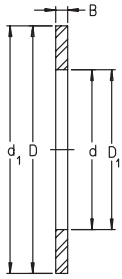



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | BEARING BORE FOR INNER CLAMPING inch | BEARING BORE FOR INNER CLAMPING mm | BEARING BORE FOR OUTER CLAMPING inch | BEARING BORE FOR INNER CLAMPING mm | WEIGHT lbs | WEIGHT kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZS 1127 | 0.433 | 11 | 1.063 | 27 | 0.217 | 5.5 | 0.591 | 15 | – | – | 0.046 | 0.021 |
| ZS 1329 | 0.512 | 13 | 1.142 | 29 | 0.217 | 5.5 | 0.669 | 17 | – | – | 0.051 | 0.023 |
| ZS 1634 | 0.630 | 16 | 1.339 | 34 | 0.217 | 5.5 | 0.787 | 20 | 0.591 | 15 | 0.068 | 0.031 |
| ZS 2141 | 0.827 | 21 | 1.614 | 41 | 0.236 | 6 | 0.984 | 25 | 0.787 | 20 | 0.099 | 0.045 |
| ZS 2646 | 1.024 | 26 | 1.811 | 46 | 0.276 | 7 | 1.181 | 30 | 0.984 | 25 | 0.132 | 0.06 |
| ZS 3151 | 1.221 | 31 | 2.008 | 51 | 0.315 | 8 | 1.378 | 35 | 1.181 | 30 | 0.172 | 0.078 |
| ZS 3159 | 1.221 | 31 | 2.323 | 59 | 0.315 | 8 | 1.575 | 40 | – | – | 0.276 | 0.125 |
| ZS 3664 | 1.417 | 36 | 2.520 | 64 | 0.354 | 9 | 1.772 | 45 | 1.378 | 35 | 0.344 | 0.156 |
| ZS 4169 | 1.614 | 41 | 2.717 | 69 | 0.394 | 10 | 1.969 | 50 | 1.575 | 40 | 0.421 | 0.191 |
| ZS 4677 | 1.811 | 46 | 3.032 | 77 | 0.394 | 10 | 2.165 | 55 | 1.772 | 45 | 0.518 | 0.235 |
| ZS 5184 | 2.008 | 51 | 3.307 | 84 | 0.453 | 11.5 | 2.362 | 60 | 1.969 | 50 | 0.697 | 0.316 |
| ZS 5689 | 2.205 | 56 | 3.504 | 89 | 0.472 | 12 | 2.559 | 65 | 2.165 | 55 | 0.794 | 0.36 |
| ZS 5694 | 2.205 | 56 | 3.701 | 94 | 0.492 | 12.5 | 2.756 | 70 | – | – | 0.97 | 0.44 |
| ZS 6199 | 2.402 | 61 | 3.898 | 99 | 0.492 | 12.5 | 2.953 | 75 | 2.362 | 60 | 1.036 | 0.47 |
| ZS 66104 | 2.598 | 66 | 4.095 | 104 | 0.492 | 12.5 | 3.150 | 80 | 2.559 | 65 | 1.103 | 0.5 |
| ZS 71109 | 2.795 | 71 | 4.291 | 109 | 0.571 | 14.5 | 3.347 | 85 | 2.756 | 70 | 1.308 | 0.593 |
| ZS 76119 | 2.992 | 76 | 4.685 | 119 | 0.630 | 16 | 3.543 | 90 | 2.953 | 75 | 1.777 | 0.806 |
| ZS 86134 | 3.386 | 86 | 5.276 | 134 | 0.709 | 18 | 3.937 | 100 | 3.347 | 85 | 2.602 | 1.18 |
| ZS 96144 | 3.780 | 96 | 5.669 | 144 | 0.787 | 20 | 4.331 | 110 | – | – | 3.153 | 1.43 |
| ZS 101154 | 3.976 | 101 | 6.063 | 154 | 0.866 | 22 | 4.724 | 120 | 3.937 | 100 | 4.035 | 1.83 |
| ZS 111169 | 4.370 | 111 | 6.654 | 169 | 0.866 | 22 | 5.118 | 130 | 4.331 | 110 | 4.873 | 2.21 |
| ZS 121179 | 4.764 | 121 | 7.047 | 179 | 0.906 | 23 | 5.512 | 140 | 4.724 | 120 | 5.424 | 2.46 |
| ZS 131189 | 5.158 | 131 | 7.441 | 189 | 0.945 | 24 | 5.906 | 150 | 5.118 | 130 | 6.042 | 2.74 |
| ZS 141199 | 5.551 | 141 | 7.835 | 199 | 0.984 | 25 | 6.299 | 160 | 5.512 | 140 | 6.681 | 3.03 |
| ZS 151214 | 5.945 | 151 | 8.425 | 214 | 1.063 | 27 | – | – | 5.906 | 150 | 8.445 | 3.83 |
| ZS 161224 | 6.339 | 161 | 8.819 | 224 | 1.142 | 29 | – | – | 6.299 | 160 | 9.592 | 4.35 |

# Axial Bearing Washers
## ZS SERIES

- Metric center washers for thrust bearings
- Housing or shaft guided
- For double direction axial bearing combinations
- Suitable for AXK and K811




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| BEARING FOR INNER CLAMPING | BEARING FOR OUTER CLAMPING | WASHER FOR INNER CLAMPING | WASHER FOR OUTER CLAMPING | BEARING FOR INNER CLAMPING | BEARING FOR OUTER CLAMPING | PART NUMBER |
|---|---|---|---|---|---|---|
| AXK 1528 | | GS 81102 | | K 81102 TN | K 81102 TN | ZS 1127 |
| AXK 1730 | | GS 81103 | | K 81103 TN | K 81103 TN | ZS 1329 |
| AXK 2035 | AXK 1528 | GS 81104 | WS 81102 | K 81104 TN | K 81104 TN | ZS 1634 |
| AXK 2542 | AXK 2035 | GS 81105 | WS 81104 | K 81105 TN | K 81105 TN | ZS 2141 |
| AXK 3047 | AXK 2542 | GS 81106 | WS 81105 | K 81106 TN | K 81106 TN | ZS 2646 |
| AXK 3552 | AXK 3047 | GS 81107 | WS 81106 | K 81107 TN | K 81107 TN | ZS 3151 |
| AXK 4060 | | GS 81108 | | K 81108 TN | K 81108 TN | ZS 3159 |
| AXK 4565 | AXK 3552 | GS 81109 | WS 81107 | K 81109 TN | K 81109 TN | ZS 3664 |
| AXK 5070 | AXK 4060 | GS 81110 | WS 81108 | K 81110 TN | K 81110 TN | ZS 4169 |
| AXK 5578 | AXK 4565 | GS 81111 | WS 81109 | K 81111 TN | K 81111 TN | ZS 4677 |
| AXK 6085 | AXK 5070 | GS 81112 | WS 81110 | K 81112 TN | K 81112 TN | ZS 5184 |
| AXK 6590 | AXK 5578 | GS 81113 | WS 81111 | K 81113 TN | K 81113 TN | ZS 5689 |
| AXK 7095 | | GS 81114 | | K 81114 TN | K 81114 TN | ZS 5694 |
| AXK 75100 | AXK 6085 | GS 81115 | WS 81112 | K 81115 TN | K 81115 TN | ZS 6199 |
| AXK 80105 | AXK 6590 | GS 81116 | WS 81113 | K 81116 TN | K 81116 TN | ZS 66104 |
| AXK 85110 | AXK 7095 | GS 81117 | WS 81114 | K 81117 TN | K 81117 TN | ZS 71109 |
| AXK 90120 | AXK 75100 | GS 81118 | WS 81115 | K 81118 TN | K 81118 TN | ZS 76119 |
| AXK 100135 | AXK 85110 | GS 81120 | WS 81117 | K 81120 TN | K 81120 TN | ZS 86134 |
| AXK 110145 | | GS 81122 | | K 81122 TN | K 81122 TN | ZS 96144 |
| AXK 120155 | AXK 100135 | GS 81124 | WS 81120 | K 81124 | K 81124 | ZS 101154 |
| AXK 130170 | AXK 110145 | GS 81126 | WS 81122 | K 81126 | K 81126 | ZS 111169 |
| AXK 140180 | AXK 120155 | GS 81128 | WS 81124 | K 81128 | K 81128 | ZS 121179 |
| AXK 150190 | AXK 130170 | GS 81130 | WS 81126 | K 81130 | K 81130 | ZS 131189 |
| AXK 160200 | AXK 140180 | GS 81132 | WS 81128 | K 81132 | K 81132 | ZS 141199 |
| | AXK 150190 | | WS 81130 | | | ZS 151214 |
| | AXK 160200 | | WS 81132 | | | ZS 161224 |

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# General Information
## RADIAL BALL BEARINGS

### PRODUCT DESCRIPTION

**INA Radial Ball Bearings**

- Available in Conrad style ISO series for miniature, light and medium duty radial bearings.
- Available in Conrad style steel caged angular contact double row bearings.
- Available sealed, shielded or open.
- Available as standard duty insert ball bearings with eccentric collar or set screw locking.

**INA Inch Mounted Units**

- Uses standard duty (6200) inserts with economy P or standard R seals.
- Inserts available with eccentric locking collar or set screw locking.
- Housings are cast iron to **ABMA** dimensional standards.
- Available as standard and low height pillow blocks, 2 or 4 bolt flange units.

**INA Metric Mounted Units**

- Uses standard duty (6200) inserts with economy P or standard R seals.
- Inserts available with eccentric locking collar or set screw locking.
- Housings are cast iron to **ABMA** dimensional standards.
- Available as standard, low height or tapped base pillow blocks, 2 or 4 bolt flange units, round 4 bolt or two bolt piloted flange, and take up units.
- Idler sprockets and tensioner units also available for inch or metric equipment.

# General Information
## RADIAL BALL BEARINGS

### PRODUCT DESCRIPTION
- Cast iron housing with ball bearing.
- Spherical interface between bearing and housing accommodates static misalignment of ± 2.5° with lubrication.
- Relubricable through housing.

### HOUSING
- Standard material is grey cast iron as per ASTM A48 class 30 or equivalent (ductile iron available on request subject to minimum quantity.)
- Protection is from a durable powder coat finish. Green is the standard color.
- Housing threaded for standard SAE grease nipples. $^1/_4$-28 UNF for (03) and (04) housings $^1/_8$ NPT for all other sizes.
- Machined surfaces tolerances ± 0.25mm (0.010")

### BEARING FEATURES
- Normal inch and metric shaft sizes.
- Fastened to shaft by eccentric locking collar or set screw. Drive pin, adapter sleeve.
- C3 clearance
- Supplied with initial fill of lithium based grease.

Standard tolerances for radial insert ball bearings

| INNER RING | | | | | OUTER RING | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Nominal size d mm | | | [1] Shaft µm | | Nominal size D mm | | | [2] Outside dia. µm | |
| over | | inc. | min. | max. | over | | inc. | min. | max. |
| 12 | — | 18 | 0 | +18 | 30 | — | 50 | 0 | –11 |
| 18 | — | 24 | 0 | +18 | 50 | — | 80 | 0 | –13 |
| 24 | — | 30 | 0 | +18 | 80 | — | 120 | 0 | –15 |
| 30 | — | 40 | 0 | +18 | 120 | — | 150 | 0 | –18 |
| 40 | — | 50 | 0 | +18 | 150 | — | 180 | 0 | –25 |
| 50 | — | 60 | 0 | +18 | 180 | — | 250 | 0 | –30 |
| 60 | — | 90 | 0 | +25 | | | | | |
| 90 | — | 120 | 0 | +30 | | | | | |

[1] Corresponds to the arithmetical mean of the largest and smallest single diameter (resulting from the two-point measurement.)

[2] The smallest and largest value of the outside diameter on sealed bearings may deviate from the mean value by approximately 0.03 mm.

- Nylon 6.6 cage suitable for 120° C, 250° F operation.
- Variety of seal types to suit application. All types are typically of a three piece construction i.e. rubber sealing lip sandwiched between two pieces of zinc plated steel. The steel components protect the rubber against abrasive media and insure that the seal assembly is positively locked into the outer ring.

### SHAFT FITS / LIMITING SPEEDS
For speeds up to the values listed in the dimension tables, the shaft should correspond to ISO tolerance limit h9. For higher speeds, shaft tolerance h5 is recommended and the INA Engineering Service should be contacted.

| **SHAFT SIZE mm.** | **10 INCL. 18** | **18 INCL. 30** | **30 INCL. 50** | **50 INCL. 80** | **80 INCL. 120** |
|---|---|---|---|---|---|
| tolerance h9 | 0 -43 | 0 -52 | 0 -62 | 0 -74 | 0 -87 |
| tolerance h6 | 0 -11 | 0 -13 | 0 -16 | 0 -19 | 0 -22 |
| tolerance h5 | 0 -8 | 0 -9 | 0 -11 | 0 -13 | 0 -15 |

values in m (1µm = 0.001 mm)

Speed factors for insert bearings - guide values.

| Seal type | Shaft tolerance | Load C/P | Speed factor n • d |
|---|---|---|---|
| L/P/R | h9 | 5 to 13 | 40,000 |
| L/P/R | h9 | >13 | 80,000 |
| L/P/R | h6 | >13 | 130,000 |
| L/P/R | h5 | >13 | 160,000 |
| P3 | h9 | >13 | 25,000 |
| Rubber interliner | h9 | >13 | 50,000 |
| GSH..RRB | h9 | >13 | 200,000 |

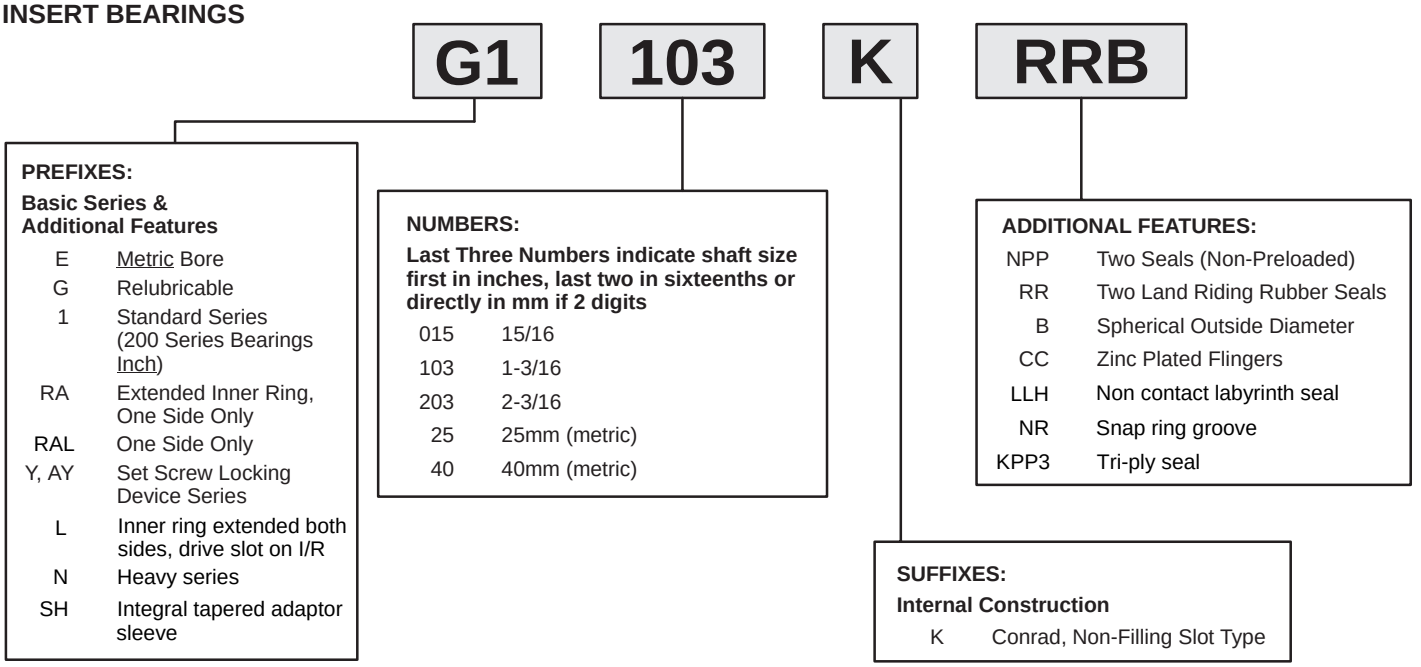
**Example:**
GRAE 30 NPPB, shaft tolerance h6, load P 1300 N.

Load C/P = 19,500/1,300 > 13
Speed factor n • d = 130,000
Permissible speed n = 130,000/30
≈ 4,300 $min^{-1}$

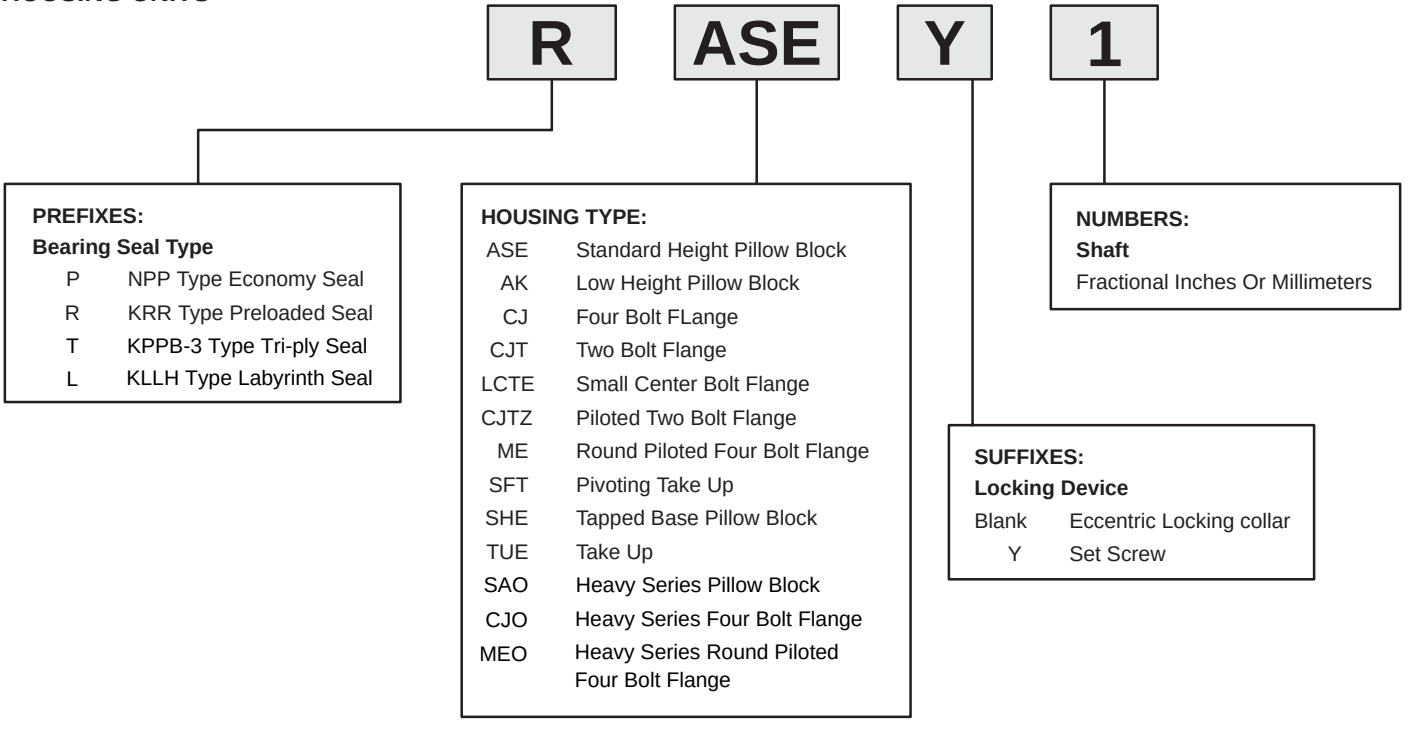
Many factors influence the permissible speed (n) RPM including the capacity to load ratio (C/P) and the relative size in mm (d). These guidelines also show when the shaft tolerance must be restricted.

# Part Number Identification
## RADIAL BALL BEARINGS

### INSERT BEARINGS

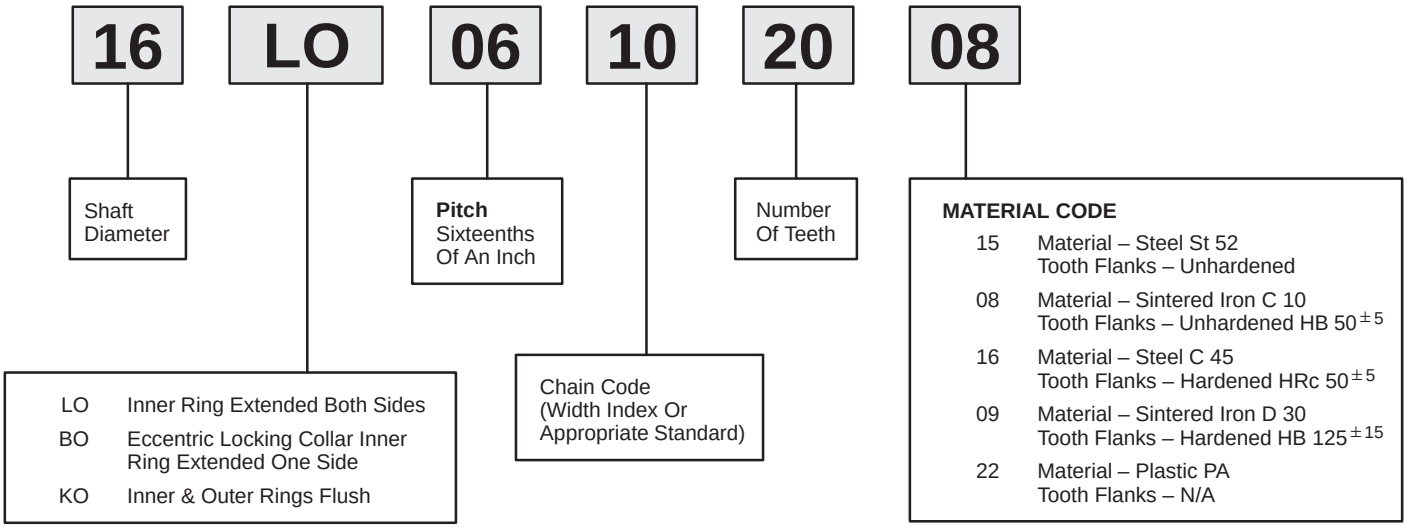



### HOUSING UNITS



# Part Number Identification
## RADIAL BALL BEARINGS

### IDLER SPROCKET



# Prefix & Suffix Interchange Chart

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| INA | | | FAFNIR | | | DODGE | | | SKF | | | SEALMASTER | | | LINKBELT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | / | SUF | PRE | / | SUF | PRE | / | SUF | PRE | / | SUF | PRE | / | SUF | PRE | / | SUF |
| PASE | | | VAS | | | P2BSXV | | | SY | / | FM | VP | / | E | P3W | | |
| PASEY | | | SAS | | | P2BSCV | | | | | | VP | | | | | |
| PAK | | | VAK | | | P2BSXVB | | | SYH | / | FM | | | | PL3Y | / | N |
| PAKY | | | SAK | | | P2BSCVB | | | | | | | | | PL3U | / | N |
| PCJ | | | [P]VCJ | | | F4BSXV | | | FY | / | FM | VF | / | E | F3W | / | U |
| PCJY | | | SCJ | | | F4BSCV | | | | | | VF | | | | | |
| PCJT | | | VCJT | | | F2BSXV | | | FYT(B) | / | FM | VFT | / | E | FX3W | / | U |
| PCJTY | | | SCJT | | | F2BSCV | | | | | | | | | FX3S | / | E |

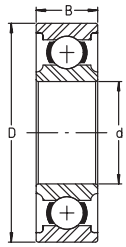
| INA | | | FAFNIR | | | DODGE | | | SKF | | | SEALMASTER | | | LINKBELT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PRE | / | SUF | PRE | / | SUF | PRE | / | SUF | PRE | / | SUF | PRE | / | SUF | PRE | / | SUF |
| RASE | | | RAS | | | P2BSXR | | | | | | NP | / | E | P3Y | | |
| RASEY | | | YAS | | | P2BSC | | | SY | / | TM | NP | | | | | |
| RAK | | | RAK | | | P2BSXRB | | | SYH | / | WM | NPL | / | E | PL3Y | | |
| RAKY | | | YAK | | | P2BSCB | | | | | | NPL | | | | | |
| RCJ | | | RCJ | | | F4BSXR | | | FY | / | WM | RF | / | E | F3Y | | |
| RCJY | | | YCJ | | | F4BSC | | | FY | / | TM | RF | | | | | |
| RCJT | | | RCJT | | | F2BSXR | | | FYT | / | WM | RFT | / | E | FX3Y | | |
| RCJTY | | | YCJT | | | F2BSC | | | FYT | / | TM | RFT | | | | | |

This interchange list is based on catalogs known to INA.
INA USA Corporation cannot assume responsibility for errors, inaccuracies or any damages arising from use of this data.
In case of doubt please contact an INA Sales Representative at a location nearest you.

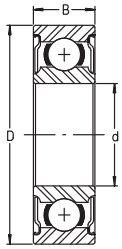
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# Ball Bearings
## 600 SERIES

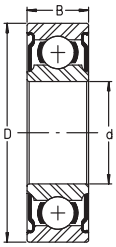
- Metric series
- Conrad ball bearings
- Miniature, extra-light, light, medium series
- Available as open, shielded or sealed



OPEN



2Z SHIELDED



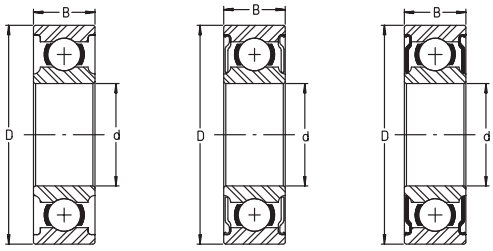
2RS SEALED

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 626 | 0.2362 | 6 | 0.748 | 19 | 0.2362 | 6 | 0.019 | 8.4 | 530 | 2340 | 200 | 890 | 39000 |
| 626 2RS | 0.2362 | 6 | 0.748 | 19 | 0.2362 | 6 | 0.019 | 8.4 | 530 | 2340 | 200 | 890 | 30000 |
| 6262Z | 0.2362 | 6 | 0.748 | 19 | 0.2362 | 6 | 0.019 | 8.4 | 530 | 2340 | 200 | 890 | 39000 |
| 607 | 0.2756 | 7 | 0.748 | 19 | 0.2362 | 6 | 0.017 | 7.5 | 530 | 2360 | 205 | 910 | 40000 |
| 6072RS | 0.2756 | 7 | 0.748 | 19 | 0.2362 | 6 | 0.017 | 7.5 | 530 | 2360 | 205 | 910 | 28000 |
| 6072Z | 0.2756 | 7 | 0.748 | 19 | 0.2362 | 6 | 0.017 | 7.5 | 530 | 2360 | 205 | 910 | 40000 |
| 627 | 0.2756 | 7 | 0.8661 | 22 | 0.2756 | 7 | 0.029 | 13 | 730 | 3250 | 305 | 1350 | 37000 |
| 6272RS | 0.2756 | 7 | 0.8661 | 22 | 0.2756 | 7 | 0.029 | 13 | 730 | 3250 | 305 | 1350 | 23000 |
| 6272Z | 0.2756 | 7 | 0.8661 | 22 | 0.2756 | 7 | 0.029 | 13 | 730 | 3250 | 305 | 1350 | 37000 |
| 698 | 0.315 | 8 | 0.748 | 19 | 0.2362 | 6 | 0.016 | 7.3 | 500 | 2240 | 196 | 870 | 38000 |
| 6982Z | 0.315 | 8 | 0.748 | 19 | 0.2362 | 6 | 0.016 | 7.3 | 500 | 2240 | 196 | 870 | 38000 |
| 608 | 0.315 | 8 | 0.8661 | 22 | 0.2756 | 7 | 0.026 | 12 | 760 | 3380 | 295 | 1320 | 37000 |
| 608RS | 0.315 | 8 | 0.8661 | 22 | 0.2756 | 7 | 0.026 | 12 | 760 | 3380 | 295 | 1320 | 23000 |
| 6082Z | 0.315 | 8 | 0.8661 | 22 | 0.2756 | 7 | 0.026 | 12 | 760 | 3380 | 295 | 1320 | 37000 |
| 628 | 0.315 | 8 | 0.9449 | 24 | 0.315 | 8 | 0.035 | 16 | 750 | 3350 | 315 | 1410 | 36000 |
| 6282RS | 0.315 | 8 | 0.9449 | 24 | 0.315 | 8 | 0.035 | 16 | 750 | 3350 | 315 | 1410 | 22000 |
| 6282Z | 0.315 | 8 | 0.9449 | 24 | 0.315 | 8 | 0.035 | 16 | 750 | 3350 | 315 | 1410 | 36000 |
| 699 | 0.3543 | 9 | 0.7874 | 20 | 0.2362 | 6 | 0.017 | 7.8 | 385 | 1710 | 166 | 740 | 37000 |
| 6992Z | 0.3543 | 9 | 0.7874 | 20 | 0.2362 | 6 | 0.017 | 7.8 | 385 | 1710 | 166 | 740 | 37000 |
| 609 | 0.3543 | 9 | 0.9449 | 24 | 0.2756 | 7 | 0.031 | 14 | 780 | 3450 | 320 | 1430 | 36000 |
| 6092RS | 0.3543 | 9 | 0.9449 | 24 | 0.2756 | 7 | 0.031 | 14 | 780 | 3450 | 320 | 1430 | 22000 |
| 6092Z | 0.3543 | 9 | 0.9449 | 24 | 0.2756 | 7 | 0.031 | 14 | 780 | 3450 | 320 | 1430 | 36000 |
| 629 | 0.3543 | 9 | 1.0236 | 26 | 0.315 | 8 | 0.044 | 20 | 1020 | 4550 | 440 | 1960 | 35000 |
| 6292RS | 0.3543 | 9 | 1.0236 | 26 | 0.315 | 8 | 0.044 | 20 | 1020 | 4550 | 440 | 1960 | 21000 |
| 6292Z | 0.3543 | 9 | 1.0236 | 26 | 0.315 | 8 | 0.044 | 20 | 1020 | 4550 | 440 | 1960 | 35000 |
| 6000 | 0.3937 | 10 | 1.0236 | 26 | 0.315 | 8 | 0.042 | 19 | 1030 | 4600 | 440 | 1950 | 34000 |
| 60002RS | 0.3937 | 10 | 1.0236 | 26 | 0.315 | 8 | 0.042 | 19 | 1030 | 4600 | 440 | 1950 | 21000 |
| 60002Z | 0.3937 | 10 | 1.0236 | 26 | 0.315 | 8 | 0.042 | 19 | 1030 | 4600 | 440 | 1950 | 34000 |
| 6200 | 0.3937 | 10 | 1.1811 | 30 | 0.3543 | 9 | 0.071 | 32 | 1370 | 6100 | 580 | 2600 | 32000 |
| 62002RS | 0.3937 | 10 | 1.1811 | 30 | 0.3543 | 9 | 0.071 | 32 | 1370 | 6100 | 580 | 2600 | 17000 |
| 62002Z | 0.3937 | 10 | 1.1811 | 30 | 0.3543 | 9 | 0.071 | 32 | 1370 | 6100 | 580 | 2600 | 32000 |
| 6300 | 0.3937 | 10 | 1.378 | 35 | 0.4331 | 11 | 0.119 | 54 | 1750 | 7800 | 810 | 3600 | 28000 |
| 63002RS | 0.3937 | 10 | 1.378 | 35 | 0.4331 | 11 | 0.119 | 54 | 1750 | 7800 | 810 | 3600 | 15000 |
| 63002Z | 0.3937 | 10 | 1.378 | 35 | 0.4331 | 11 | 0.119 | 54 | 1750 | 7800 | 810 | 3600 | 28000 |
| 6001 | 0.4724 | 12 | 1.1024 | 28 | 0.315 | 8 | 0.049 | 22 | 1150 | 5100 | 530 | 2350 | 31000 |
| 60012RS | 0.4724 | 12 | 1.1024 | 28 | 0.315 | 8 | 0.049 | 22 | 1150 | 5100 | 530 | 2350 | 18000 |
| 60012Z | 0.4724 | 12 | 1.1024 | 28 | 0.315 | 8 | 0.049 | 22 | 1150 | 5100 | 530 | 2350 | 31000 |
| 6201 | 0.4724 | 12 | 1.2598 | 32 | 0.3937 | 10 | 0.082 | 37 | 1550 | 6900 | 670 | 3000 | 30000 |
| 62012RS | 0.4724 | 12 | 1.2598 | 32 | 0.3937 | 10 | 0.082 | 37 | 1550 | 6900 | 670 | 3000 | 16000 |
| 62012Z | 0.4724 | 12 | 1.2598 | 32 | 0.3937 | 10 | 0.082 | 37 | 1550 | 6900 | 670 | 3000 | 30000 |
| 6301 | 0.4724 | 12 | 1.4567 | 37 | 0.4724 | 12 | 0.135 | 61 | 2410 | 10700 | 1100 | 4900 | 26000 |
| 63012RS | 0.4724 | 12 | 1.4567 | 37 | 0.4724 | 12 | 0.135 | 61 | 2410 | 10700 | 1100 | 4900 | 13000 |
| 63012Z | 0.4724 | 12 | 1.4567 | 37 | 0.4724 | 12 | 0.135 | 61 | 2410 | 10700 | 1100 | 4900 | 26000 |
| 6002 | 0.5906 | 15 | 1.2598 | 32 | 0.3543 | 9 | 0.066 | 30 | 1260 | 5600 | 640 | 2850 | 30000 |
| 60022RS | 0.5906 | 15 | 1.2598 | 32 | 0.3543 | 9 | 0.066 | 30 | 1260 | 5600 | 640 | 2850 | 15000 |
| 60022Z | 0.5906 | 15 | 1.2598 | 32 | 0.3543 | 9 | 0.066 | 30 | 1260 | 5600 | 640 | 2850 | 30000 |

# Ball Bearings
## 600 SERIES

- Metric series
- Conrad ball bearings
- Miniature, extra-light, light, medium series
- Available as open, shielded or sealed



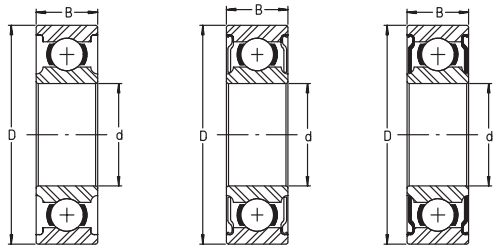

OPEN | 2Z SHIELDED | 2RS SEALED

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6202 | 0.5906 | 15 | 1.378 | 35 | 0.4331 | 11 | 0.099 | 45 | 1730 | 7700 | 790 | 3500 | 26000 |
| 62022RS | 0.5906 | 15 | 1.378 | 35 | 0.4331 | 11 | 0.099 | 45 | 1730 | 7700 | 790 | 3450 | 20000 |
| 62022Z | 0.5906 | 15 | 1.378 | 35 | 0.4331 | 11 | 0.099 | 45 | 1730 | 7700 | 790 | 3450 | 26000 |
| 6302 | 0.5906 | 15 | 1.6535 | 42 | 0.5118 | 13 | 0.187 | 85 | 2550 | 11300 | 1190 | 5300 | 22000 |
| 63022RS | 0.5906 | 15 | 1.6535 | 42 | 0.5118 | 13 | 0.187 | 85 | 2550 | 11300 | 1190 | 5300 | 12000 |
| 63022Z | 0.5906 | 15 | 1.6535 | 42 | 0.5118 | 13 | 0.187 | 85 | 2550 | 11300 | 1190 | 5300 | 22000 |
| 6003 | 0.6693 | 17 | 1.378 | 35 | 0.3937 | 10 | 0.086 | 39 | 1300 | 5800 | 630 | 2800 | 28000 |
| 60032RS | 0.6693 | 17 | 1.378 | 35 | 0.3937 | 10 | 0.086 | 39 | 1300 | 5800 | 630 | 2800 | 13000 |
| 60032Z | 0.6693 | 17 | 1.378 | 35 | 0.3937 | 10 | 0.086 | 39 | 1300 | 5800 | 630 | 2800 | 28000 |
| 6203 | 0.6693 | 17 | 1.5748 | 40 | 0.4724 | 12 | 0.143 | 65 | 2160 | 9600 | 1010 | 4500 | 22000 |
| 62032RS | 0.6693 | 17 | 1.5748 | 40 | 0.4724 | 12 | 0.143 | 65 | 2160 | 9600 | 1010 | 4500 | 12000 |
| 62032Z | 0.6693 | 17 | 1.5748 | 40 | 0.4724 | 12 | 0.143 | 65 | 2160 | 9600 | 1010 | 4500 | 22000 |
| 6303 | 0.6693 | 17 | 1.8504 | 47 | 0.5512 | 14 | 0.245 | 111 | 3050 | 13500 | 1390 | 6200 | 19000 |
| 63032RS | 0.6693 | 17 | 1.8504 | 47 | 0.5512 | 14 | 0.245 | 111 | 3050 | 13500 | 1390 | 6200 | 11000 |
| 63032Z | 0.6693 | 17 | 1.8504 | 47 | 0.5512 | 14 | 0.245 | 111 | 3050 | 13500 | 1390 | 6200 | 19000 |
| 6004 | 0.7874 | 20 | 1.6535 | 42 | 0.4724 | 12 | 0.152 | 69 | 2110 | 9400 | 1120 | 5000 | 20000 |
| 60042RS | 0.7874 | 20 | 1.6535 | 42 | 0.4724 | 12 | 0.152 | 69 | 2110 | 9400 | 1120 | 5000 | 11000 |
| 60042Z | 0.7874 | 20 | 1.6535 | 42 | 0.4724 | 12 | 0.152 | 69 | 2110 | 9400 | 1120 | 5000 | 20000 |
| 6204 | 0.7874 | 20 | 1.8504 | 47 | 0.5512 | 14 | 0.243 | 110 | 2850 | 12700 | 1460 | 6500 | 18000 |
| 62042RS | 0.7874 | 20 | 1.8504 | 47 | 0.5512 | 14 | 0.243 | 110 | 2850 | 12700 | 1460 | 6500 | 10000 |
| 62042Z | 0.7874 | 20 | 1.8504 | 47 | 0.5512 | 14 | 0.243 | 110 | 2850 | 12700 | 1460 | 6500 | 18000 |
| 6304 | 0.7874 | 20 | 2.0472 | 52 | 0.5906 | 15 | 0.326 | 148 | 3550 | 15900 | 1750 | 7800 | 17000 |
| 63042RS | 0.7874 | 20 | 2.0472 | 52 | 0.5906 | 15 | 0.326 | 148 | 3550 | 15900 | 1750 | 7800 | 9000 |
| 63042Z | 0.7874 | 20 | 2.0472 | 52 | 0.5906 | 15 | 0.326 | 148 | 3550 | 15900 | 1750 | 7800 | 17000 |
| 6005 | 0.9843 | 25 | 1.8504 | 47 | 0.4724 | 12 | 0.176 | 80 | 2500 | 11200 | 1460 | 6500 | 18000 |
| 60052RS | 0.9843 | 25 | 1.8504 | 47 | 0.4724 | 12 | 0.176 | 80 | 2500 | 11200 | 1460 | 6500 | 9500 |
| 60052Z | 0.9843 | 25 | 1.8504 | 47 | 0.7087 | 18 | 0.176 | 80 | 2500 | 11200 | 1460 | 6500 | 18000 |
| 6205 | 0.9843 | 25 | 2.0472 | 52 | 0.5906 | 15 | 0.287 | 130 | 3150 | 14000 | 1750 | 7800 | 17000 |
| 62052RS | 0.9843 | 25 | 2.0472 | 52 | 0.5906 | 15 | 0.287 | 130 | 3150 | 14000 | 1750 | 7800 | 9000 |
| 62052Z | 0.9843 | 25 | 2.0472 | 52 | 0.5906 | 15 | 0.287 | 130 | 3150 | 14000 | 1750 | 7800 | 17000 |
| 6305 | 0.9843 | 25 | 2.4409 | 62 | 0.6693 | 17 | 0.512 | 232 | 4650 | 20600 | 2550 | 11300 | 14000 |
| 63052RS | 0.9843 | 25 | 2.4409 | 62 | 0.6693 | 17 | 0.512 | 232 | 4650 | 20600 | 2550 | 11300 | 7500 |
| 63052Z | 0.9843 | 25 | 2.4409 | 62 | 0.6693 | 17 | 0.512 | 232 | 4650 | 20600 | 2550 | 11300 | 14000 |
| 6006 | 1.1811 | 30 | 2.1654 | 55 | 0.5118 | 13 | 0.265 | 120 | 2950 | 13200 | 1870 | 8300 | 16000 |
| 60062RS | 1.1811 | 30 | 2.1654 | 55 | 0.5118 | 13 | 0.265 | 120 | 2950 | 13200 | 1870 | 8300 | 8000 |
| 60062Z | 1.1811 | 30 | 2.1654 | 55 | 0.5118 | 13 | 0.265 | 120 | 2950 | 13200 | 1870 | 8300 | 16000 |
| 6206 | 1.1811 | 30 | 2.4409 | 62 | 0.6299 | 16 | 0.441 | 200 | 4400 | 19500 | 2500 | 11200 | 14000 |
| 62062RS | 1.1811 | 30 | 2.4409 | 62 | 0.6299 | 16 | 0.441 | 200 | 4400 | 19500 | 2500 | 11200 | 7500 |
| 62062Z | 1.1811 | 30 | 2.4409 | 62 | 0.6299 | 16 | 0.441 | 200 | 4400 | 19500 | 2500 | 11200 | 14000 |
| 6306 | 1.1811 | 30 | 2.8346 | 72 | 0.748 | 19 | 0.772 | 350 | 6000 | 26500 | 3350 | 15000 | 12000 |
| 63062RS | 1.1811 | 30 | 2.8346 | 72 | 0.748 | 19 | 0.772 | 350 | 6000 | 26500 | 3350 | 15000 | 6300 |
| 63062Z | 1.1811 | 30 | 2.8346 | 72 | 0.748 | 19 | 0.772 | 350 | 6000 | 26500 | 3350 | 15000 | 12000 |
| 6007 | 1.378 | 35 | 2.4409 | 62 | 0.5512 | 14 | 0.333 | 151 | 3600 | 16000 | 2320 | 10300 | 14000 |
| 60072RS | 1.378 | 35 | 2.4409 | 62 | 0.5512 | 14 | 0.333 | 151 | 3600 | 16000 | 2320 | 10300 | 7000 |
| 60072Z | 1.378 | 35 | 2.4409 | 62 | 0.5512 | 14 | 0.333 | 151 | 3600 | 16000 | 2320 | 10300 | 14000 |
| 6207 | 1.378 | 35 | 2.8346 | 72 | 0.6693 | 17 | 0.639 | 290 | 5700 | 25500 | 3450 | 15300 | 12000 |

# Ball Bearings
## 600 SERIES

- Metric series
- Conrad ball bearings
- Miniature, extra-light, light, medium series
- Available as open, shielded or sealed



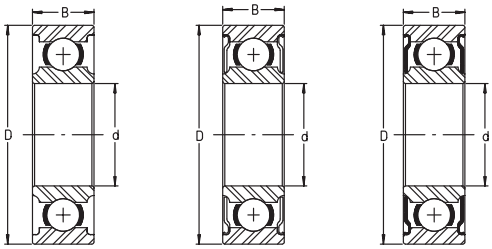

OPEN | 2Z SHIELDED | 2RS SEALED

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 62072RS | 1.378 | 35 | 2.8346 | 72 | 0.6693 | 17 | 0.639 | 290 | 5700 | 25500 | 3450 | 15300 | 6300 |
| 62072Z | 1.378 | 35 | 2.8346 | 72 | 0.6693 | 17 | 0.639 | 290 | 5700 | 25500 | 3450 | 15300 | 12000 |
| 6307 | 1.378 | 35 | 3.1496 | 80 | 0.8268 | 21 | 1.014 | 460 | 7500 | 33500 | 4300 | 19200 | 10000 |
| 63072RS | 1.378 | 35 | 3.1496 | 80 | 0.8268 | 21 | 1.014 | 460 | 7500 | 33500 | 4300 | 19200 | 5600 |
| 63072Z | 1.378 | 35 | 3.1496 | 80 | 0.8268 | 21 | 1.014 | 460 | 7500 | 33500 | 4300 | 19200 | 10000 |
| 6008 | 1.5748 | 40 | 2.6772 | 68 | 0.5906 | 15 | 0.419 | 190 | 3800 | 16800 | 2600 | 11500 | 13000 |
| 60082RS | 1.5748 | 40 | 2.6772 | 68 | 0.5906 | 15 | 0.419 | 190 | 3800 | 16800 | 2600 | 11500 | 6300 |
| 60082Z | 1.5748 | 40 | 2.6772 | 68 | 0.5906 | 15 | 0.419 | 190 | 3800 | 16800 | 2600 | 11500 | 13000 |
| 6208 | 1.5748 | 40 | 3.1496 | 80 | 0.7087 | 18 | 0.807 | 366 | 6500 | 29000 | 4000 | 17800 | 10000 |
| 62082RS | 1.5748 | 40 | 3.1496 | 80 | 0.7087 | 18 | 0.807 | 366 | 6500 | 29000 | 4000 | 17800 | 5600 |
| 62082Z | 1.5748 | 40 | 3.1496 | 80 | 0.7087 | 18 | 0.807 | 366 | 6500 | 29000 | 4000 | 17800 | 10000 |
| 6308 | 1.5748 | 40 | 3.5433 | 90 | 0.9055 | 23 | 1.389 | 630 | 10200 | 45500 | 5800 | 26000 | 9000 |
| 63082RS | 1.5748 | 40 | 3.5433 | 90 | 0.9055 | 23 | 1.389 | 630 | 10200 | 45500 | 5800 | 26000 | 5000 |
| 63082Z | 1.5748 | 40 | 3.5433 | 90 | 0.9055 | 23 | 1.389 | 630 | 10200 | 45500 | 5800 | 26000 | 9000 |
| 6009 | 1.7717 | 45 | 2.9528 | 75 | 0.6299 | 16 | 0.512 | 232 | 4650 | 20700 | 3250 | 14500 | 11000 |
| 60092RS | 1.7717 | 45 | 2.9528 | 75 | 0.6299 | 16 | 0.512 | 232 | 4650 | 20700 | 3250 | 14500 | 5600 |
| 60092Z | 1.7717 | 45 | 2.9528 | 75 | 0.6299 | 16 | 0.512 | 232 | 4650 | 20700 | 3250 | 14500 | 11000 |
| 6209 | 1.7717 | 45 | 3.3465 | 85 | 0.748 | 19 | 0.893 | 405 | 7300 | 32500 | 4600 | 20400 | 9500 |
| 62092RS | 1.7717 | 45 | 3.3465 | 85 | 0.748 | 19 | 0.893 | 405 | 7300 | 32500 | 4600 | 20400 | 5300 |
| 62092Z | 1.7717 | 45 | 3.3465 | 85 | 0.748 | 19 | 0.893 | 405 | 7300 | 32500 | 4600 | 20400 | 9500 |
| 6309 | 1.7717 | 45 | 3.937 | 100 | 0.9843 | 25 | 1.874 | 850 | 11900 | 53000 | 7100 | 31500 | 8000 |
| 63092RS | 1.7717 | 45 | 3.937 | 100 | 0.9843 | 25 | 1.874 | 850 | 11900 | 53000 | 7100 | 31500 | 4500 |
| 63092Z | 1.7717 | 45 | 3.937 | 100 | 0.9843 | 25 | 1.874 | 850 | 11900 | 53000 | 7100 | 31500 | 8000 |
| 6010 | 1.9685 | 50 | 3.1496 | 80 | 0.6299 | 16 | 0.576 | 261 | 4850 | 21600 | 3600 | 16000 | 10000 |
| 60102RS | 1.9685 | 50 | 3.1496 | 80 | 0.6299 | 16 | 0.576 | 261 | 4850 | 21600 | 3600 | 16000 | 5300 |
| 60102Z | 1.9685 | 50 | 3.1496 | 80 | 0.6299 | 16 | 0.576 | 261 | 4850 | 21600 | 3600 | 16000 | 10000 |
| 6210 | 1.9685 | 50 | 3.5433 | 90 | 0.7874 | 20 | 1.001 | 454 | 7900 | 35000 | 5200 | 23200 | 9000 |
| 62102RS | 1.9685 | 50 | 3.5433 | 90 | 0.7874 | 20 | 1.001 | 454 | 7900 | 35000 | 5200 | 23200 | 4800 |
| 62102Z | 1.9685 | 50 | 3.5433 | 90 | 0.7874 | 20 | 1.001 | 454 | 7900 | 35000 | 5200 | 23200 | 9000 |
| 6310 | 1.9685 | 50 | 4.3307 | 110 | 1.063 | 27 | 2.43 | 1102 | 13900 | 62000 | 8500 | 38000 | 7000 |
| 63102RS | 1.9685 | 50 | 4.3307 | 110 | 1.063 | 27 | 2.43 | 1102 | 13900 | 62000 | 8500 | 38000 | 4000 |
| 63102Z | 1.9685 | 50 | 4.3307 | 110 | 1.063 | 27 | 2.43 | 1102 | 13900 | 62000 | 8500 | 38000 | 7000 |
| 6011 | 2.1654 | 55 | 3.5433 | 90 | 0.7087 | 18 | 0.831 | 377 | 6300 | 28000 | 4750 | 21200 | 9000 |
| 60112RS | 2.1654 | 55 | 3.5433 | 90 | 0.7087 | 18 | 0.831 | 377 | 6300 | 28000 | 4750 | 21200 | 4500 |
| 60112Z | 2.1654 | 55 | 3.5433 | 90 | 0.7087 | 18 | 0.831 | 377 | 6300 | 28000 | 4750 | 21200 | 9000 |
| 6211 | 2.1654 | 55 | 3.937 | 100 | 0.8268 | 21 | 1.341 | 608 | 9700 | 43000 | 6500 | 29000 | 8000 |
| 62112RS | 2.1654 | 55 | 3.937 | 100 | 0.8268 | 21 | 1.341 | 608 | 9700 | 43000 | 6500 | 29000 | 4300 |
| 62112Z | 2.1654 | 55 | 3.937 | 100 | 0.8268 | 21 | 1.341 | 608 | 9700 | 43000 | 6500 | 29000 | 8000 |
| 6311 | 2.1654 | 55 | 4.7244 | 120 | 1.1417 | 29 | 3.065 | 1390 | 16500 | 73500 | 10400 | 46300 | 6300 |
| 63112RS | 2.1654 | 55 | 4.7244 | 120 | 1.1417 | 29 | 3.065 | 1390 | 16500 | 73500 | 10400 | 46300 | 3600 |
| 63112Z | 2.1654 | 55 | 4.7244 | 120 | 1.1417 | 29 | 3.065 | 1390 | 16500 | 73500 | 10400 | 46300 | 6300 |
| 6012 | 2.3622 | 60 | 3.7402 | 95 | 0.7087 | 18 | 0.904 | 410 | 6600 | 29500 | 5200 | 23200 | 8500 |
| 60122RS | 2.3622 | 60 | 3.7402 | 95 | 0.7087 | 18 | 0.904 | 410 | 6600 | 29500 | 5200 | 23200 | 4300 |
| 60122Z | 2.3622 | 60 | 3.7402 | 95 | 0.7087 | 18 | 0.904 | 410 | 6600 | 29500 | 5200 | 23200 | 8500 |
| 6212 | 2.3622 | 60 | 4.3307 | 110 | 0.8661 | 22 | 1.731 | 785 | 11700 | 52000 | 8100 | 36000 | 7000 |
| 62122RS | 2.3622 | 60 | 4.3307 | 110 | 0.8661 | 22 | 1.731 | 785 | 11700 | 52000 | 8100 | 36000 | 4000 |

# Ball Bearings
## 600 SERIES

- Metric series
- Conrad ball bearings
- Miniature, extra-light, light, medium series
- Available as open, shielded or sealed




OPEN | 2Z SHIELDED | 2RS SEALED

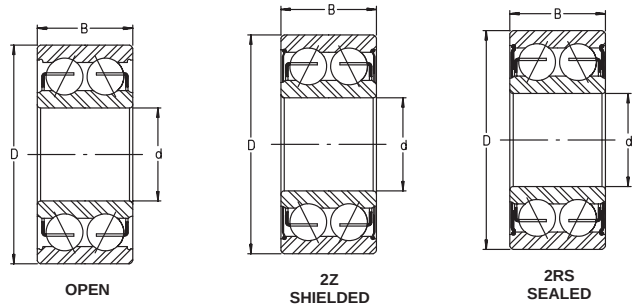
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 62122Z | 2.3622 | 60 | 4.3307 | 110 | 0.8661 | 22 | 1.731 | 785 | 11700 | 52000 | 8100 | 36000 | 7000 |
| 6312 | 2.3622 | 60 | 5.1181 | 130 | 1.2205 | 31 | 3.793 | 1720 | 18400 | 82000 | 11700 | 52000 | 6000 |
| 63122RS | 2.3622 | 60 | 5.1181 | 130 | 1.2205 | 31 | 3.793 | 1720 | 18400 | 82000 | 11700 | 52000 | 3400 |
| 63122Z | 2.3622 | 60 | 5.1181 | 130 | 1.2205 | 31 | 3.793 | 1720 | 18400 | 82000 | 11700 | 52000 | 6000 |
| 6013 | 2.5591 | 65 | 3.937 | 100 | 0.7087 | 18 | 0.961 | 436 | 6900 | 30500 | 5600 | 25000 | 7500 |
| 60132RS | 2.5591 | 65 | 3.937 | 100 | 0.7087 | 18 | 0.961 | 436 | 6900 | 30500 | 5600 | 25000 | 4000 |
| 60132Z | 2.5591 | 65 | 3.937 | 100 | 0.7087 | 18 | 0.961 | 436 | 6900 | 30500 | 5600 | 25000 | 7500 |
| 6213 | 2.5591 | 65 | 4.7244 | 120 | 0.9055 | 23 | 2.165 | 982 | 12800 | 57000 | 9000 | 40000 | 6300 |
| 62132RS | 2.5591 | 65 | 4.7244 | 120 | 0.9055 | 23 | 2.165 | 982 | 12800 | 57000 | 9000 | 40000 | 3600 |
| 62132Z | 2.5591 | 65 | 4.7244 | 120 | 0.9055 | 23 | 2.165 | 982 | 12800 | 57000 | 9000 | 40000 | 6300 |
| 6313 | 2.5591 | 65 | 5.5118 | 140 | 1.2992 | 33 | 4.697 | 2130 | 20900 | 93000 | 13500 | 60000 | 5300 |
| 63132RS | 2.5591 | 65 | 5.5118 | 140 | 1.2992 | 33 | 4.697 | 2130 | 20900 | 93000 | 13500 | 60000 | 3000 |
| 63132Z | 2.5591 | 65 | 5.5118 | 140 | 1.2992 | 33 | 4.697 | 2130 | 20900 | 93000 | 13500 | 60000 | 5300 |
| 6014 | 2.7559 | 70 | 4.3307 | 110 | 0.7874 | 20 | 1.33 | 603 | 8500 | 38000 | 7000 | 31000 | 7000 |
| 60142RS | 2.7559 | 70 | 4.3307 | 110 | 0.7874 | 20 | 1.33 | 603 | 8500 | 38000 | 7000 | 31000 | 3600 |
| 60142Z | 2.7559 | 70 | 4.3307 | 110 | 0.7874 | 20 | 1.33 | 603 | 8500 | 38000 | 7000 | 31000 | 7000 |
| 6214 | 2.7559 | 70 | 4.9213 | 125 | 0.9449 | 24 | 2.379 | 1079 | 13900 | 62000 | 9900 | 44000 | 6000 |
| 62142RS | 2.7559 | 70 | 4.9213 | 125 | 0.9449 | 24 | 2.379 | 1079 | 13900 | 62000 | 9900 | 44000 | 3400 |
| 62142Z | 2.7559 | 70 | 4.9213 | 125 | 0.9449 | 24 | 2.379 | 1079 | 13900 | 62000 | 9900 | 44000 | 6000 |
| 6314 | 2.7559 | 70 | 5.9055 | 150 | 1.378 | 35 | 5.799 | 2630 | 23400 | 104000 | 15300 | 68000 | 5000 |
| 63142RS | 2.7559 | 70 | 5.9055 | 150 | 1.378 | 35 | 5.799 | 2630 | 23400 | 104000 | 15300 | 68000 | 2800 |
| 63142Z | 2.7559 | 70 | 5.9055 | 150 | 1.378 | 35 | 5.799 | 2630 | 23400 | 104000 | 15300 | 68000 | 5000 |

# Double Row Angular Contact Ball Bearings
## 3200 & 3300 SERIES

- Steel cage shown with suffix J
- 25° contact angle
- Available as open, shielded or sealed
- Optional plastic cage without suffix available on request

[1] 3200 plastic cage version with 14mm width




OPEN | 2Z SHIELDED | 2RS SEALED

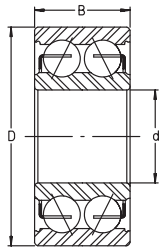
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3200J [1] | 0.394 | 10 | 1.181 | 30 | 0.563 | 14.288 | 0.115 | 0.052 | 1600 | 6950 | 900 | 3800 | 16000 |
| 3200J2RS [1] | 0.394 | 10 | 1.181 | 30 | 0.563 | 14.288 | 0.115 | 0.052 | 1600 | 6950 | 900 | 3800 | 16000 |
| 3200J2Z [1] | 0.394 | 10 | 1.181 | 30 | 0.563 | 14.288 | 0.115 | 0.052 | 1600 | 6950 | 900 | 3800 | 16000 |
| 3201J | 0.472 | 12 | 1.26 | 32 | 0.625 | 15.875 | 0.132 | 0.060 | 2100 | 9150 | 1100 | 5050 | 15000 |
| 3201J2RS | 0.472 | 12 | 1.26 | 32 | 0.625 | 15.875 | 0.132 | 0.060 | 2100 | 9150 | 1100 | 5050 | 15000 |
| 3201J2Z | 0.472 | 12 | 1.26 | 32 | 0.625 | 15.875 | 0.132 | 0.060 | 2100 | 9150 | 1100 | 5050 | 15000 |
| 3202J | 0.591 | 15 | 1.378 | 35 | 0.625 | 15.875 | 0.154 | 0.070 | 2200 | 10000 | 1400 | 6050 | 14000 |
| 3202J2RS | 0.591 | 15 | 1.378 | 35 | 0.625 | 15.875 | 0.154 | 0.070 | 2200 | 10000 | 1400 | 6050 | 14000 |
| 3202J2Z | 0.591 | 15 | 1.378 | 35 | 0.625 | 15.875 | 0.154 | 0.070 | 2200 | 10000 | 1400 | 6050 | 14000 |
| 3203J | 0.669 | 17 | 1.575 | 40 | 0.687 | 17.462 | 0.221 | 0.100 | 2900 | 12800 | 1800 | 8000 | 11000 |
| 3203J2RS | 0.669 | 17 | 1.575 | 40 | 0.687 | 17.462 | 0.221 | 0.100 | 2900 | 12800 | 1800 | 8000 | 11000 |
| 3203J2Z | 0.669 | 17 | 1.575 | 40 | 0.687 | 17.462 | 0.221 | 0.100 | 2900 | 12800 | 1800 | 8000 | 11000 |
| 3204J | 0.787 | 20 | 1.85 | 47 | 0.813 | 20.638 | 0.364 | 0.165 | 4300 | 19000 | 2700 | 12100 | 10000 |
| 3204J2RS | 0.787 | 20 | 1.85 | 47 | 0.813 | 20.638 | 0.397 | 0.180 | 4300 | 19000 | 2700 | 12100 | 10000 |
| 3204J2Z | 0.787 | 20 | 1.85 | 47 | 0.813 | 20.638 | 0.397 | 0.180 | 4300 | 19000 | 2700 | 12100 | 10000 |
| 3205J | 0.984 | 25 | 2.047 | 52 | 0.813 | 20.638 | 0.375 | 0.170 | 4600 | 20600 | 3200 | 14300 | 9000 |
| 3205J2RS | 0.984 | 25 | 2.047 | 52 | 0.813 | 20.638 | 0.375 | 0.170 | 4600 | 20600 | 3200 | 14300 | 9000 |
| 3205J2Z | 0.984 | 25 | 2.047 | 52 | 0.813 | 20.638 | 0.375 | 0.170 | 4600 | 20600 | 3200 | 14300 | 9000 |
| 3206J | 1.181 | 30 | 2.441 | 62 | 0.937 | 23.812 | 0.662 | 0.300 | 5500 | 24400 | 4000 | 17600 | 7100 |
| 3206J2RS | 1.181 | 30 | 2.441 | 62 | 0.937 | 23.812 | 0.662 | 0.300 | 5500 | 24400 | 4000 | 17600 | 7100 |
| 3206J2Z | 1.181 | 30 | 2.441 | 62 | 0.937 | 23.812 | 0.662 | 0.300 | 5500 | 24400 | 4000 | 17600 | 7100 |
| 3207J | 1.378 | 35 | 2.835 | 72 | 1.063 | 26.988 | 0.970 | 0.440 | 7400 | 32900 | 5500 | 24500 | 5600 |
| 3207J2RS | 1.378 | 35 | 2.835 | 72 | 1.063 | 26.988 | 0.970 | 0.440 | 7400 | 32900 | 5500 | 24500 | 5600 |
| 3207J2Z | 1.378 | 35 | 2.835 | 72 | 1.063 | 26.988 | 0.970 | 0.440 | 7400 | 32900 | 5500 | 24500 | 5600 |
| 3208J | 1.575 | 40 | 3.15 | 80 | 1.187 | 30.162 | 1.345 | 0.610 | 9600 | 42500 | 7300 | 32400 | 5000 |
| 3208J2RS | 1.575 | 40 | 3.15 | 80 | 1.187 | 30.162 | 1.345 | 0.610 | 9600 | 42500 | 7300 | 32400 | 5000 |
| 3208J2Z | 1.575 | 40 | 3.15 | 80 | 1.187 | 30.162 | 1.345 | 0.610 | 9600 | 42500 | 7300 | 32400 | 5000 |
| 3209J | 1.772 | 45 | 3.346 | 85 | 1.189 | 30.200 | 1.367 | 0.620 | 9000 | 40000 | 7300 | 32500 | 4800 |
| 3209J2RS | 1.772 | 45 | 3.346 | 85 | 1.189 | 30.200 | 1.455 | 0.660 | 9000 | 40000 | 7300 | 32500 | 4800 |
| 3209J2Z | 1.772 | 45 | 3.346 | 85 | 1.189 | 30.200 | 1.455 | 0.660 | 9000 | 40000 | 7300 | 32500 | 4800 |
| 3210J | 1.969 | 50 | 3.543 | 90 | 1.189 | 30.200 | 1.521 | 0.690 | 9600 | 42500 | 8200 | 36500 | 4000 |
| 3210J2RS | 1.969 | 50 | 3.543 | 90 | 1.189 | 30.200 | 1.610 | 0.730 | 9600 | 42500 | 8200 | 36500 | 4000 |
| 3210J2Z | 1.969 | 50 | 3.543 | 90 | 1.189 | 30.200 | 1.610 | 0.730 | 9600 | 42500 | 8200 | 36500 | 4000 |
| 3211J | 2.165 | 55 | 3.937 | 100 | 1.311 | 33.300 | 2.205 | 1.000 | 14800 | 66000 | 12400 | 55000 | 3800 |
| 3211J2RS | 2.165 | 55 | 3.937 | 100 | 1.311 | 33.300 | 2.205 | 1.000 | 14800 | 66000 | 12400 | 55000 | 3800 |
| 3211J2Z | 2.165 | 55 | 3.937 | 100 | 1.311 | 33.300 | 2.205 | 1.000 | 14800 | 66000 | 12400 | 55000 | 3800 |
| 3212J | 2.362 | 60 | 4.331 | 110 | 1.438 | 36.513 | 2.977 | 1.350 | 16400 | 73000 | 13900 | 62000 | 3300 |
| 3212J2RS | 2.362 | 60 | 4.331 | 110 | 1.438 | 36.513 | 2.977 | 1.350 | 16400 | 73000 | 13900 | 62000 | 3300 |
| 3212J2Z | 2.362 | 60 | 4.331 | 110 | 1.438 | 36.513 | 2.977 | 1.350 | 16400 | 73000 | 13900 | 62000 | 3300 |
| 3302J | 0.591 | 15 | 1.654 | 42 | 0.748 | 19 | 0.232 | 0.105 | 3200 | 14200 | 2000 | 8800 | 10000 |
| 3302J2RS | 0.591 | 15 | 1.654 | 42 | 0.748 | 19 | 0.243 | 0.110 | 3200 | 14200 | 2000 | 8800 | 10000 |
| 3302J2Z | 0.591 | 15 | 1.654 | 42 | 0.748 | 19 | 0.243 | 0.110 | 3200 | 14200 | 2000 | 8800 | 10000 |
| 3303J | 0.669 | 17 | 1.85 | 47 | 0.874 | 22.200 | 0.287 | 0.130 | 4300 | 19000 | 2700 | 12100 | 9500 |
| 3303J2RS | 0.669 | 17 | 1.85 | 47 | 0.874 | 22.200 | 0.309 | 0.140 | 4300 | 19000 | 2700 | 12100 | 9500 |
| 3303J2Z | 0.669 | 17 | 1.85 | 47 | 0.874 | 22.200 | 0.309 | 0.140 | 4300 | 19000 | 2700 | 12100 | 9500 |
| 3304J | 0.787 | 20 | 2.047 | 52 | 0.874 | 22.200 | 0.485 | 0.220 | 4300 | 19100 | 2800 | 12400 | 9000 |

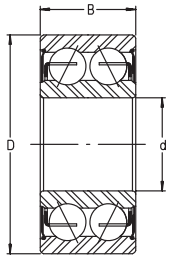
# Double Row Angular Contact Ball Bearings

## 3200 & 3300 SERIES

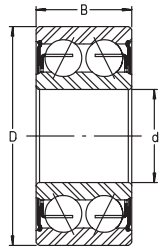
- Steel cage shown with suffix J
- 25° contact angle
- Available as open, shielded or sealed
- Optional plastic cage without suffix available on request



OPEN



2Z SHIELDED



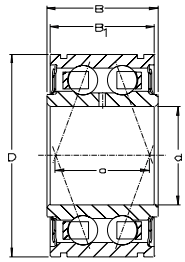
2RS SEALED

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT inch | SHAFT mm | OD inch | OD mm | WIDTH inch | WIDTH mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3304J2RS | 0.787 | 20 | 2.047 | 52 | 0.874 | 22.200 | 0.507 | 0.230 | 4300 | 19100 | 2800 | 12400 | 9000 |
| 3304J2Z | 0.787 | 20 | 2.047 | 52 | 0.874 | 22.200 | 0.507 | 0.230 | 4300 | 19100 | 2800 | 12400 | 9000 |
| 3305J | 0.984 | 25 | 2.441 | 62 | 1 | 25.400 | 0.750 | 0.340 | 6000 | 26500 | 4000 | 17900 | 7900 |
| 3305J2RS | 0.984 | 25 | 2.441 | 62 | 1 | 25.400 | 0.772 | 0.350 | 6000 | 26500 | 4000 | 17900 | 7900 |
| 3305J2Z | 0.984 | 25 | 2.441 | 62 | 1 | 25.400 | 0.772 | 0.350 | 6000 | 26500 | 4000 | 17900 | 7900 |
| 3306J | 1.181 | 30 | 2.835 | 72 | 1.189 | 30.200 | 1.235 | 0.560 | 7400 | 33000 | 5500 | 24300 | 6200 |
| 3306J2RS | 1.181 | 30 | 2.835 | 72 | 1.189 | 30.200 | 1.279 | 0.580 | 7400 | 33000 | 5500 | 24300 | 6200 |
| 3306J2Z | 1.181 | 30 | 2.835 | 72 | 1.189 | 30.200 | 1.279 | 0.580 | 7400 | 33000 | 5500 | 24300 | 6200 |
| 3307J | 1.378 | 35 | 3.15 | 80 | 1.375 | 34.925 | 1.654 | 0.750 | 10000 | 44500 | 7100 | 31500 | 5100 |
| 3307J2RS | 1.378 | 35 | 3.15 | 80 | 1.375 | 34.925 | 1.720 | 0.780 | 10000 | 44500 | 7100 | 31500 | 5100 |
| 3307J2Z | 1.378 | 35 | 3.15 | 80 | 1.375 | 34.925 | 1.720 | 0.780 | 10000 | 44500 | 7100 | 31500 | 5100 |
| 3308J | 1.575 | 40 | 3.543 | 90 | 1.437 | 36.500 | 2.227 | 1.010 | 11100 | 49500 | 8200 | 36500 | 4700 |
| 3308J2RS | 1.575 | 40 | 3.543 | 90 | 1.437 | 36.500 | 2.315 | 1.050 | 11100 | 49500 | 8200 | 36500 | 4700 |
| 3308J2Z | 1.575 | 40 | 3.543 | 90 | 1.437 | 36.500 | 2.315 | 1.050 | 11100 | 49500 | 8200 | 36500 | 4700 |
| 3309J | 1.772 | 45 | 3.937 | 100 | 1.563 | 39.700 | 3.131 | 1.420 | 14800 | 66000 | 11100 | 49500 | 4000 |
| 3309J2RS | 1.772 | 45 | 3.937 | 100 | 1.563 | 39.700 | 3.087 | 1.400 | 14800 | 66000 | 11100 | 49500 | 4000 |
| 3309J2Z | 1.772 | 45 | 3.937 | 100 | 1.563 | 39.700 | 3.131 | 1.420 | 14800 | 66000 | 11100 | 49500 | 4000 |
| 3310J | 1.969 | 50 | 4.331 | 110 | 1.75 | 44.450 | 4.234 | 1.920 | 17800 | 79000 | 13500 | 60000 | 3200 |
| 3310J2RS | 1.969 | 50 | 4.331 | 110 | 1.75 | 44.450 | 4.322 | 1.960 | 17800 | 79000 | 13500 | 60000 | 3200 |
| 3310J2Z | 1.969 | 50 | 4.331 | 110 | 1.75 | 44.450 | 4.322 | 1.960 | 17800 | 79000 | 13500 | 60000 | 3200 |

# Angular Contact Ball Bearings
## G5200 SERIES

- Double row
- Snap ring grooves in outer ring
- Available with seals
- For sheave mounting

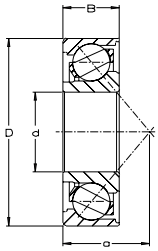



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH OUTER $B_1$ inch | WIDTH OUTER $B_1$ mm | WIDTH INNER $B_1$ inch | WIDTH INNER $B_1$ mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G5205 2RSN | 0.984 | 25 | 2.047 | 52 | 1.102 | 28 | 1.181 | 30 | 0.0594 | 27 | 4850 | 21600 | 3350 | 14900 | 9000 |
| G5206 2RSN | 1.181 | 30 | 2.441 | 62 | 1.260 | 32 | 1.339 | 34 | 0.88 | 400 | 6700 | 30000 | 4800 | 21400 | 7100 |
| G5207 2RSN | 1.378 | 35 | 2.835 | 72 | 1.339 | 34 | 1.417 | 36 | 1.298 | 590 | 8900 | 39500 | 6500 | 29000 | 5600 |
| G5208 2RSN | 1.575 | 40 | 3.150 | 80 | 1.417 | 36 | 1.496 | 38 | 1.54 | 700 | 11200 | 50000 | 8400 | 37500 | 5000 |

# Angular Contact Ball Bearing
## 7000, 7200, & 7300 BE SERIES

- Single row
- Available open, gap or contact seals
- Contact angle 40°
- Plastic retainer

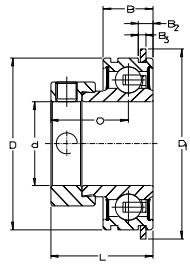



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| INSERT | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | OFFSET a inch | OFFSET a mm | WEIGHT lbs | WEIGHT g | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7004BE2RS | 0.787 | 20 | 1.654 | 42 | 0.472 | 12 | 0.768 | 19.5 | 0.154 | 70 | 3000 | 13300 | 1690 | 7500 | 9800 |
| 7005BE2RS | 0.984 | 25 | 1.850 | 47 | 0.472 | 12 | 0.846 | 21.5 | 0.176 | 80 | 3350 | 14800 | 2090 | 9300 | 8000 |
| 7005BE2Z | 0.984 | 25 | 1.850 | 47 | 0.472 | 12 | 0.846 | 21.5 | 0.176 | 80 | 3350 | 14800 | 2090 | 9300 | 11500 |
| 7006BE2RS | 1.181 | 30 | 2.165 | 55 | 0.512 | 13 | 0.984 | 25 | 0.243 | 110 | 4150 | 18400 | 2750 | 12300 | 7000 |
| 7007BE2RS | 1.378 | 35 | 2.441 | 62 | 0.551 | 14 | 1.102 | 28 | 0.309 | 140 | 5000 | 22400 | 3550 | 15900 | 6000 |
| 7008BE2RS | 1.575 | 40 | 2.677 | 68 | 0.591 | 15 | 1.201 | 30.5 | 0.375 | 170 | 5800 | 26000 | 4200 | 18700 | 5600 |
| 7200BE | 0.394 | 10 | 1.181 | 30 | 0.354 | 9 | 0.535 | 13.6 | 0.066 | 30 | 1750 | 7700 | 850 | 3680 | 22000 |
| 7200BE2RS | 0.394 | 10 | 1.181 | 30 | 0.354 | 9 | 0.535 | 13.6 | 0.066 | 30 | 1750 | 7700 | 850 | 3680 | 15000 |
| 7200BE2Z | 0.394 | 10 | 1.181 | 30 | 0.354 | 9 | 0.535 | 13.6 | 0.066 | 30 | 1750 | 7700 | 850 | 3680 | 22000 |
| 7201BE | 0.472 | 12 | 1.260 | 32 | 0.394 | 10 | 0.591 | 15 | 0.088 | 40 | 1900 | 8400 | 960 | 4260 | 19000 |
| 7201BE2RS | 0.472 | 12 | 1.260 | 32 | 0.394 | 10 | 0.591 | 15 | 0.088 | 40 | 1900 | 8400 | 960 | 4260 | 13500 |
| 7201BE2Z | 0.472 | 12 | 1.260 | 32 | 0.394 | 10 | 0.591 | 15 | 0.088 | 40 | 1900 | 8400 | 960 | 4260 | 19000 |
| 7202BE | 0.591 | 15 | 1.378 | 35 | 0.433 | 11 | 0.642 | 16.3 | 0.110 | 50 | 2300 | 10300 | 1200 | 5290 | 17000 |
| 7202BE2RS | 0.591 | 15 | 1.378 | 35 | 0.433 | 11 | 0.642 | 16.3 | 0.110 | 50 | 2300 | 10300 | 1200 | 5290 | 12000 |
| 7203BE | 0.669 | 17 | 1.575 | 40 | 0.472 | 12 | 0.728 | 18.5 | 0.154 | 70 | 2800 | 12500 | 1500 | 6700 | 15000 |
| 7203BE2RS | 0.669 | 17 | 1.575 | 40 | 0.472 | 12 | 0.728 | 18.5 | 0.154 | 70 | 2800 | 12500 | 1500 | 6700 | 10000 |
| 7204BE | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.846 | 21.5 | 0.221 | 100 | 3900 | 17300 | 2140 | 9500 | 13000 |
| 7204BE2RS | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.846 | 21.5 | 0.221 | 100 | 3900 | 17300 | 2140 | 9500 | 9000 |
| 7204BE2Z | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.846 | 21.5 | 0.221 | 100 | 3900 | 17300 | 2140 | 9500 | 13000 |
| 7205BE | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.945 | 24 | 0.243 | 110 | 4450 | 20200 | 2650 | 11900 | 11000 |
| 7205BE2RS | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.945 | 24 | 0.243 | 110 | 4450 | 20200 | 2650 | 11900 | 7700 |
| 7206BE2RS | 1.181 | 30 | 2.441 | 62 | 0.630 | 16 | 1.083 | 27.5 | 0.375 | 170 | 6200 | 27500 | 3800 | 16800 | 6300 |
| 7207BE | 1.378 | 35 | 2.835 | 72 | 0.669 | 17 | 1.260 | 32 | 0.550 | 250 | 7800 | 34500 | 5300 | 23400 | 8000 |
| 7207BE2RS | 1.378 | 35 | 2.835 | 72 | 0.669 | 17 | 1.260 | 32 | 0.550 | 250 | 7800 | 34500 | 5300 | 23400 | 5600 |
| 7208BE | 1.575 | 40 | 3.150 | 80 | 0.709 | 18 | 1.378 | 35 | 0.772 | 350 | 8700 | 38500 | 6000 | 27000 | 7200 |
| 7208BE2RS | 1.575 | 40 | 3.150 | 80 | 0.709 | 18 | 1.378 | 35 | 0.772 | 350 | 8700 | 38500 | 6000 | 27000 | 5000 |
| 7209BE | 1.772 | 45 | 3.346 | 85 | 0.748 | 19 | 1.457 | 37 | 0.882 | 400 | 10100 | 45000 | 7300 | 32500 | 6700 |
| 7209BE2RS | 1.772 | 45 | 3.346 | 85 | 0.748 | 19 | 1.457 | 37 | 0.882 | 400 | 10100 | 45000 | 7300 | 32500 | 4600 |
| 7210BE2RS | 1.969 | 50 | 3.543 | 90 | 0.787 | 20 | 1.575 | 40 | 0.926 | 420 | 11100 | 49500 | 8100 | 36000 | 4200 |
| 7210BE2Z | 1.969 | 50 | 3.543 | 90 | 0.787 | 20 | 1.575 | 40 | 0.926 | 420 | 11100 | 49500 | 8100 | 36000 | 6000 |
| 7212BE | 2.362 | 60 | 4.331 | 110 | 0.866 | 22 | 1.910 | 48.5 | 1.742 | 790 | 14400 | 64000 | 11700 | 52000 | 5000 |
| 7212BE2RS | 2.362 | 60 | 4.331 | 110 | 0.866 | 22 | 1.910 | 48.5 | 1.742 | 790 | 14400 | 64000 | 11700 | 52000 | 3500 |
| 7214BE2RS | 2.756 | 70 | 4.921 | 125 | 0.945 | 24 | 2.087 | 53 | 2.337 | 1060 | 17000 | 75000 | 14300 | 63300 | 3000 |
| 7302BE | 0.591 | 15 | 1.654 | 42 | 0.512 | 13 | 0.748 | 19 | 0.176 | 80 | 3330 | 14800 | 1760 | 7820 | 14500 |
| 7302BE2RS | 0.591 | 15 | 1.654 | 42 | 0.512 | 13 | 0.748 | 19 | 0.176 | 80 | 3330 | 14800 | 1760 | 7820 | 10000 |
| 7304BE | 0.787 | 20 | 2.047 | 52 | 0.591 | 15 | 0.925 | 23.5 | 0.309 | 140 | 4650 | 20600 | 2600 | 11600 | 12000 |
| 7304BE2RS | 0.787 | 20 | 2.047 | 52 | 0.591 | 15 | 0.925 | 23.5 | 0.309 | 140 | 4650 | 20600 | 2600 | 11600 | 8400 |
| 7305BE2RS | 0.984 | 25 | 2.441 | 62 | 0.669 | 17 | 27 | 27 | 0.397 | 180 | 6500 | 29000 | 3800 | 16800 | 6700 |

# Radial Insert Ball Bearing
## RAE..NPPNR SERIES

- Cylindrical OD
- Eccentric locking collar
- Standard P seals
- 2 snap ring grooves and 1 snap ring




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

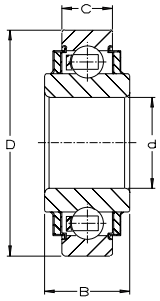
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | $B_2$ inch | $B_2$ mm | $B_3$ inch | $B_3$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RAE 20 NPPNR | - | 0.787 | 20 | 1.85 | 47 | 0.551 | 14 | 0.141 | 3.580 | 0.044 | 1.120 |
| RAE 25 NPPNR | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.141 | 3.580 | 0.044 | 1.120 |
| RAE 30 NPPNR | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 0.196 | 4.980 | 0.067 | 1.700 |
| RAE 35 NPPNR | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 0.196 | 4.980 | 0.067 | 1.700 |

**CONTINUED FROM ABOVE**

| PART NUMBER | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|
| RAE 20 NPPNR | 0.925 | 23.500 | 1.221 | 31 | 0.35 | 0.16 | 2900 | 12800 | 1480 | 6600 |
| RAE 25 NPPNR | 0.925 | 23.500 | 1.221 | 31 | 0.55 | 0.25 | 3150 | 14000 | 1760 | 7800 |
| RAE 30 NPPNR | 1.051 | 26.700 | 1.406 | 35.700 | 0.68 | 0.31 | 4350 | 19500 | 2550 | 11300 |
| RAE 35 NPPNR | 1.158 | 29.400 | 1.532 | 38.900 | 1.06 | 0.48 | 5800 | 25500 | 3450 | 15300 |

# Radial Ball Bearing
## 200 KRR SERIES

- Cylindrical OD
- Inner ring extended both sides
- Standard R seal
- Cylindrical bore per 6200 Series tolerance

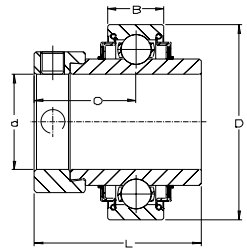



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | OUTER WIDTH C inch | OUTER WIDTH C mm | INNER WIDTH B inch | INNER WIDTH B mm | WGT. lbs | WGT. kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 202 KRR | 0.591 | 15 | 1.378 | 35 | 0.394 | 11 | 0.567 | 14.400 | 0.11 | 0.05 | 1710 | 7600 | 830 | 3700 | 14600 |
| 203 KRR | 0.669 | 17 | 1.575 | 40 | 0.472 | 12 | 0.720 | 18.300 | 0.154 | 0.07 | 2150 | 9600 | 1070 | 4750 | 13000 |
| 204 KRR | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.697 | 17.700 | 0.265 | 0.12 | 2900 | 12800 | 1480 | 6600 | 11000 |
| 205 KRR | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.657 | 16.700 | 0.353 | 0.16 | 3150 | 14000 | 1750 | 7800 | 8800 |
| 206 KRR | 1.811 | 30 | 2.441 | 62 | 0.630 | 16 | 0.772 | 19.600 | 0.529 | 0.24 | 4350 | 19500 | 2550 | 11300 | 7300 |
| 208 KRR | 1.575 | 40 | 3.15 | 80 | 0.709 | 18 | 0.807 | 20.500 | 0.97 | 0.44 | 7300 | 32500 | 4450 | 19800 | 5500 |
| 209 KRR | 1.772 | 45 | 3.346 | 85 | 0.748 | 19 | 1.039 | 26.400 | 1.169 | 0.53 | 7300 | 32500 | 4600 | 20400 | 4900 |
| 210 KRR | 1.969 | 50 | 3.543 | 90 | 0.787 | 20 | 0.945 | 24 | 1.279 | 0.58 | 7900 | 35000 | 5200 | 23200 | 4400 |
| 212 KRR | 2.362 | 60 | 4.331 | 110 | 0.866 | 22 | 1.181 | 30 | 2.426 | 1.1 | 11800 | 52000 | 8100 | 36000 | 3700 |

# Radial Insert Ball Bearing
## E..KLLH SERIES

- Cylindrical OD
- Eccentric locking collar
- Labyrinth seal
- Extended inner ring both sides

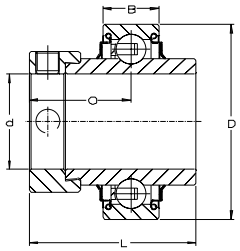



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| INSERT | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E20 KLLH | - | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 1.047 | 26.6 | 1.720 | 43.700 | 0.44 | 0.2 | 2900 | 12800 | 1480 | 6600 |
| E25 KLLH | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 1.059 | 26.9 | 1.748 | 44.400 | 0.55 | 0.25 | 3150 | 14000 | 1760 | 7800 |
| E30 KLLH | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.400 | 0.84 | 0.38 | 4350 | 19500 | 2550 | 11300 |
| E35 KLLH | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.100 | 1.21 | 0.55 | 5800 | 25500 | 3450 | 15300 |
| E40 KLLH | - | 1.575 | 40 | 3.150 | 80 | 0.827 | 21 | 1.374 | 34.9 | 2.217 | 56.300 | 1.63 | 0.74 | 7300 | 32500 | 4450 | 19800 |
| E45 KLLH | | 1.772 | 45 | 3.346 | 85 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.300 | 1.79 | 0.81 | 7300 | 32500 | 4590 | 20400 |
| E50 KLLH | | 1.969 | 50 | 3.543 | 90 | 0.866 | 22 | 1.500 | 38.1 | 2.469 | 62.700 | 2.21 | 1 | 7900 | 35000 | 5200 | 23200 |

# Radial Insert Ball Bearings
## E..KRR SERIES

- Cylindrical OD
- Eccentric locking collar
- Standard R seals

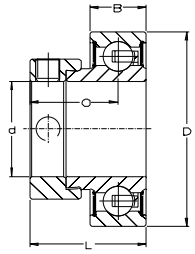



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| INSERT | SHAFT d | SHAFT d | SHAFT d | D | D | B | B | O | O | L | L | WGT. | WGT. | DYN. CAP. | DYN. CAP. | STAT. CAP. | STAT. CAP. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | inch | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | lbs | kg | lbf | N | lbf | N |
| E20 KRR | - | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 1.047 | 26.6 | 1.720 | 43.7 | 0.44 | 0.2 | 2900 | 12800 | 1480 | 6600 |
| E25 KRR | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 1.059 | 26.9 | 1.748 | 44.4 | 0.55 | 0.25 | 3150 | 14000 | 1760 | 7800 |
| E30 KRR | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | 0.84 | 0.38 | 4350 | 19500 | 2550 | 11300 |
| E45 KRR | - | 1.772 | 45 | 3.346 | 85 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.3 | 1.79 | 0.81 | 7300 | 32500 | 4590 | 20400 |
| E50 KRR | - | 1.969 | 50 | 3.543 | 90 | 0.866 | 22 | 1.500 | 38.1 | 2.469 | 62.7 | 2.21 | 1 | 7900 | 35000 | 5200 | 23200 |
| E60 KRR | - | 2.362 | 60 | 4.331 | 110 | 0.945 | 24 | 1.843 | 46.8 | 3.063 | 77.8 | 4.06 | 1.84 | 11800 | 52000 | 8100 | 36000 |

# Radial Insert Ball Bearing
## RAE..NPPFA 106 SERIES

- Cylindrical OD
- Economy P seal
- Noise tested
- Eccentric locking collar

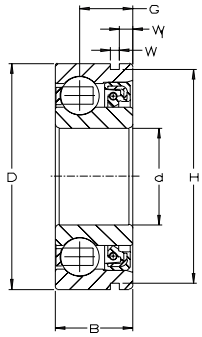



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| INSERT | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAE 20 NPPFA106 | - | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.925 | 23.5 | 1.220 | 31 | 0.35 | 0.16 | 2900 | 12800 | 1480 | 6600 |
| RAE 25 NPPFA106 | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.925 | 23.5 | 1.220 | 31 | 0.42 | 0.19 | 3150 | 14000 | 1760 | 7800 |
| RAE 30 NPPFA106 | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | 0.68 | 0.31 | 4350 | 19500 | 2550 | 11300 |
| RAE 35 NPPFA106 | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 1.157 | 29.4 | 1.531 | 38.9 | 1.06 | 0.48 | 5800 | 25500 | 3450 | 15300 |
| RAE 40 NPPFA106 | - | 1.575 | 40 | 3.150 | 80 | 0.827 | 21 | 1.287 | 32.7 | 1.720 | 43.7 | 1.37 | 0.62 | 7300 | 32500 | 4450 | 19800 |
| RAE 45 NPPFA106 | - | 1.772 | 45 | 3.346 | 85 | 0.866 | 22 | 1.287 | 32.7 | 1.720 | 43.7 | 1.52 | 0.69 | 7300 | 32500 | 4600 | 20400 |
| RAE 50 NPPFA106 | - | 1.969 | 50 | 3.543 | 90 | 0.866 | 22 | 1.287 | 32.7 | 1.720 | 43.7 | 1.70 | 0.77 | 7900 | 35000 | 5200 | 23200 |

# Radial Ball Bearings with Special Seals
## 200 KXN4 SERIES

- Spring-loaded rotary shaft seal
- Seal can withstand a pressure of 0.5 bar
- Snap ring groove to DIN5417




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

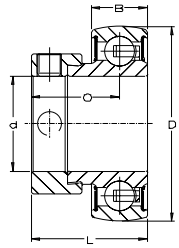
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | B inch | B mm | G inch | G mm | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|
| 202 KXN4 | 0.591 | 15 | 1.378 | 35 | 0.433 | 11 | 0.315 | 8 | 0.081 | 2.06 |
| 203 KXN4 | 0.669 | 17 | 1.575 | 40 | 0.512 | 13 | 0.335 | 8.50 | 0.081 | 2.06 |
| 204 KXN4 | 0.787 | 20 | 1.850 | 47 | 0.591 | 15 | 0.374 | 9.50 | 0.097 | 2.46 |
| 205 KXN4 | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.374 | 9.50 | 0.097 | 2.46 |
| 206 KXN4 | 1.181 | 30 | 2.441 | 62 | 0.669 | 17 | 0.413 | 10.50 | 0.129 | 3.28 |
| 207 KXN4 | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 0.472 | 12 | 0.129 | 3.28 |
| 208 KXN4 | 1.575 | 40 | 3.150 | 80 | 0.787 | 20 | 0.472 | 12 | 0.129 | 3.28 |

**CONTINUED FROM ABOVE**

| PART NUMBER | $W_1$ inch | $W_1$ mm | WGT. inch | WGT. mm | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|
| 202 KXN4 | 0.053 | 1.35 | 0.110 | 0.05 | 1710 | 7600 | 830 | 3700 | 4000 |
| 203 KXN4 | 0.053 | 1.35 | 0.154 | 0.07 | 2150 | 9600 | 1070 | 4750 | 3800 |
| 204 KXN4 | 0.053 | 1.35 | 0.397 | 0.18 | 2900 | 12800 | 1480 | 6600 | 3600 |
| 205 KXN4 | 0.053 | 1.35 | 0.309 | 0.14 | 3150 | 14000 | 1750 | 7800 | 3400 |
| 206 KXN4 | 0.075 | 1.90 | 0.507 | 0.23 | 4350 | 19500 | 2550 | 11300 | 3200 |
| 207 KXN4 | 0.075 | 1.90 | 0.750 | 0.34 | 5800 | 25500 | 3450 | 15300 | 2900 |
| 208 KXN4 | 0.075 | 1.90 | 0.882 | 0.40 | 7300 | 32500 | 4450 | 19800 | 2600 |

# Radial Insert Ball Bearings
## RAE..NPPB SERIES

- Spherical OD
- Eccentric locking collar
- Economy P seals
- Inch and metric setscrews
- Without relubrication holes in outer ring

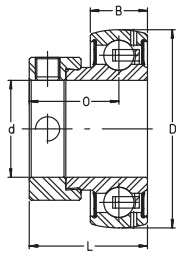



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAE12 NPPB | - | 0.472 | 12 | 1.575 | 40 | 0.472 | 12 | 0.870 | 22.1 | 1.126 | 28.6 | 0.265 | 0.12 | 2150 | 9600 | 1070 | 4750 |
| RAE 15 NPPB | - | 0.591 | 15 | 1.575 | 40 | 0.472 | 12 | 0.870 | 22.1 | 1.126 | 28.6 | 0.265 | 0.12 | 2150 | 9600 | 1070 | 4750 |
| RAE 17 NPPB | - | 0.669 | 17 | 1.575 | 40 | 0.472 | 12 | 0.870 | 22.1 | 1.126 | 28.6 | 0.375 | 0.17 | 2150 | 9600 | 1070 | 4750 |
| RAE 20 NPPB | - | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.925 | 23.5 | 1.221 | 31 | 0.353 | 0.16 | 2900 | 12800 | 1480 | 6600 |
| RAE 25 NPPB | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.925 | 23.5 | 1.221 | 31 | 0.419 | 0.19 | 3150 | 14000 | 1760 | 7800 |
| RAE 30 NPPB | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | 0.684 | 0.31 | 4350 | 19500 | 2550 | 11300 |
| RAE 35 NPPB | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 1.158 | 29.4 | 1.532 | 38.9 | 1.058 | 0.48 | 5800 | 25500 | 3450 | 15300 |
| RAE 40 NPPB | - | 1.575 | 40 | 3.150 | 80 | 0.827 | 21 | 1.287 | 32.7 | 1.721 | 43.7 | 1.367 | 0.62 | 7300 | 32500 | 4450 | 19800 |

# Radial Insert Ball Bearings
## GRAE..NPPB, GRA..NPPB SERIES

- Spherical OD
- Eccentric locking collar
- Economy P seals
- Inch and metric setscrews

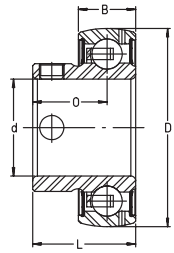



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GRAE12 NPPB | - | 0.472 | 12 | 1.575 | 40 | 0.472 | 12 | 0.870 | 22.1 | 1.126 | 28.6 | 0.265 | 0.12 | 2150 | 9600 | 1070 | 4750 |
| GRA 008 NPPB | 1/2 | 0.500 | 12.700 | 1.575 | 40 | 0.472 | 12 | 0.870 | 22.1 | 1.126 | 28.6 | 0.265 | 0.12 | 2150 | 9600 | 1070 | 4750 |
| GRAE 15 NPPB | - | 0.590 | 15 | 1.575 | 40 | 0.472 | 12 | 0.870 | 22.1 | 1.126 | 28.6 | 0.265 | 0.12 | 2150 | 9600 | 1070 | 4750 |
| GRA 010 NPPB | 5/8 | 0.625 | 15.875 | 1.575 | 40 | 0.472 | 12 | 0.870 | 22.1 | 1.126 | 28.6 | 0.265 | 0.12 | 2150 | 9600 | 1070 | 4750 |
| GRAE 17 NPPB | - | 0.669 | 17 | 1.575 | 40 | 0.472 | 12 | 0.870 | 22.1 | 1.126 | 28.6 | 0.375 | 0.17 | 2150 | 9600 | 1070 | 4750 |
| GRA 012 NPPB | 3/4 | 0.750 | 19.050 | 1.850 | 47 | 0.551 | 14 | 0.925 | 23.5 | 1.221 | 31 | 0.353 | 0.16 | 2900 | 12800 | 1480 | 6600 |
| GRAE 20 NPPB | - | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.925 | 23.5 | 1.221 | 31 | 0.353 | 0.16 | 2900 | 12800 | 1480 | 6600 |
| GRA 014 NPPB | 7/8 | 0.875 | 22.225 | 2.047 | 52 | 0.591 | 15 | 0.925 | 23.5 | 1.221 | 31 | 0.419 | 0.19 | 3150 | 14000 | 1760 | 7800 |
| GRAE 25 NPPB | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.925 | 23.5 | 1.221 | 31 | 0.419 | 0.19 | 3150 | 14000 | 1760 | 7800 |
| GRA 100 NPPB | 1 | 1 | 25.400 | 2.047 | 52 | 0.591 | 15 | 0.925 | 23.5 | 1.221 | 31 | 0.419 | 0.19 | 3150 | 14000 | 1760 | 7800 |
| GRA 101 NPPB | 1-1/16 | 1.062 | 26.988 | 2.441 | 62 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | 0.684 | 0.31 | 4350 | 19500 | 2550 | 11300 |
| GRA 102 NPPB | 1-1/8 | 1.125 | 28.575 | 2.441 | 62 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | 0.684 | 0.31 | 4350 | 19500 | 2550 | 11300 |
| GRAE 30 NPPB | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | 0.684 | 0.31 | 4350 | 19500 | 2550 | 11300 |
| GRA 103 NPPB | 1-3/16 | 1.187 | 30.162 | 2.441 | 62 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | 0.684 | 0.31 | 4350 | 19500 | 2550 | 11300 |
| GRA 104 NPPB-206 | 1-1/4 | 1.250 | 31.750 | 2.441 | 62 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | 0.684 | 0.31 | 4350 | 19500 | 2550 | 11300 |
| GRA 104 NPPB | 1-1/4 | 1.250 | 31.750 | 2.835 | 72 | 0.748 | 19 | 1.158 | 29.4 | 1.532 | 38.9 | 1.058 | 0.48 | 5800 | 25500 | 3450 | 15300 |
| GRA 106 NPPB | 1-3/8 | 1.375 | 34.925 | 2.835 | 72 | 0.748 | 19 | 1.158 | 29.4 | 1.532 | 38.9 | 1.058 | 0.48 | 5800 | 25500 | 3450 | 15300 |
| GRAE 35 NPPB | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 1.158 | 29.4 | 1.532 | 38.9 | 1.058 | 0.48 | 5800 | 25500 | 3450 | 15300 |
| GRA 107 NPPB | 1-7/16 | 1.437 | 36.512 | 2.835 | 72 | 0.748 | 19 | 1.158 | 29.4 | 1.532 | 38.9 | 1.058 | 0.48 | 5800 | 25500 | 3450 | 15300 |
| GRA 108 NPPB | 1-1/2 | 1.500 | 38.100 | 3.150 | 80 | 0.827 | 21 | 1.287 | 32.7 | 1.721 | 43.7 | 1.367 | 0.62 | 7300 | 32500 | 4450 | 19800 |
| GRAE 40 NPPB | - | 1.574 | 40 | 3.150 | 80 | 0.827 | 21 | 1.287 | 32.7 | 1.721 | 43.7 | 1.367 | 0.62 | 7300 | 32500 | 4450 | 19800 |
| GRA 112 NPPB | 1-3/4 | 1.750 | 44.450 | 3.347 | 85 | 0.866 | 22 | 1.287 | 32.7 | 1.721 | 43.7 | 1.521 | 0.69 | 7400 | 32500 | 4600 | 20400 |
| GRAE 45 NPPB | - | 1.771 | 45 | 3.347 | 85 | 0.866 | 22 | 1.287 | 32.7 | 1.721 | 43.7 | 1.521 | 0.69 | 7400 | 32500 | 4600 | 20400 |
| GRA 115 NPPB | 1-15/16 | 1.937 | 49.212 | 3.543 | 90 | 0.866 | 22 | 1.287 | 32.7 | 1.721 | 43.7 | 1.698 | 0.77 | 7900 | 35000 | 5200 | 23200 |
| GRAE 50 NPPB | - | 1.968 | 50 | 3.543 | 90 | 0.866 | 22 | 1.287 | 32.7 | 1.721 | 43.7 | 1.698 | 0.77 | 7900 | 35000 | 5200 | 23200 |
| GRA 200 NPPB | 2 | 2.000 | 50.800 | 3.937 | 100 | 0.984 | 25 | 1.433 | 36.4 | 1.906 | 48.4 | 1.786 | 0.81 | 9800 | 43500 | 6600 | 29000 |
| GRAE55 NPPB | - | 2.165 | 55 | 3.937 | 100 | 0.945 | 24 | 1.433 | 36.4 | 1.906 | 48.4 | 1.786 | 0.81 | 9800 | 43500 | 6600 | 29000 |
| GRA 203 NPPB | 2-3/16 | 2.187 | 55.562 | 3.937 | 100 | 0.984 | 25 | 1.433 | 36.4 | 1.906 | 48.4 | 1.786 | 0.81 | 9800 | 43500 | 6600 | 29000 |
| GRAE 60 NPPB | - | 2.362 | 60 | 4.331 | 110 | 0.945 | 24 | 1.559 | 39.6 | 2.091 | 53.1 | 3.087 | 1.4 | 11800 | 52000 | 8100 | 36000 |
| GRA 207 NPPB | 2-7/16 | 2.437 | 61.912 | 4.331 | 110 | 0.945 | 24 | 1.559 | 39.6 | 2.091 | 53.1 | 3.087 | 1.4 | 11800 | 52000 | 8100 | 36000 |

# Radial Insert Ball Bearings
## GAY..NPPB SERIES

- Spherical OD
- Set screw locking
- Economy P seals
- Inch and metric setscrews

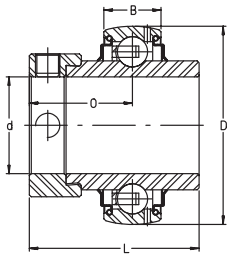



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GAY008 NPPB | 1/2 | 0.500 | 12.7 | 1.575 | 40 | 0.472 | 12 | 0.630 | 16 | 0.866 | 22 | 0.221 | 0.10 | 2150 | 9600 | 1070 | 4750 |
| GAY15 NPPB | 15 | 0.591 | 15 | 1.575 | 40 | 0.472 | 12 | 0.630 | 16 | 0.866 | 22 | 0.198 | 0.09 | 2150 | 9600 | 1070 | 4750 |
| GAY010 NPPB | 5/8 | 0.625 | 15.9 | 1.575 | 40 | 0.472 | 12 | 0.630 | 16 | 0.866 | 22 | 0.198 | 0.09 | 2150 | 9600 | 1070 | 4750 |
| GAY17 NPPB | 17 | 0.669 | 17 | 1.575 | 40 | 0.472 | 12 | 0.630 | 16 | 0.866 | 22 | 0.176 | 0.08 | 2150 | 9600 | 1070 | 4750 |
| GAY012 NPPB | 3/4 | 0.750 | 19.1 | 1.850 | 47 | 0.551 | 14 | 0.709 | 18 | 0.984 | 25 | 0.287 | 0.13 | 2900 | 12800 | 1480 | 6600 |
| GAY20 NPPB | 20 | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.709 | 18 | 0.984 | 25 | 0.287 | 0.13 | 2900 | 12800 | 1480 | 6600 |
| GAY014 NPPB | 7/8 | 0.875 | 22.2 | 2.047 | 52 | 0.591 | 15 | 0.768 | 19.5 | 1.063 | 27 | 0.353 | 0.16 | 3150 | 14000 | 1760 | 7800 |
| GAY25 NPPB | 25 | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.768 | 19.5 | 1.063 | 27 | 0.353 | 0.16 | 3150 | 14000 | 1760 | 7800 |
| GAY100 NPPB | 1 | 1 | 25.4 | 2.047 | 52 | 0.591 | 15 | 0.768 | 19.5 | 1.063 | 27 | 0.353 | 0.16 | 3150 | 14000 | 1760 | 7800 |
| GAY30 NPPB | 30 | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 0.827 | 21 | 1.181 | 30 | 0.551 | 0.25 | 4350 | 19500 | 2550 | 11300 |
| GAY103 NPPB | 1-3/16 | 1.188 | 30.2 | 2.441 | 62 | 0.709 | 18 | 0.827 | 21 | 1.181 | 30 | 0.551 | 0.25 | 4350 | 19500 | 2550 | 11300 |
| GAY104 NPPB | 1-1/4 | 1.250 | 31.8 | 2.835 | 72 | 0.748 | 19 | 1.004 | 25.5 | 1.378 | 35 | 0.860 | 0.39 | 5800 | 25500 | 3450 | 15300 |
| GAY35 NPPB | 35 | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 1.004 | 25.5 | 1.378 | 35 | 0.860 | 0.39 | 5800 | 25500 | 3450 | 15300 |
| GAY107 NPPB | 1-7/16 | 1.438 | 36.5 | 2.835 | 72 | 0.748 | 19 | 1.004 | 25.5 | 1.378 | 35 | 0.860 | 0.39 | 5800 | 25500 | 3450 | 15300 |
| GAY108 NPPB | 1-1/2 | 1.500 | 38.1 | 3.150 | 80 | 0.827 | 21 | 1.142 | 29 | 1.555 | 39.5 | 1.125 | 0.51 | 7300 | 32500 | 4450 | 19800 |
| GAY40 NPPB | 40 | 1.575 | 40 | 3.150 | 80 | 0.827 | 21 | 1.142 | 29 | 1.555 | 39.5 | 1.125 | 0.51 | 7300 | 32500 | 4450 | 19800 |
| GAY112 NPPB | 1-3/4 | 1.750 | 44.5 | 3.347 | 85 | 0.866 | 22 | 1.201 | 30.5 | 1.634 | 41.5 | 1.213 | 0.55 | 7400 | 32500 | 4600 | 20400 |
| GAY45 NPPB | 45 | 1.772 | 45 | 3.347 | 85 | 0.866 | 22 | 1.201 | 30.5 | 1.634 | 41.5 | 1.213 | 0.55 | 7400 | 32500 | 4600 | 20400 |
| GAY115 NPPB | 1-15/16 | 1.938 | 49.2 | 3.543 | 90 | 0.866 | 22 | 1.260 | 32 | 1.693 | 43 | 1.367 | 0.62 | 7900 | 35000 | 5200 | 23200 |
| GAY50 NPPB | 50 | 1.969 | 50 | 3.543 | 90 | 0.866 | 22 | 1.260 | 32 | 1.693 | 43 | 1.367 | 0.62 | 7900 | 35000 | 5200 | 23200 |

# Radial Insert Ball Bearings
## GE..KRRB, G1..KRRB SERIES

- Spherical OD
- Eccentric locking collar
- Standard R seals
- Inch and metric setscrews

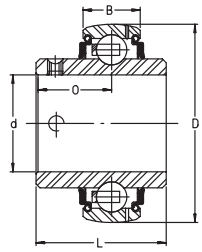



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| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| G1008 KRRB | 1/2 | 0.500 | 12.7 | 1.575 | 40 | 0.472 | 12 | 0.921 | 23.4 | 1.469 | 37.3 | 0.375 | 0.17 | 2150 | 9600 | 1070 | 4750 |
| GE15 KRRB | - | 0.591 | 15 | 1.575 | 40 | 0.472 | 12 | 0.921 | 23.4 | 1.469 | 37.3 | 0.353 | 0.16 | 2150 | 9600 | 1070 | 4750 |
| G1010 KRRB | 5/8 | 0.625 | 15.9 | 1.575 | 40 | 0.472 | 12 | 0.921 | 23.4 | 1.469 | 37.3 | 0.353 | 0.16 | 2150 | 9600 | 1070 | 4750 |
| GE17 KRRB | 3/4 | 0.750 | 19.1 | 1.850 | 47 | 0.551 | 14 | 0.921 | 23.4 | 1.469 | 37.3 | 0.353 | 0.16 | 2150 | 9600 | 1070 | 4750 |
| GE20 KRRB | - | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 1.047 | 26.6 | 1.721 | 43.7 | 0.441 | 0.20 | 2900 | 12800 | 1480 | 6600 |
| G1014 KRRB | 7/8 | 0.875 | 22.2 | 2.047 | 52 | 0.591 | 15 | 1.059 | 26.9 | 1.748 | 44.4 | 0.551 | 0.25 | 3150 | 14000 | 1760 | 7800 |
| G1015 KRRB | 15/16 | 0.938 | 23.8 | 2.047 | 52 | 0.591 | 15 | 1.059 | 26.9 | 1.748 | 44.4 | 0.551 | 0.25 | 3150 | 14000 | 1760 | 7800 |
| GE25 KRRB | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 1.059 | 26.9 | 1.748 | 44.4 | 0.551 | 0.25 | 3150 | 14000 | 1760 | 7800 |
| G1100 KRRB | 1 | 1 | 25.4 | 2.047 | 52 | 0.591 | 15 | 1.059 | 26.9 | 1.748 | 44.4 | 0.551 | 0.25 | 3150 | 14000 | 1760 | 7800 |
| G1102 KRRB | 1-1/8 | 1.125 | 28.6 | 2.441 | 62 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | 0.838 | 0.38 | 4350 | 19500 | 2550 | 11300 |
| GE30 KRRB | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | 0.838 | 0.38 | 4350 | 19500 | 2550 | 11300 |
| G1103 KRRB | 1-3/16 | 1.188 | 30.2 | 2.441 | 62 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | 0.838 | 0.38 | 4350 | 19500 | 2550 | 11300 |
| G1104 KRRB | 1-1/4 | 1.250 | 31.8 | 2.835 | 72 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | 1.213 | 0.55 | 5800 | 25500 | 3450 | 15300 |
| G1106 KRRB | 1-3/8 | 1.375 | 34.9 | 2.835 | 72 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | 1.213 | 0.55 | 5800 | 25500 | 3450 | 15300 |
| GE35 KRRB | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | 1.213 | 0.55 | 5800 | 25500 | 3450 | 15300 |
| G1107 KRRB | 1-7/16 | 1.438 | 36.5 | 2.835 | 72 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | 1.213 | 0.55 | 5800 | 25500 | 3450 | 15300 |
| G1108 KRRB | 1-1/2 | 1.500 | 38.1 | 3.150 | 80 | 0.827 | 21 | 1.374 | 34.9 | 2.217 | 56.3 | 1.632 | 0.74 | 7300 | 32500 | 4450 | 19800 |
| GE40 KRRB | - | 1.575 | 40 | 3.150 | 80 | 0.827 | 21 | 1.374 | 34.9 | 2.217 | 56.3 | 1.632 | 0.74 | 7300 | 32500 | 4450 | 19800 |
| G1110 KRRB | 1-5/8 | 1.625 | 41.3 | 3.347 | 85 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.3 | 1.786 | 0.81 | 7400 | 32500 | 4600 | 20400 |
| G1111 KRRB | 1-11/16 | 1.688 | 42.9 | 3.347 | 85 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.3 | 1.786 | 0.81 | 7400 | 32500 | 4600 | 20400 |
| G1112 KRRB | 1-3/4 | 1.750 | 44.5 | 3.347 | 85 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.3 | 1.786 | 0.81 | 7400 | 32500 | 4600 | 20400 |
| GE45 KRRB | - | 1.772 | 45 | 3.347 | 85 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.3 | 1.786 | 0.81 | 7400 | 32500 | 4600 | 20400 |
| G1115 KRRB | 1-15/16 | 1.938 | 49.2 | 3.543 | 90 | 0.866 | 22 | 1.500 | 38.1 | 2.469 | 62.7 | 2.205 | 1.00 | 7900 | 35000 | 5200 | 23200 |
| GE50 KRRB | - | 1.969 | 50 | 3.543 | 90 | 0.866 | 22 | 1.500 | 38.1 | 2.469 | 62.7 | 2.205 | 1.00 | 7900 | 35000 | 5200 | 23200 |
| G1200 KRRB | 2 | 2 | 50.8 | 3.937 | 100 | 0.984 | 25 | 1.717 | 43.6 | 2.811 | 71.4 | 3.087 | 1.40 | 9800 | 43500 | 6600 | 29000 |
| GE55 KRRB | - | 2.165 | 55 | 3.937 | 100 | 0.984 | 25 | 1.719 | 43.7 | 2.811 | 71.4 | 3.130 | 1.42 | 9800 | 43500 | 6600 | 29000 |
| G1203 KRRB | 2-3/16 | 2.188 | 55.6 | 3.937 | 100 | 0.984 | 25 | 1.717 | 43.6 | 2.811 | 71.4 | 3.131 | 1.42 | 9800 | 43500 | 6600 | 29000 |
| GE60 KRRB | - | 2.362 | 60 | 4.331 | 110 | 0.945 | 24 | 1.843 | 46.8 | 3.063 | 77.8 | 4.057 | 1.84 | 11800 | 52000 | 8100 | 36000 |
| G1207 KRRB | 2-7/16 | 2.438 | 61.9 | 4.331 | 110 | 0.945 | 24 | 1.843 | 46.8 | 3.063 | 77.8 | 4.057 | 1.84 | 11800 | 52000 | 8100 | 36000 |
| GE65 KRRB | - | 2.559 | 65 | 4.921 | 125 | 1.102 | 28 | 1.756 | 44.6 | 2.602 | 66.1 | 5.980 | 2.71 | 13950 | 62000 | 9900 | 44000 |
| GE70 KRRB | - | 2.756 | 70 | 4.921 | 125 | 1.102 | 28 | 1.756 | 44.6 | 2.602 | 66.1 | 5.400 | 2.45 | 13950 | 62000 | 9900 | 44000 |
| GE75 KRRB | - | 2.953 | 75 | 5.118 | 130 | 1.102 | 28 | 1.795 | 45.6 | 2.642 | 67.1 | 5.840 | 2.65 | 13950 | 62000 | 10000 | 44500 |
| GE80 KRRB | - | 3.150 | 80 | 5.512 | 140 | 1.181 | 30 | 1.874 | 47.6 | 2.795 | 71 | 6.500 | 2.95 | 16200 | 72000 | 12150 | 54000 |

# Radial Insert Ball Bearings
## GYE..KRRB, GY1..KRRB SERIES

- Spherical OD
- Eccentric locking collar
- Standard R seals
- Inch and metric setscrews

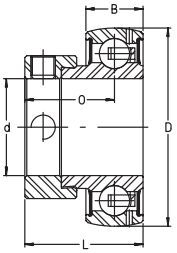



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GY1008 KRRB | 1/2 | 0.500 | 12.7 | 1.575 | 40 | 0.472 | 12 | 0.626 | 15.9 | 1.079 | 27.4 | 0.243 | 0.11 | 2150 | 9600 | 1070 | 4750 |
| GYE15 KRRB | - | 0.591 | 15 | 1.575 | 40 | 0.472 | 12 | 0.626 | 15.9 | 1.079 | 27.4 | 0.243 | 0.11 | 2150 | 9600 | 1070 | 4750 |
| GY1010 KRRB | 5/8 | 0.625 | 15.9 | 1.575 | 40 | 0.472 | 12 | 0.626 | 15.9 | 1.079 | 27.4 | 0.221 | 0.10 | 2150 | 9600 | 1070 | 4750 |
| GYE17 KRRB | - | 0.669 | 17 | 1.575 | 40 | 0.472 | 12 | 0.626 | 15.9 | 1.079 | 27.4 | 0.198 | 0.09 | 2150 | 9600 | 1070 | 4750 |
| GY1012 KRRB | 3/4 | 0.750 | 19.05 | 1.850 | 47 | 0.551 | 14 | 0.721 | 18.3 | 1.221 | 31 | 0.375 | 0.17 | 2900 | 12800 | 1480 | 6600 |
| GYE20 KRRB | - | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.721 | 18.3 | 1.221 | 31 | 0.375 | 0.17 | 2900 | 12800 | 1480 | 6600 |
| GY1014 KRRB | 7/8 | 0.875 | 22.22 | 2.047 | 52 | 0.591 | 15 | 0.780 | 19.8 | 1.343 | 34.1 | 0.441 | 0.20 | 3150 | 14000 | 1760 | 7800 |
| GY1015 KRRB | 15/16 | 0.938 | 23.8 | 2.047 | 52 | 0.591 | 15 | 0.780 | 19.8 | 1.343 | 34.1 | 0.419 | 0.19 | 3150 | 14000 | 1760 | 7800 |
| GYE25 KRRB | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.780 | 19.8 | 1.343 | 34.1 | 0.441 | 0.20 | 3150 | 14000 | 1760 | 7800 |
| GY1100 KRRB | 1 | 1 | 25.4 | 2.047 | 52 | 0.591 | 15 | 0.780 | 19.8 | 1.343 | 34.1 | 0.441 | 0.20 | 3150 | 14000 | 1760 | 7800 |
| GY1102 KRRB | 1-1/8 | 1.125 | 28.6 | 2.441 | 62 | 0.709 | 18 | 0.874 | 22.2 | 1.500 | 38.1 | 0.728 | 0.33 | 4350 | 19500 | 2550 | 11300 |
| GYE30 KRRB | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 0.874 | 22.2 | 1.500 | 38.1 | 0.728 | 0.33 | 4350 | 19500 | 2550 | 11300 |
| GY1103 KRRB | 1-3/16 | 1.188 | 30.2 | 2.441 | 62 | 0.709 | 18 | 0.874 | 22.2 | 1.500 | 38.1 | 0.728 | 0.33 | 4350 | 19500 | 2550 | 11300 |
| GY1104 KRRB-206 | 1-1/4 | 1.250 | 31.8 | 2.441 | 62 | 0.709 | 18 | 0.874 | 22.2 | 1.500 | 38.1 | 0.728 | 0.33 | 4350 | 19500 | 2550 | 11300 |
| GY1104 KRRB | 1-1/4 | 1.250 | 31.8 | 2.835 | 72 | 0.748 | 19 | 1.000 | 25.4 | 1.689 | 42.9 | 1.080 | 0.49 | 5800 | 25500 | 3450 | 15300 |
| GY1106 KRRB | 1-3/8 | 1.375 | 34.9 | 2.835 | 72 | 0.748 | 19 | 1.000 | 25.4 | 1.689 | 42.9 | 1.080 | 0.49 | 5800 | 25500 | 3450 | 15300 |
| GYE35 KRRB | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 1.000 | 25.4 | 1.689 | 42.9 | 1.080 | 0.49 | 5800 | 25500 | 3450 | 15300 |
| GY1107 KRRB | 1-7/16 | 1.438 | 36.5 | 2.835 | 72 | 0.748 | 19 | 1.000 | 25.4 | 1.689 | 42.9 | 0.948 | 0.43 | 5800 | 25500 | 3450 | 15300 |
| GY1108 KRRB | 1-1/2 | 1.500 | 38.1 | 3.150 | 80 | 0.827 | 21 | 1.189 | 30.2 | 1.937 | 49.2 | 1.433 | 0.65 | 7300 | 32500 | 4450 | 19800 |
| GYE40 KRRB | - | 1.575 | 40 | 3.150 | 80 | 0.827 | 21 | 1.189 | 30.2 | 1.937 | 49.2 | 1.433 | 0.65 | 7300 | 32500 | 4450 | 19800 |
| GY1110 KRRB | 1-5/8 | 1.625 | 41.3 | 3.347 | 85 | 0.866 | 22 | 1.189 | 30.2 | 1.937 | 49.2 | 1.610 | 0.73 | 7400 | 32500 | 4600 | 20400 |
| GY1111 KRRB | 1-11/16 | 1.688 | 42.9 | 3.347 | 85 | 0.866 | 22 | 1.189 | 30.2 | 1.937 | 49.2 | 1.610 | 0.73 | 7400 | 32500 | 4600 | 20400 |
| GY1112 KRRB | 1-3/4 | 1.750 | 44.5 | 3.347 | 85 | 0.866 | 22 | 1.189 | 30.2 | 1.937 | 49.2 | 1.544 | 0.70 | 7400 | 32500 | 4600 | 20400 |
| GYE45 KRRB | - | 1.772 | 45 | 3.347 | 85 | 0.866 | 22 | 1.189 | 30.2 | 1.937 | 49.2 | 1.544 | 0.70 | 7400 | 32500 | 4600 | 20400 |
| GY1115 KRRB | 1-15/16 | 1.938 | 49.2 | 3.543 | 90 | 0.866 | 22 | 1.284 | 32.6 | 2.032 | 51.6 | 1.764 | 0.80 | 7900 | 35000 | 5200 | 23200 |
| GYE50 KRRB | - | 1.969 | 50 | 3.543 | 90 | 0.866 | 22 | 1.284 | 32.6 | 2.032 | 51.6 | 1.764 | 0.80 | 7900 | 35000 | 5200 | 23200 |
| GY1200 KRRB | 2 | 2 | 50.8 | 3.937 | 100 | 0.984 | 25 | 1.315 | 33.4 | 2.189 | 55.6 | 2.426 | 1.10 | 9800 | 43500 | 6600 | 29000 |
| GYE55 KRRB | - | 2.165 | 55 | 3.937 | 100 | 0.984 | 25 | 1.315 | 33.4 | 2.189 | 55.6 | 2.430 | 1.10 | 9800 | 43500 | 6600 | 29000 |
| GY1203 KRRB | 2-3/16 | 2.188 | 55.6 | 3.937 | 100 | 0.984 | 25 | 1.315 | 33.4 | 2.189 | 55.6 | 2.426 | 1.10 | 9800 | 43500 | 6600 | 29000 |
| GYE60 KRRB | - | 2.362 | 60 | 4.331 | 110 | 0.945 | 24 | 1.563 | 39.7 | 2.563 | 65.1 | 2.911 | 1.32 | 11800 | 52000 | 8100 | 36000 |
| GY1207 KRRB | 2-7/16 | 2.438 | 61.9 | 4.331 | 110 | 0.945 | 24 | 1.563 | 39.7 | 2.563 | 65.1 | 2.911 | 1.32 | 11800 | 52000 | 8100 | 36000 |
| GYE65 KRRB | - | 2.559 | 65 | 4.921 | 125 | 1.102 | 28 | 1.748 | 44.4 | 2.937 | 74.6 | 4.960 | 2.25 | 13950 | 62000 | 9900 | 44000 |
| GYE70 KRRB | - | 2.756 | 70 | 4.921 | 125 | 1.102 | 28 | 1.748 | 44.4 | 2.937 | 74.6 | 4.300 | 1.95 | 13950 | 62000 | 9900 | 44000 |
| GYE75 KRRB | - | 2.953 | 75 | 5.118 | 130 | 1.102 | 28 | 1.752 | 44.5 | 3.063 | 77.8 | 4.830 | 2.19 | 13950 | 62000 | 10000 | 44500 |
| GYE80 KRRB | - | 3.150 | 80 | 5.512 | 140 | 1.181 | 30 | 1.941 | 49.3 | 3.252 | 82.6 | 6.460 | 2.93 | 16200 | 72000 | 12150 | 54000 |
| GYE90 KRRB | - | 3.543 | 90 | 6.299 | 160 | 1.260 | 32 | 2.217 | 56.3 | 3.780 | 96 | 9.260 | 4.20 | 21600 | 96000 | 16200 | 72000 |

# Radial Insert Ball Bearings
## RALE SERIES

- Metric series
- Economy P seals
- Eccentric locking collar
- Light series - based on 6000 Series

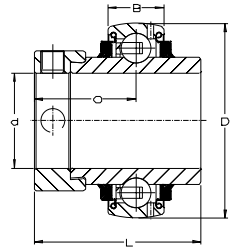



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| INSERT | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RALE20NPPB | - | 0.787 | 20 | 1.654 | 42 | 0.472 | 12 | 0.732 | 18.6 | 0.969 | 24.6 | 0.198 | 0.09 | 2100 | 9400 | 1125 | 5000 |
| RALE25NPPB | - | 0.984 | 25 | 1.850 | 47 | 0.472 | 12 | 0.764 | 19.4 | 1.000 | 25.4 | 0.265 | 0.12 | 2275 | 10100 | 1325 | 5900 |
| RALE30NPPB | - | 1.181 | 30 | 2.165 | 55 | 0.512 | 13 | 0.787 | 20 | 1.043 | 26.5 | 0.375 | 0.17 | 2970 | 13200 | 1870 | 8300 |

# Radial Insert Ball Bearing
## GE..KPPB-3 SERIES

- Tri-ply lip seal
- Lower speeds due to higher friction
- For heavily contaminated conditions
- Spherical OD
- Eccentric locking collar

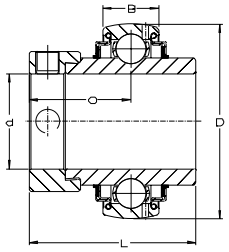



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| INSERT | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GE20KPPB-3 | - | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 1.047 | 26.6 | 1.720 | 43.7 | 0.44 | 0.2 | 2900 | 12800 | 1480 | 6600 |
| GE25KPPB-3 | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 1.059 | 26.9 | 1.748 | 44.4 | 0.55 | 0.25 | 3150 | 14000 | 1760 | 7800 |
| GE30KPPB-3 | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | 0.86 | 0.39 | 4350 | 19500 | 2550 | 11300 |
| GE35KPPB-3 | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | 1.23 | 0.56 | 5800 | 25500 | 3450 | 15300 |
| GE40KPPB-3 | - | 1.575 | 40 | 3.150 | 80 | 0.827 | 21 | 1.374 | 34.9 | 2.217 | 56.3 | 1.70 | 0.77 | 7300 | 32500 | 4450 | 19800 |
| GE45KPPB-3 | | 1.772 | 45 | 3.346 | 85 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.3 | 1.90 | 0.86 | 7300 | 32500 | 4450 | 20400 |
| GE50KPPB-3 | - | 1.969 | 50 | 3.543 | 90 | 0.866 | 22 | 1.500 | 38.1 | 2.469 | 62.7 | 2.34 | 1.06 | 7900 | 35000 | 5200 | 23200 |
| GE55KPPB-3 | - | 2.165 | 55 | 3.937 | 100 | 0.984 | 25 | 1.719 | 43.7 | 2.811 | 71.4 | 3.13 | 1.42 | 9800 | 43500 | 6600 | 29000 |
| GE60KPPB-3 | - | 2.362 | 60 | 4.331 | 110 | 0.945 | 24 | 1.843 | 46.8 | 3.063 | 77.8 | 4.06 | 1.84 | 11800 | 52000 | 8100 | 36000 |
| GE65KPPB-3 | - | 2.559 | 65 | 4.921 | 125 | 1.102 | 28 | 1.756 | 44.6 | 2.602 | 66.1 | 5.98 | 2.71 | 13950 | 62000 | 9900 | 44000 |
| GE70KPPB-3 | - | 2.756 | 70 | 4.921 | 125 | 1.102 | 28 | 1.756 | 44.6 | 2.602 | 66.1 | 5.40 | 2.45 | 13950 | 62000 | 9900 | 44000 |
| GE75KPPB-3 | - | 2.953 | 75 | 5.118 | 130 | 1.102 | 28 | 1.795 | 45.6 | 2.642 | 67.1 | 5.84 | 2.65 | 13950 | 62000 | 10000 | 44500 |
| GE80KPPB-3 | - | 3.150 | 80 | 5.512 | 140 | 1.181 | 30 | 1.874 | 47.6 | 2.795 | 71 | 6.50 | 2.95 | 16200 | 72000 | 12150 | 54000 |

# Radial Insert Ball Bearing
## GE..KLLHB SERIES

- Non-contact labyrinth seal
- Steel cage
- Suitable for higher temperatures
- Eccentric locking collar
- Spherical OD

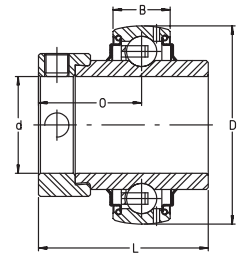



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| INSERT | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GE20 KLLHB | - | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 1.047 | 26.6 | 1.721 | 43.7 | 0.441 | 0.20 | 2900 | 12800 | 1480 | 6600 |
| GE25 KLLHB | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 1.059 | 26.9 | 1.748 | 44.4 | 0.551 | 0.25 | 3150 | 14000 | 1760 | 7800 |
| GE30 KLLHB | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | 0.838 | 0.38 | 4350 | 19500 | 2550 | 11300 |
| GE35 KLLHB | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | 1.213 | 0.55 | 5800 | 25500 | 3450 | 15300 |
| GE40 KLLHB | - | 1.575 | 40 | 3.150 | 80 | 0.827 | 21 | 1.374 | 34.9 | 2.217 | 56.3 | 1.632 | 0.74 | 7300 | 32500 | 4450 | 19800 |
| GE45 KLLHB | - | 1.772 | 45 | 3.347 | 85 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.3 | 1.786 | 0.81 | 7400 | 32500 | 4600 | 20400 |
| GE50 KLLHB | - | 1.969 | 50 | 3.543 | 90 | 0.866 | 22 | 1.500 | 38.1 | 2.469 | 62.7 | 2.205 | 1.00 | 7900 | 35000 | 5200 | 23200 |

# Radial Insert Ball Bearing
## GNE..KRRB SERIES

- Spherical OD
- Eccentric locking collar
- Standard R seal
- Heavy series insert - based on 6300 Series

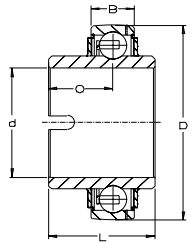



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| INSERT | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GNE30 KRRB | - | 1.181 | 30 | 2.835 | 72 | 0.787 | 20 | 1.280 | 32.500 | 1.969 | 50 | 1.19 | 0.54 | 6700 | 29500 | 3750 | 16700 |
| GNE35 KRRB | - | 1.378 | 35 | 3.150 | 80 | 0.866 | 22 | 1.311 | 33.300 | 2.031 | 51.600 | 1.61 | 0.73 | 8200 | 36500 | 4700 | 20900 |
| GNE40 KRRB | - | 1.575 | 40 | 3.543 | 90 | 0.906 | 23 | 1.441 | 36.600 | 2.150 | 54.600 | 2.40 | 1.09 | 10000 | 44500 | 5800 | 26000 |
| GNE50 KRRB | - | 1.969 | 50 | 4.331 | 110 | 1.142 | 29 | 1.657 | 42.100 | 2.626 | 66.700 | 4.12 | 1.87 | 13900 | 62000 | 8500 | 38000 |
| GNE60 KRRB | - | 2.362 | 60 | 5.118 | 130 | 1.299 | 33 | 1.787 | 45.400 | 2.693 | 68.400 | 6.55 | 2.97 | 18400 | 82000 | 11700 | 52000 |
| GNE70 KRRB | - | 2.756 | 70 | 5.906 | 150 | 1.457 | 37 | 1.945 | 49.400 | 2.969 | 75.400 | 9.64 | 4.37 | 23400 | 104000 | 15300 | 68000 |

# Radial Insert Ball Bearing
## GLE..KRRB SERIES

- Non-locating bearing to compensate for shaft expansion
- Used with mating drive pin radially located in shaft
- C4 radial internal clearance
- Spherical OD

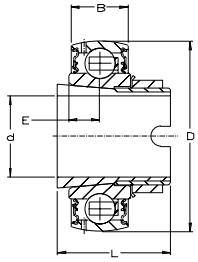



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| INSERT | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | O inch | O mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GLE30 KRRB | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 0.866 | 22 | 1.437 | 36.5 | 0.66 | 0.30 | 4350 | 19500 | 2550 | 11300 |
| GLE35 KRRB | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 0.866 | 22 | 1.484 | 37.7 | 0.95 | 0.43 | 5800 | 25500 | 3450 | 15300 |
| GLE40 KRRB | - | 1.575 | 40 | 3.150 | 80 | 0.827 | 21 | 1.063 | 27 | 1.689 | 42.9 | 1.28 | 0.58 | 7300 | 32500 | 4450 | 19800 |
| GLE45 KRRB | - | 1.772 | 45 | 3.347 | 85 | 0.866 | 22 | 1.004 | 25.5 | 1.689 | 42.9 | 1.46 | 0.66 | 7400 | 32500 | 4600 | 20400 |
| GLE50 KRRB | - | 1.969 | 50 | 3.543 | 90 | 0.866 | 22 | 1.189 | 30.2 | 1.937 | 49.2 | 1.68 | 0.76 | 7900 | 35000 | 5200 | 23200 |
| GLE60 KRRB | - | 2.362 | 60 | 4.331 | 110 | 0.945 | 24 | 1.469 | 37.3 | 2.437 | 61.9 | 3.35 | 1.52 | 11800 | 52000 | 8100 | 36000 |
| GLE70 KRRB | - | 2.756 | 70 | 4.921 | 125 | 1.102 | 28 | 1.622 | 41.2 | 2.685 | 68.2 | 4.96 | 2.25 | 13950 | 62000 | 9900 | 44000 |

# Radial Insert Ball Bearing
## GSH..RRB SERIES

- Integral adapter sleeve
- Shaft connected concentrically by interference fit
- Quieter running than normal radial insert ball bearings
- Narrow inner ring with standard R seal

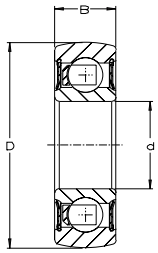



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| INSERT | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | E inch | E mm | L inch | L mm | WGT. lbs | WGT. kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GSH 20 RRB | - | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.295 | 7.5 | 1.102 | 28 | 0.31 | 0.14 | 2850 | 12700 | 1480 | 6600 |
| GSH 25 RRB | - | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.295 | 7.5 | 1.102 | 28 | 0.38 | 0.17 | 3050 | 13600 | 1760 | 7800 |
| GSH 30 RRB | - | 1.181 | 30 | 2.441 | 62 | 0.709 | 18 | 0.354 | 9 | 1.260 | 32 | 0.60 | 0.27 | 4250 | 18900 | 2550 | 11300 |
| GSH 35 RRB | - | 1.378 | 35 | 2.835 | 72 | 0.748 | 19 | 0.374 | 9.5 | 1.339 | 34 | 0.95 | 0.43 | 5600 | 24900 | 3450 | 15300 |
| GSH 40 RRB | - | 1.575 | 40 | 3.150 | 80 | 0.827 | 21 | 0.433 | 11 | 1.496 | 38 | 1.19 | 0.54 | 6600 | 29500 | 4450 | 19800 |
| GSH 50 RRB | - | 1.969 | 50 | 3.543 | 90 | 0.866 | 22 | 0.433 | 11 | 1.575 | 40 | 1.41 | 0.64 | 7500 | 33000 | 1690 | 22900 |

# Radial Insert Ball Bearing
## 200 NPPB SERIES

- Spherical OD
- Standard P seal
- Cylindrical bore and tolerances of 6200 Series

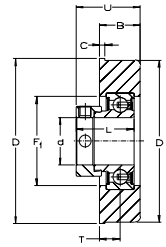



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 201 NPPB | 0.472 | 12 | 1.260 | 32 | 0.394 | 10 | 0.088 | 0.04 | 1530 | 6800 | 690 | 3050 | 18300 |
| 203 NPPB | 0.669 | 17 | 1.575 | 40 | 0.472 | 12 | 0.132 | 0.06 | 2150 | 9600 | 1070 | 4750 | 13000 |
| 204 NPPB | 0.787 | 20 | 1.850 | 47 | 0.551 | 14 | 0.243 | 0.11 | 2900 | 12800 | 1480 | 6600 | 11000 |
| 205 NPPB | 0.984 | 25 | 2.047 | 52 | 0.591 | 15 | 0.287 | 0.13 | 3150 | 14000 | 1750 | 7800 | 8800 |
| 206 NPPB | 1.811 | 30 | 2.441 | 62 | 0.630 | 16 | 0.441 | 0.2 | 4350 | 19500 | 2550 | 11300 | 7300 |
| 208 NPPB | 1.575 | 40 | 3.150 | 80 | 0.709 | 18 | 0.816 | 0.37 | 7300 | 32500 | 4450 | 19800 | 5500 |
| 209 NPPB | 1.772 | 45 | 3.346 | 85 | 0.748 | 19 | 0.904 | 0.41 | 7300 | 32500 | 4600 | 20400 | 4900 |
| 210 NPPB | 1.969 | 50 | 3.543 | 90 | 0.787 | 20 | 1.014 | 0.46 | 7900 | 35000 | 5200 | 23200 | 4400 |

# Radial Insert Ball Bearing
## CR-B SERIES

- Rubber interliner
- Eccentric locking collar
- Economy P seal




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

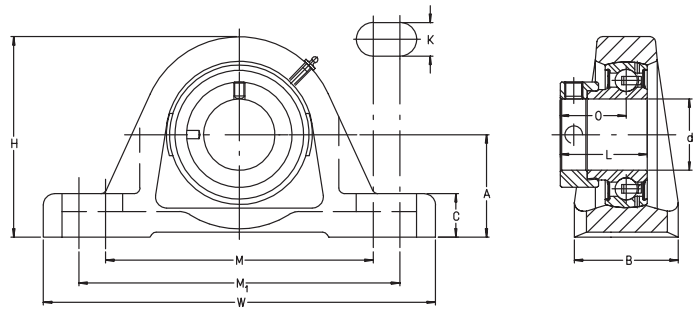
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | $D_1$ inch | $D_1$ mm | B inch | B mm | C inch | C mm | F inch | F mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CR-B20/76 | - | 0.787 | 20 | 3.051 | 77.500 | 3.150 | 80 | 1.000 | 25.400 | 0.197 | 5 | 1.575 | 40 | 0.66 | 0.3 |
| CR-B20/83 | - | 0.787 | 20 | 3.291 | 83.600 | 3.441 | 87.400 | 1.000 | 25.400 | 0.189 | 4.800 | 1.575 | 40 | 0.66 | 0.3 |
| CR-B25/70 | - | 0.984 | 25 | 2.815 | 71.500 | 2.992 | 76 | 0.984 | 25 | 0.197 | 5 | 1.811 | 46 | 0.71 | 0.32 |
| CR-B25/83 | - | 0.984 | 25 | 3.291 | 83.600 | 3.441 | 87.400 | 1.000 | 25.400 | 0.189 | 4.800 | 1.811 | 46 | 0.71 | 0.32 |
| CR-B30/83 | - | 1.181 | 30 | 3.291 | 83.600 | 3.441 | 87.400 | 1.102 | 28 | 0.189 | 4.800 | 2.205 | 56 | 0.90 | 0.41 |
| CR-B35/110 | - | 1.378 | 35 | 4.421 | 112.300 | 4.724 | 120 | 1.181 | 30 | 0.197 | 5 | 2.520 | 64 | 1.23 | 0.56 |

**CONTINUED FROM ABOVE**

| PART NUMBER | L inch | L mm | T inch | T mm | U inch | U mm | INSERT | RUBBER INTERLINER | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | RUBBER INTERLINER CAPACITY Cg lbf | RUBBER INTERLINER CAPACITY Cg N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CR-B20/76 | 1.220 | 31 | 0.492 | 12.500 | 1.417 | 36 | RAE 20 NPP | CR 47/76 | 2870 | 12800 | 1480 | 6600 | 170 | 750 |
| CR-B20/83 | 1.220 | 31 | 0.500 | 12.700 | 1.425 | 36.200 | RAE 20 NPP | CR 47/83 | 2870 | 12800 | 1480 | 6600 | 170 | 750 |
| CR-B25/70 | 1.220 | 31 | 0.492 | 12.500 | 1.417 | 36 | RAE 25 NPP | CR 52/70 | 3150 | 14000 | 1750 | 7800 | 225 | 1000 |
| CR-B25/83 | 1.220 | 31 | 0.500 | 12.700 | 1.425 | 36.200 | RAE 25 NPP | CR 52/83 | 3150 | 14000 | 1750 | 7800 | 225 | 1000 |
| CR-B30/83 | 1.406 | 35.700 | 0.551 | 14 | 1.602 | 40.700 | RAE 30 NPP | CR 62/83 | 4380 | 19500 | 2540 | 11300 | 315 | 1400 |
| CR-B35/110 | 1.531 | 38.900 | 0.591 | 15 | 1.748 | 44.400 | RAE 35 NPP | CR 72/110 | 5730 | 25500 | 3440 | 15300 | 335 | 1500 |

# Pillow Block Housing
## PASE SERIES

- Standard center height
- Eccentric locking collar
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

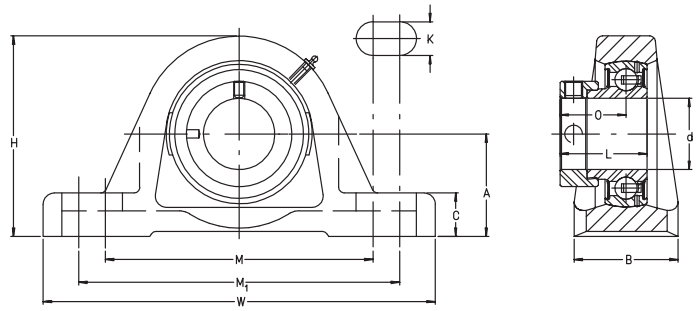



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PASE 12 | - | 0.472 | 12 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PASE 1/2 | 1/2 | 0.500 | 12.7 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PASE 15 | - | 0.591 | 15 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PASE 5/8 | 5/8 | 0.625 | 15.875 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PASE 17 | - | 0.669 | 17 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PASE 3/4 | 3/4 | 0.750 | 19.05 | 1.311 | 33.3 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| PASE 20 | - | 0.787 | 20 | 1.311 | 33.3 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| PASE 7/8 | 7/8 | 0.875 | 22.225 | 1.438 | 36.513 | 3.751 | 95.275 | 4.500 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PASE 25 | - | 0.984 | 25 | 1.438 | 36.513 | 3.751 | 95.275 | 4.500 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PASE 1 | 1 | 1 | 25.4 | 1.438 | 36.513 | 3.751 | 95.275 | 4.500 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PASE 1-1/16 | 1-1/16 | 1.063 | 26.988 | 1.689 | 42.9 | 4.252 | 108 | 5 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| PASE 1-1/8 | 1-1/8 | 1.125 | 28.575 | 1.689 | 42.9 | 4.252 | 108 | 5 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| PASE 30 | - | 1.181 | 30 | 1.689 | 42.9 | 4.252 | 108 | 5 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| PASE 1-3/16 | 1-3/16 | 1.188 | 30.162 | 1.689 | 42.9 | 4.252 | 108 | 5 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| PASE 1-1/4-206 | 1-1/4-206 | 1.250 | 31.75 | 1.689 | 42.9 | 4.252 | 108 | 5 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| PASE 1-1/4 | 1-1/4 | 1.250 | 31.75 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PASE 1-3/8 | 1-3/8 | 1.375 | 34.925 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PASE 35 | - | 1.378 | 35 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.417 | 163 |
| PASE 1-7/16 | 1-7/16 | 1.438 | 36.512 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PASE 1-1/2 | 1-1/2 | 1.500 | 38.1 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| PASE 40 | - | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| PASE 1-3/4 | 1-3/4 | 1.750 | 44.45 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.4 | 7.677 | 195 |
| PASE 45 | - | 1.772 | 45 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.531 | 13.5 | 5.292 | 2.4 | 7.559 | 192 |
| PASE 1-15/16 | 1-15/16 | 1.938 | 49.212 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.972 | 202.5 |
| PASE 50 | - | 1.969 | 50 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.874 | 200 |
| PASE 2 | 2 | 2 | 50.8 | 2.500 | 63.5 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.82 | 4 | 8.858 | 225 |
| PASE 55 | - | 2.165 | 55 | 2.500 | 63.5 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.82 | 4 | 8.858 | 225 |
| PASE 2-3/16 | 2-3/16 | 2.188 | 55.562 | 2.500 | 63.5 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.82 | 4 | 8.858 | 225 |
| PASE 60 | - | 2.362 | 60 | 2.752 | 69.9 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.6 | 9.449 | 240 |
| PASE 2-7/16 | 2-7/16 | 2.438 | 61.912 | 2.752 | 69.9 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.6 | 9.646 | 245 |

# Pillow Block Housing
## PASE SERIES

- Standard center height
- Eccentric locking collar
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

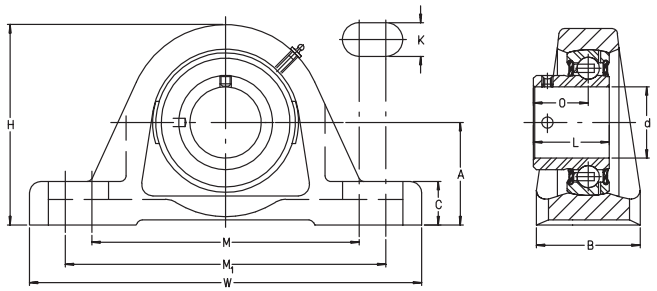



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.870 | 22.1 | 1.126 | 28.6 | GRAE12 NPPB | ASE 03 | 2150 | 9600 | 1070 | 4750 | PASE12 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.870 | 22.1 | 1.126 | 28.6 | GRA 008 NPPB | ASE 03 | 2150 | 9600 | 1070 | 4750 | PASE 1/2 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.870 | 22.1 | 1.126 | 28.6 | GRAE 15 NPPB | ASE 03 | 2150 | 9600 | 1070 | 4750 | PASE 15 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.870 | 22.1 | 1.126 | 28.6 | GRA 010 NPPB | ASE 03 | 2150 | 9600 | 1070 | 4750 | PASE 5/8 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.870 | 22.1 | 1.126 | 28.6 | GRAE 17 NPPB | ASE 03 | 2150 | 9600 | 1070 | 4750 | PASE 17 |
| 1.260 | 32 | 2.532 | 64.3 | 0.571 | 14.5 | 0.925 | 23.5 | 1.221 | 31 | GRA 012 NPPB | ASE 04 | 2900 | 12800 | 1480 | 6600 | PASE 3/4 |
| 1.260 | 32 | 2.520 | 64 | 0.571 | 14.5 | 0.925 | 23.5 | 1.221 | 31 | GRAE 20 NPPB | ASE 04 | 2900 | 12800 | 1480 | 6600 | PASE 20 |
| 1.457 | 37 | 2.813 | 71.438 | 0.610 | 15.5 | 0.925 | 23.5 | 1.221 | 31 | GRA 014 NPPB | ASE 05 | 3150 | 14000 | 1760 | 7800 | PASE 7/8 |
| 1.457 | 37 | 2.813 | 71.438 | 0.610 | 15.5 | 0.925 | 23.5 | 1.221 | 31 | GRAE 25 NPPB | ASE 05 | 3150 | 14000 | 1760 | 7800 | PASE 25 |
| 1.457 | 37 | 2.813 | 71.438 | 0.610 | 15.5 | 0.925 | 23.5 | 1.221 | 31 | GRA 100 NPPB | ASE 05 | 3150 | 14000 | 1760 | 7800 | PASE 1 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | GRA 101 NPPB | ASE 06 | 4350 | 19500 | 2550 | 11300 | PASE 1-1/16 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | GRA 102 NPPB | ASE 06 | 4350 | 19500 | 2550 | 11300 | PASE 1-1/8 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | GRAE 30 NPPB | ASE 06 | 4350 | 19500 | 2550 | 11300 | PASE 30 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | GRA 103 NPPB | ASE 06 | 4350 | 19500 | 2550 | 11300 | PASE 1-3/16 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 1.051 | 26.7 | 1.406 | 35.7 | GRA 104 NPPB-206 | ASE 06 | 4350 | 19500 | 2550 | 11300 | PASE 1-1/4-206 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1.158 | 29.4 | 1.532 | 38.9 | GRA 104 NPPB | ASE 07 | 5800 | 25500 | 3450 | 15300 | PASE 1-1/4 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1.158 | 29.4 | 1.532 | 38.9 | GRA 106 NPPB | ASE 07 | 5800 | 25500 | 3450 | 15300 | PASE 1-3/8 |
| 1.772 | 45 | 3.661 | 93 | 0.748 | 19 | 1.158 | 29.4 | 1.532 | 38.9 | GRAE 35 NPPB | ASE 07 | 5800 | 25500 | 3450 | 15300 | PASE 35 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1.158 | 29.4 | 1.532 | 38.9 | GRA 107 NPPB | ASE 07 | 5800 | 25500 | 3450 | 15300 | PASE 1-7/16 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.287 | 32.7 | 1.721 | 43.7 | GRA 108 NPPB | ASE 08 | 7300 | 32500 | 4450 | 19800 | PASE 1-1/2 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.287 | 32.7 | 1.721 | 43.7 | GRAE 40 NPPB | ASE 08 | 7300 | 32500 | 4450 | 19800 | PASE 40 |
| 2.039 | 51.8 | 4.213 | 107 | 0.866 | 22 | 1.287 | 32.7 | 1.721 | 43.7 | GRA 112 NPPB | ASE 09 | 7400 | 32500 | 4600 | 20400 | PASE 1-3/4 |
| 1.890 | 48 | 4.213 | 107 | 0.846 | 21.5 | 1.287 | 32.7 | 1.721 | 43.7 | GRAE 45 NPPB | ASE 09 | 7400 | 32500 | 4600 | 20400 | PASE 45 |
| 2.244 | 57 | 4.606 | 117 | 0.866 | 22 | 1.287 | 32.7 | 1.721 | 43.7 | GRA 115 NPPB | ASE 10 | 7900 | 35000 | 5200 | 23200 | PASE 1-15/16 |
| 2.126 | 54 | 4.528 | 115 | 0.846 | 21.5 | 1.287 | 32.7 | 1.721 | 43.7 | GRAE 50 NPPB | ASE 10 | 7900 | 35000 | 5200 | 23200 | PASE 50 |
| 2.461 | 62.5 | 4.980 | 126.5 | 0.984 | 25 | 1.433 | 36.4 | 1.906 | 48.4 | GRA 200 NPPB | ASE 11 | 9800 | 43500 | 6600 | 29000 | PASE 2 |
| 2.461 | 62.5 | 4.980 | 126.5 | 0.984 | 25 | 1.433 | 36.4 | 1.906 | 48.4 | GRAE 55 NPPB | ASE 11 | 9800 | 43500 | 6600 | 29000 | PASE 55 |
| 2.461 | 62.5 | 4.980 | 126.5 | 0.984 | 25 | 1.433 | 36.4 | 1.906 | 48.4 | GRA 203 NPPB | ASE 11 | 9800 | 43500 | 6600 | 29000 | PASE 2-3/16 |
| 2.362 | 60 | 5.512 | 140 | 0.984 | 25 | 1.559 | 39.6 | 2.091 | 53.1 | GRAE 60 NPPB | ASE 12 | 11800 | 52000 | 8100 | 36000 | PASE 60 |
| 2.559 | 65 | 5.512 | 140 | 1.102 | 28 | 1.559 | 39.6 | 2.091 | 53.1 | GRA 207 NPPB | ASE 12 | 11800 | 52000 | 8100 | 36000 | PASE 2-7/16 |

# Pillow Block Housing
## PASEY SERIES

- Standard center height
- Set screw shaft locking
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

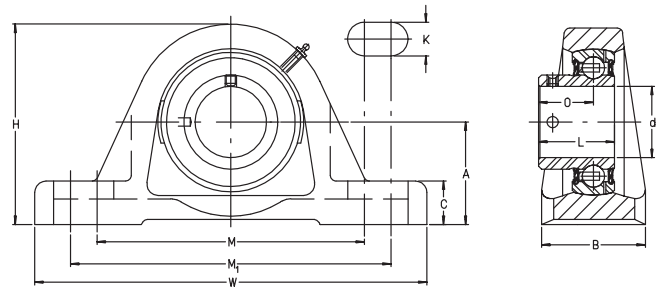



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| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PASEY 12 | - | 0.472 | 12 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PASEY 1/2 | 1/2 | 0.500 | 12.7 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PASEY 15 | - | 0.591 | 15 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PASEY 5/8 | 5/8 | 0.625 | 15.875 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PASEY 17 | - | 0.669 | 17 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PASEY 3/4 | 3/4 | 0.750 | 19.05 | 1.311 | 33.3 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| PASEY 20 | - | 0.787 | 20 | 1.311 | 33.3 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| PASEY 7/8 | 7/8 | 0.875 | 22.225 | 1.438 | 36.512 | 3.751 | 95.275 | 4.500 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PASEY 25 | - | 0.984 | 25 | 1.438 | 36.512 | 3.751 | 95.275 | 4.500 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PASEY 1 | 1 | 1 | 25.4 | 1.438 | 36.512 | 3.751 | 95.275 | 4.500 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PASEY 30 | - | 1.181 | 30 | 1.689 | 42.9 | 4.252 | 108 | 5 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| PASEY 1-3/16 | 1-3/16 | 1.188 | 30.162 | 1.689 | 42.9 | 4.252 | 108 | 5 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| PASEY 1-1/4 | 1-1/4 | 1.250 | 31.75 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PASEY 35 | - | 1.378 | 35 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.417 | 163 |
| PASEY 1-7/16 | 1-7/16 | 1.438 | 36.512 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PASEY 1-1/2 | 1-1/2 | 1.500 | 38.1 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| PASEY 40 | - | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| PASEY 1-3/4 | 1-3/4 | 1.750 | 44.45 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.4 | 7.677 | 195 |
| PASEY 45 | - | 1.772 | 45 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.531 | 13.5 | 5.292 | 2.4 | 7.559 | 192 |
| PASEY 1-15/16 | 1-15/16 | 1.938 | 49.212 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.972 | 202.5 |
| PASEY 50 | - | 1.969 | 50 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.874 | 200 |

# Pillow Block Housing
## PASEY SERIES

- Standard center height
- Set screw shaft locking
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

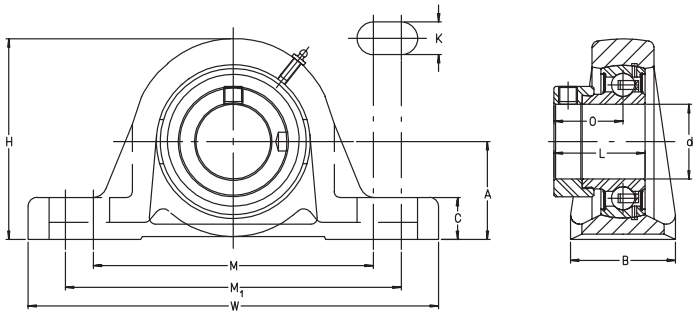



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For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.630 | 16 | 0.866 | 22 | GAY12 NPPB | ASE 03 | 2150 | 9600 | 1070 | 4750 | PASEY 12 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.630 | 16 | 0.866 | 22 | GAY008 NPPB | ASE 03 | 2150 | 9600 | 1070 | 4750 | PASEY 1/2 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.630 | 16 | 0.866 | 22 | GAY15 NPPB | ASE 03 | 2150 | 9600 | 1070 | 4750 | PASEY 15 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.630 | 16 | 0.866 | 22 | GAY010 NPPB | ASE 03 | 2150 | 9600 | 1070 | 4750 | PASEY 5/8 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.630 | 16 | 0.866 | 22 | GAY17 NPPB | ASE 03 | 2150 | 9600 | 1070 | 4750 | PASEY 17 |
| 1.260 | 32 | 2.532 | 64.3 | 0.571 | 14.5 | 0.709 | 18 | 0.984 | 25 | GAY012 NPPB | ASE 04 | 2900 | 12800 | 1480 | 6600 | PASEY 3/4 |
| 1.260 | 32 | 2.520 | 64 | 0.571 | 14.5 | 0.709 | 18 | 0.984 | 25 | GAY20 NPPB | ASE 04 | 2900 | 12800 | 1480 | 6600 | PASEY 20 |
| 1.457 | 37 | 2.813 | 71.438 | 0.610 | 15.5 | 0.768 | 19.5 | 1.063 | 27 | GAY014 NPPB | ASE 05 | 3150 | 14000 | 1760 | 7800 | PASEY 7/8 |
| 1.457 | 37 | 2.813 | 71.438 | 0.610 | 15.5 | 0.768 | 19.5 | 1.063 | 27 | GAY25 NPPB | ASE 05 | 3150 | 14000 | 1760 | 7800 | PASEY 25 |
| 1.457 | 37 | 2.813 | 71.438 | 0.610 | 15.5 | 0.768 | 19.5 | 1.063 | 27 | GAY100 NPPB | ASE 05 | 3150 | 14000 | 1760 | 7800 | PASEY 1 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 0.827 | 21 | 1.181 | 30 | GAY30 NPPB | ASE 06 | 4350 | 19500 | 2550 | 11300 | PASEY 30 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 0.827 | 21 | 1.181 | 30 | GAY103 NPPB | ASE 06 | 4350 | 19500 | 2550 | 11300 | PASEY 1-3/16 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1.004 | 25.5 | 1.378 | 35 | GAY104 NPPB | ASE 07 | 5800 | 25500 | 3450 | 15300 | PASEY 1-1/4 |
| 1.772 | 45 | 3.661 | 93 | 0.748 | 19 | 1.004 | 25.5 | 1.378 | 35 | GAY35 NPPB | ASE 07 | 5800 | 25500 | 3450 | 15300 | PASEY 35 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1.004 | 25.5 | 1.378 | 35 | GAY107 NPPB | ASE 07 | 5800 | 25500 | 3450 | 15300 | PASEY 1-7/16 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.142 | 29 | 1.555 | 39.5 | GAY108 NPPB | ASE 08 | 7300 | 32500 | 4450 | 19800 | PASEY 1-1/2 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.142 | 29 | 1.555 | 39.5 | GAY40 NPPB | ASE 08 | 7300 | 32500 | 4450 | 19800 | PASEY 40 |
| 2.039 | 51.8 | 4.213 | 107 | 0.866 | 22 | 1.201 | 30.5 | 1.634 | 41.5 | GAY112 NPPB | ASE 09 | 7400 | 32500 | 4600 | 20400 | PASEY 1-3/4 |
| 1.890 | 48 | 4.213 | 107 | 0.846 | 21.5 | 1.201 | 30.5 | 1.634 | 41.5 | GAY45 NPPB | ASE 09 | 7400 | 32500 | 4600 | 20400 | PASEY 45 |
| 2.244 | 57 | 4.606 | 117 | 0.866 | 22 | 1.260 | 32 | 1.693 | 43 | GAY115 NPPB | ASE 10 | 7900 | 35000 | 5200 | 23200 | PASEY 1-15/16 |
| 2.126 | 54 | 4.528 | 115 | 0.984 | 25 | 1.260 | 32 | 1.693 | 43 | GAY50 NPPB | ASE 10 | 7900 | 35000 | 5200 | 23200 | PASEY 50 |

# Pillow Block Housing
## PAK SERIES

- Low center height
- Eccentric locking collar
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

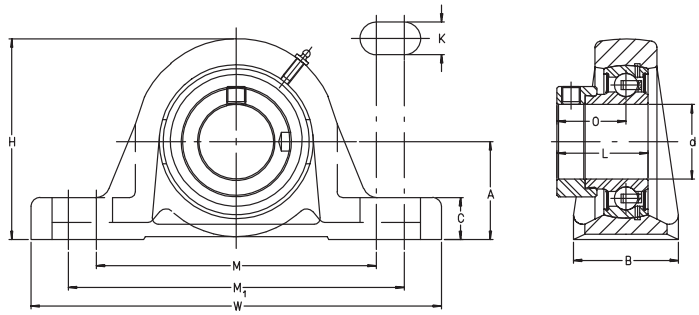



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PAK 12 | - | 0.472 | 12 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PAK 1/2 | 1/2 | 0.500 | 12.7 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PAK 15 | - | 0.591 | 15 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PAK 5/8 | 5/8 | 0.625 | 15.875 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PAK 17 | - | 0.669 | 17 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PAK 3/4 | 3/4 | 0.75 | 19.05 | 1.252 | 31.8 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| PAK 20 | - | 0.787 | 20 | 1.252 | 31.8 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| PAK 7/8 | 7/8 | 0.875 | 22.225 | 1.313 | 33.338 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PAK 25 | - | 0.984 | 25 | 1.313 | 33.338 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PAK 1 | 1 | 1 | 25.4 | 1.313 | 33.338 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PAK 1-1/16 | 1-1/16 | 1.063 | 26.988 | 1.563 | 39.688 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.3 | 6.188 | 157.16 |
| PAK 1-1/8 | 1-1/8 | 1.125 | 28.575 | 1.563 | 39.688 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.3 | 6.188 | 157.16 |
| PAK 30 | - | 1.181 | 30 | 1.563 | 39.688 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.3 | 6.188 | 157.16 |
| PAK 1-3/16 | 1-3/16 | 1.188 | 30.162 | 1.563 | 39.688 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.3 | 6.188 | 157.16 |
| PAK 1-1/4-206 | 1-1/4-206 | 1.250 | 31.75 | 1.563 | 39.688 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.3 | 6.188 | 157.16 |
| PAK 1-1/4 | 1-1/4 | 1.250 | 31.75 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PAK 1-3/8 | 1-3/8 | 1.375 | 34.925 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PAK 35 | - | 1.378 | 35 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PAK 1-7/16 | 1-7/16 | 1.438 | 36.512 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PAK 1-1/2 | 1-1/2 | 1.500 | 38.1 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| PAK 40 | - | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| PAK 1-3/4 | 1-3/4 | 1.750 | 44.45 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.4 | 7.677 | 195 |
| PAK 45 | - | 1.772 | 45 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.4 | 7.677 | 195 |
| PAK 1-15/16 | 1-15/16 | 1.938 | 49.212 | 2.189 | 55.6 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.972 | 202.5 |
| PAK 50 | - | 1.969 | 50 | 2.189 | 55.6 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.972 | 202.5 |
| PAK 2 | 2 | 2 | 50.8 | 2.437 | 61.9 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.82 | 4 | 8.858 | 225 |
| PAK 55 | - | 2.165 | 55 | 2.437 | 61.9 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.82 | 4 | 8.858 | 225 |
| PAK 2-3/16 | 2-3/16 | 2.188 | 55.562 | 2.437 | 61.9 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.82 | 4 | 8.858 | 225 |
| PAK 60 | - | 2.362 | 60 | 2.689 | 68.3 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.6 | 9.646 | 245 |
| PAK 2-7/16 | 2-7/16 | 2.438 | 61.912 | 2.689 | 68.3 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.6 | 9.646 | 245 |

# Pillow Block Housing
## PAK SERIES

- Low center height
- Eccentric locking collar
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

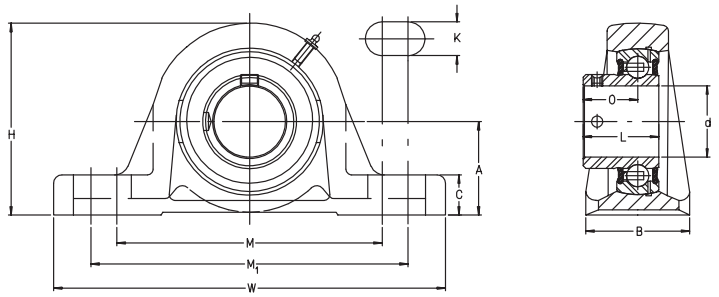



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.870 | 22.1 | 1.126 | 28.6 | GRAE 12 NPPB | AK03 | 2150 | 9600 | 1070 | 4750 | PAK 12 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.870 | 22.1 | 1.126 | 28.6 | GRA008 NPPB | AK03 | 2150 | 9600 | 1070 | 4750 | PAK 1/2 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.870 | 22.1 | 1.126 | 28.6 | GRAE15 NPPB | AK03 | 2150 | 9600 | 1070 | 4750 | PAK 15 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.870 | 22.1 | 1.126 | 28.6 | GRA010 NPPB | AK03 | 2150 | 9600 | 1070 | 4750 | PAK 5/8 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.870 | 22.1 | 1.126 | 28.6 | GRAE17 NPPB | AK03 | 2150 | 9600 | 1070 | 4750 | PAK 17 |
| 1.260 | 32 | 2.472 | 62.8 | 0.512 | 13 | 0.925 | 23.5 | 1.221 | 31 | GRA012 NPPB | AK04 | 2900 | 12800 | 1480 | 6600 | PAK 3/4 |
| 1.260 | 32 | 2.472 | 62.8 | 0.512 | 13 | 0.925 | 23.5 | 1.221 | 31 | GRAE20 NPPB | AK04 | 2900 | 12800 | 1480 | 6600 | PAK 20 |
| 1.457 | 37 | 2.688 | 68.263 | 0.563 | 14.288 | 0.925 | 23.5 | 1.221 | 31 | GRA014 NPPB | AK05 | 3150 | 14000 | 1760 | 7800 | PAK 7/8 |
| 1.457 | 37 | 2.688 | 68.263 | 0.563 | 14.288 | 0.925 | 23.5 | 1.221 | 31 | GRAE25 NPPB | AK05 | 3150 | 14000 | 1760 | 7800 | PAK 25 |
| 1.457 | 37 | 2.688 | 68.263 | 0.563 | 14.288 | 0.925 | 23.5 | 1.221 | 31 | GRA100 NPPB | AK05 | 3150 | 14000 | 1760 | 7800 | PAK 1 |
| 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 1.051 | 26.7 | 1.406 | 35.7 | GRA101 NPPB | AK06 | 4350 | 19500 | 2550 | 11300 | PAK 1-1/16 |
| 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 1.051 | 26.7 | 1.406 | 35.7 | GRA102 NPPB | AK06 | 4350 | 19500 | 2550 | 11300 | PAK 1-1/8 |
| 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 1.051 | 26.7 | 1.406 | 35.7 | GRAE30 NPPB | AK06 | 4350 | 19500 | 2550 | 11300 | PAK 30 |
| 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 1.051 | 26.7 | 1.406 | 35.7 | GRA103 NPPB | AK06 | 4350 | 19500 | 2550 | 11300 | PAK 1-3/16 |
| 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 1.051 | 26.7 | 1.406 | 35.7 | GRA104 NPPB | AK06 | 4350 | 19500 | 2550 | 11300 | PAK 1-1/4-206 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.158 | 29.4 | 1.532 | 38.9 | GRA104 NPPB | AK07 | 5800 | 25500 | 3450 | 15300 | PAK 1-1/4 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.158 | 29.4 | 1.532 | 38.9 | GRA106 NPPB | AK07 | 5800 | 25500 | 3450 | 15300 | PAK 1-3/8 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.158 | 29.4 | 1.532 | 38.9 | GRAE35 NPPB | AK07 | 5800 | 25500 | 3450 | 15300 | PAK 35 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.158 | 29.4 | 1.532 | 38.9 | GRA107 NPPB | AK07 | 5800 | 25500 | 3450 | 15300 | PAK 1-7/16 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.287 | 32.7 | 1.721 | 43.7 | GRA108 NPPB | AK08 | 7300 | 32500 | 4450 | 19800 | PAK 1-1/2 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.287 | 32.7 | 1.721 | 43.7 | GRAE40 NPPB | AK08 | 7300 | 32500 | 4450 | 19800 | PAK 40 |
| 2.028 | 51.5 | 4.15 | 105.4 | 0.803 | 20.4 | 1.287 | 32.7 | 1.721 | 43.7 | GRA112 NPPB | AK09 | 7400 | 32500 | 4600 | 20400 | PAK 1-3/4 |
| 2.028 | 51.5 | 4.15 | 105.4 | 0.803 | 20.4 | 1.287 | 32.7 | 1.721 | 43.7 | GRAE45 NPPB | AK09 | 7400 | 32500 | 4600 | 20400 | PAK 45 |
| 2.244 | 57 | 4.543 | 115.4 | 0.803 | 20.4 | 1.287 | 32.7 | 1.721 | 43.7 | GRA115 NPPB | AK10 | 7900 | 35000 | 5200 | 23200 | PAK 1-15/16 |
| 2.244 | 57 | 4.543 | 115.4 | 0.803 | 20.4 | 1.287 | 32.7 | 1.721 | 43.7 | GRAE50 NPPB | AK10 | 7900 | 35000 | 5200 | 23200 | PAK 50 |
| 2.461 | 62.5 | 4.917 | 124.9 | 0.921 | 23.4 | 1.433 | 36.4 | 1.906 | 48.4 | GRA200 NPPB | AK11 | 9800 | 43500 | 6600 | 29000 | PAK 2 |
| 2.461 | 62.5 | 4.917 | 124.9 | 0.921 | 23.4 | 1.433 | 36.4 | 1.906 | 48.4 | GRAE 55 NPPB | AK11 | 9800 | 43500 | 6600 | 29000 | PAK 55 |
| 2.461 | 62.5 | 4.917 | 124.9 | 0.921 | 23.4 | 1.433 | 36.4 | 1.906 | 48.4 | GRA203 NPPB | AK11 | 9800 | 43500 | 6600 | 29000 | PAK 2-3/16 |
| 2.559 | 65 | 5.449 | 138.4 | 1.039 | 26.4 | 1.559 | 39.6 | 2.091 | 53.1 | GRAE60 NPPB | AK12 | 11800 | 52000 | 8100 | 36000 | PAK 60 |
| 2.559 | 65 | 5.449 | 138.4 | 1.039 | 26.4 | 1.559 | 39.6 | 2.091 | 53.1 | GRA207 NPPB | AK12 | 11800 | 52000 | 8100 | 36000 | PAK 2-7/16 |

# Pillow Block Housing
## PAKY SERIES

- Low center height
- Set screw shaft locking
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

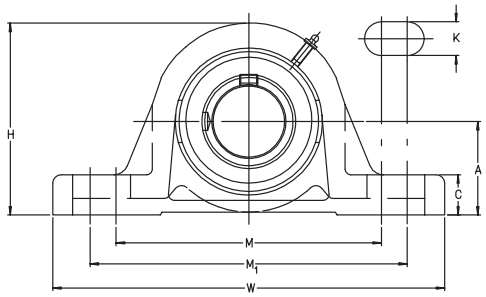


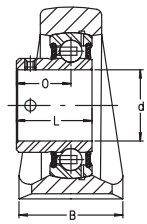

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| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PAKY 12 | - | 0.472 | 12 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PAKY 1/2 | 1/2 | 0.500 | 12.7 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PAKY 15 | - | 0.591 | 15 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PAKY 5/8 | 5/8 | 0.625 | 15.875 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PAKY 17 | - | 0.669 | 17 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| PAKY 3/4 | 3/4 | 0.750 | 19.05 | 1.252 | 31.8 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| PAKY 20 | - | 0.787 | 20 | 1.252 | 31.8 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| PAKY 7/8 | 7/8 | 0.875 | 22.225 | 1.313 | 33.338 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PAKY 25 | - | 0.984 | 25 | 1.313 | 33.338 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PAKY 1 | 1 | 1 | 25.4 | 1.313 | 33.338 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| PAKY 30 | - | 1.181 | 30 | 1.563 | 39.688 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.3 | 6.188 | 157.16 |
| PAKY 1-3/16 | 1-3/16 | 1.188 | 30.162 | 1.563 | 39.688 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.3 | 6.188 | 157.16 |
| PAKY 1-1/4 | 1-1/4 | 1.250 | 31.75 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PAKY 35 | - | 1.378 | 35 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PAKY 1-7/16 | 1-7/16 | 1.438 | 36.512 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| PAKY 1-1/2 | 1-1/2 | 1.500 | 38.1 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| PAKY 40 | - | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| PAKY 1-3/4 | 1-3/4 | 1.750 | 44.45 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.4 | 7.677 | 195 |
| PAKY 45 | - | 1.772 | 45 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.4 | 7.677 | 195 |
| PAKY 1-15/16 | 1-15/16 | 1.938 | 49.212 | 2.189 | 55.6 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.972 | 202.5 |
| PAKY 50 | - | 1.969 | 50 | 2.189 | 55.6 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.972 | 202.5 |

# Pillow Block Housing
## PAKY SERIES

- Low center height
- Set screw shaft locking
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards



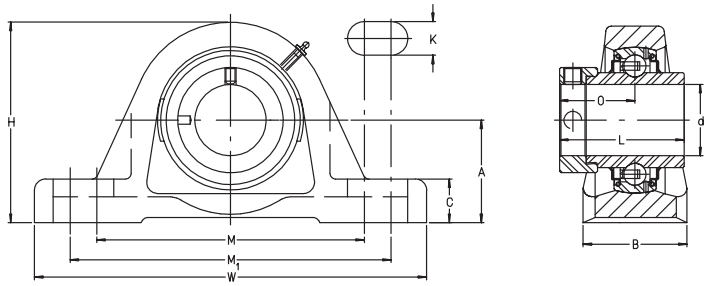




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| B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.63 | 16 | 0.866 | 22 | GAY 12 NPPB | AK 03 | 2150 | 9600 | 1070 | 4750 | PAKY 12 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.63 | 16 | 0.866 | 22 | GAY008 NPPB | AK 03 | 2150 | 9600 | 1070 | 4750 | PAKY 1/2 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.63 | 16 | 0.866 | 22 | GAY15 NPPB | AK 03 | 2150 | 9600 | 1070 | 4750 | PAKY 15 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.63 | 16 | 0.866 | 22 | GAY010 NPPB | AK 03 | 2150 | 9600 | 1070 | 4750 | PAKY 5/8 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.63 | 16 | 0.866 | 22 | GAY17 NPPB | AK 03 | 2150 | 9600 | 1070 | 4750 | PAKY 17 |
| 1.260 | 32 | 2.472 | 62.8 | 0.512 | 13 | 0.709 | 18 | 0.984 | 25 | GAY012 NPPB | AK 04 | 2900 | 12800 | 1480 | 6600 | PAKY 3/4 |
| 1.260 | 32 | 2.472 | 62.8 | 0.512 | 13 | 0.709 | 18 | 0.984 | 25 | GAY20 NPPB | AK 04 | 2900 | 12800 | 1480 | 6600 | PAKY 20 |
| 1.457 | 37 | 2.688 | 68.262 | 0.563 | 14.287 | 0.768 | 19.5 | 1.063 | 27 | GAY014 NPPB | AK 05 | 3150 | 14000 | 1760 | 7800 | PAKY 7/8 |
| 1.457 | 37 | 2.688 | 68.262 | 0.563 | 14.287 | 0.768 | 19.5 | 1.063 | 27 | GAY25 NPPB | AK 05 | 3150 | 14000 | 1760 | 7800 | PAKY 25 |
| 1.457 | 37 | 2.688 | 68.262 | 0.563 | 14.287 | 0.768 | 19.5 | 1.063 | 27 | GAY100 NPPB | AK 05 | 3150 | 14000 | 1760 | 7800 | PAKY 1 |
| 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 0.827 | 21 | 1.181 | 30 | GAY30 NPPB | AK 06 | 4350 | 19500 | 2550 | 11300 | PAKY 30 |
| 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 0.827 | 21 | 1.181 | 30 | GAY103 NPPB | AK 06 | 4350 | 19500 | 2550 | 11300 | PAKY 1-3/16 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.004 | 25.5 | 1.378 | 35 | GAY104 NPPB | AK 07 | 5800 | 25500 | 3450 | 15300 | PAKY 1-1/4 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.004 | 25.5 | 1.378 | 35 | GAY35 NPPB | AK 07 | 5800 | 25500 | 3450 | 15300 | PAKY 35 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.004 | 25.5 | 1.378 | 35 | GAY107 NPPB | AK 07 | 5800 | 25500 | 3450 | 15300 | PAKY 1-7/16 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.142 | 29 | 1.555 | 39.5 | GAY108 NPPB | AK 08 | 7300 | 32500 | 4450 | 19800 | PAKY 1-1/2 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.142 | 29 | 1.555 | 39.5 | GAY40 NPPB | AK 08 | 7300 | 32500 | 4450 | 19800 | PAKY 40 |
| 2.028 | 51.5 | 4.150 | 105.4 | 0.803 | 20.4 | 1.201 | 30.5 | 1.634 | 41.5 | GAY112 NPPB | AK 09 | 7400 | 32500 | 4600 | 20400 | PAKY 1-3/4 |
| 2.028 | 51.5 | 4.150 | 105.4 | 0.803 | 20.4 | 1.201 | 30.5 | 1.634 | 41.5 | GAY45 NPPB | AK 09 | 7400 | 32500 | 4600 | 20400 | PAKY 45 |
| 2.244 | 57 | 4.543 | 115.4 | 0.803 | 20.4 | 1.260 | 32 | 1.693 | 43 | GAY115 NPPB | AK 10 | 7900 | 35000 | 5200 | 23200 | PAKY 1-15/16 |
| 2.244 | 57 | 4.543 | 115.4 | 0.803 | 20.4 | 1.260 | 32 | 1.693 | 43 | GAY50 NPPB | AK 10 | 7900 | 35000 | 5200 | 23200 | PAKY 50 |

# Pillow Block Housing
## RASE SERIES

- Standard center height
- Eccentric locking collar
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

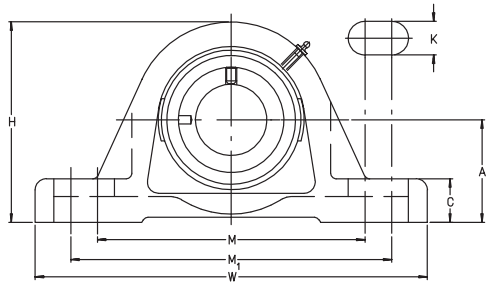


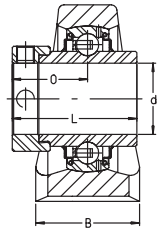

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RASE 1/2 | 1/2 | 0.5 | 12.7 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| RASE 15 | - | 0.591 | 15 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| RASE 5/8 | 5/8 | 0.625 | 15.875 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.55 | 4.921 | 125 |
| RASE 3/4 | 3/4 | 0.75 | 19.05 | 1.311 | 33.3 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| RASE 20 | - | 0.787 | 20 | 1.311 | 33.3 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| RASE 7/8 | 7/8 | 0.875 | 22.225 | 1.438 | 36.513 | 3.751 | 95.275 | 4.5 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.5 | 139.7 |
| RASE 15/16 | 15/16 | 0.938 | 23.813 | 1.438 | 36.513 | 3.751 | 95.275 | 4.5 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.5 | 139.7 |
| RASE 25 | - | 0.984 | 25 | 1.438 | 36.513 | 3.751 | 95.275 | 4.5 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.5 | 139.7 |
| RASE 1 | 1 | 1 | 25.4 | 1.438 | 36.513 | 3.751 | 95.275 | 4.5 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.5 | 139.7 |
| RASE 1-1/8 | 1-1/8 | 1.125 | 28.575 | 1.689 | 42.9 | 4.252 | 108 | 5 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| RASE 30 | - | 1.181 | 30 | 1.689 | 42.9 | 4.252 | 108 | 5 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| RASE 1-3/16 | 1-3/16 | 1.188 | 30.162 | 1.689 | 42.9 | 4.252 | 108 | 5 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| RASE 1-1/4 | 1-1/4 | 1.25 | 31.75 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| RASE 1-3/8 | 1-3/8 | 1.375 | 34.925 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| RASE 35 | - | 1.378 | 35 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.417 | 163 |
| RASE 1-7/16 | 1-7/16 | 1.438 | 36.512 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.772 | 172 |
| RASE 1-1/2 | 1-1/2 | 1.5 | 38.1 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| RASE 40 | - | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| RASE 1-5/8 | 1-5/8 | 1.625 | 41.275 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.4 | 7.677 | 195 |
| RASE 1-11/16 | 1-11/16 | 1.688 | 42.863 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.4 | 7.677 | 195 |
| RASE 1-3/4 | 1-3/4 | 1.75 | 44.45 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.4 | 7.677 | 195 |
| RASE 45 | - | 1.772 | 45 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.531 | 13.5 | 5.292 | 2.4 | 7.559 | 192 |
| RASE 1-15/16 | 1-15/16 | 1.938 | 49.212 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.972 | 202.5 |
| RASE 50 | - | 1.969 | 50 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.874 | 200 |
| RASE 2 | 2 | 2 | 50.8 | 2.5 | 63.5 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.820 | 4 | 8.858 | 225 |
| RASE 55 | - | 2.165 | 55 | 2.5 | 63.5 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.820 | 4 | 8.858 | 225 |
| RASE 2-3/16 | 2-3/16 | 2.188 | 55.562 | 2.5 | 63.5 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.820 | 4 | 8.858 | 225 |
| RASE 60 | - | 2.362 | 60 | 2.752 | 69.9 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.6 | 9.449 | 240 |
| RASE 2-7/16 | 2-7/16 | 2.438 | 61.912 | 2.752 | 69.9 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.6 | 9.646 | 245 |
| RASE 65 | - | 2.559 | 65 | 3.126 | 79.4 | 7.736 | 196.5 | 8.209 | 208.5 | 0.866 | 22 | 14.134 | 6.41 | 10.236 | 260 |
| RASE 70 | - | 2.756 | 70 | 3.126 | 79.4 | 7.736 | 196.5 | 8.209 | 208.5 | 0.866 | 22 | 14.134 | 6.41 | 10.236 | 260 |
| RASE 75 | - | 2.953 | 75 | 3.248 | 82.5 | 8.031 | 204 | 8.583 | 218 | 0.945 | 24 | 16.604 | 7.53 | 10.748 | 273 |
| RASE 80 | - | 3.150 | 80 | 3.504 | 89 | 8.819 | 224 | 9.449 | 240 | 1.024 | 26 | 19.073 | 8.65 | 11.417 | 290 |

# Pillow Block Housing
## RASE SERIES

- Standard center height
- Eccentric locking collar
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards



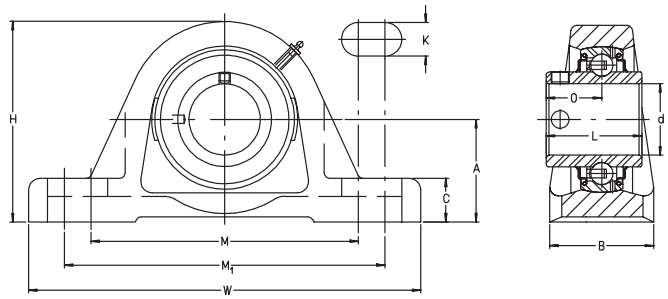




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| B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.26 | 32 | 2.284 | 58 | 0.551 | 14 | 0.921 | 23.4 | 1.469 | 37.3 | G1008 KRRB | ASE 03 | 2150 | 9600 | 1070 | 4750 | RASE 1/2 |
| 1.26 | 32 | 2.284 | 58 | 0.551 | 14 | 0.921 | 23.4 | 1.469 | 37.3 | GE15 KRRB | ASE 03 | 2150 | 9600 | 1070 | 4750 | RASE 15 |
| 1.26 | 32 | 2.284 | 58 | 0.551 | 14 | 0.921 | 23.4 | 1.469 | 37.3 | G1010 KRRB | ASE 03 | 2150 | 9600 | 1070 | 4750 | RASE 5/8 |
| 1.26 | 32 | 2.532 | 64.3 | 0.571 | 14.5 | 1.047 | 26.6 | 1.721 | 43.7 | G1012 KRRB | ASE 04 | 2900 | 12800 | 1480 | 6600 | RASE 3/4 |
| 1.26 | 32 | 2.520 | 64 | 0.571 | 14.5 | 1.047 | 26.6 | 1.721 | 43.7 | GE20 KRRB | ASE 04 | 2900 | 12800 | 1480 | 6600 | RASE 20 |
| 1.457 | 37 | 2.813 | 71.438 | 0.61 | 15.5 | 1.059 | 26.9 | 1.748 | 44.4 | G1014 KRRB | ASE 05 | 3150 | 14000 | 1760 | 7800 | RASE 7/8 |
| 1.457 | 37 | 2.813 | 71.438 | 0.61 | 15.5 | 1.059 | 26.9 | 1.748 | 44.4 | G1015 KRRB | ASE 06 | 3150 | 14000 | 1760 | 7800 | RASE 15/16 |
| 1.457 | 37 | 2.813 | 71.438 | 0.61 | 15.5 | 1.059 | 26.9 | 1.748 | 44.4 | GE25 KRRB | ASE 05 | 3150 | 14000 | 1760 | 7800 | RASE 25 |
| 1.457 | 37 | 2.813 | 71.438 | 0.61 | 15.5 | 1.059 | 26.9 | 1.748 | 44.4 | G1100 KRRB | ASE 05 | 3150 | 14000 | 1760 | 7800 | RASE 1 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | G1102 KRRB | ASE 06 | 4350 | 19500 | 2550 | 11300 | RASE 1-1/8 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | GE30 KRRB | ASE 06 | 4350 | 19500 | 2550 | 11300 | RASE 30 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | G1103 KRRB | ASE 06 | 4350 | 19500 | 2550 | 11300 | RASE 1-3/16 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | G1104 KRRB | ASE 07 | 5800 | 25500 | 3450 | 15300 | RASE 1-1/4 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | G1106 KRRB | ASE 07 | 5800 | 25500 | 3450 | 15300 | RASE 1-3/8 |
| 1.772 | 45 | 3.661 | 93 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | GE35 KRRB | ASE 07 | 5800 | 25500 | 3450 | 15300 | RASE 35 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | G1107 KRRB | ASE 07 | 5800 | 25500 | 3450 | 15300 | RASE 1-7/16 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.374 | 34.9 | 2.217 | 56.3 | G1108 KRRB | ASE 08 | 7300 | 32500 | 4450 | 19800 | RASE 1-1/2 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.374 | 34.9 | 2.217 | 56.3 | GE40 KRRB | ASE 08 | 7300 | 32500 | 4450 | 19800 | RASE 40 |
| 2.039 | 51.8 | 4.213 | 107 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.3 | G1110 KRRB | ASE 09 | 7400 | 32500 | 4600 | 20400 | RASE 1-5/8 |
| 2.039 | 51.8 | 4.213 | 107 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.3 | G1111 KRRB | ASE 09 | 7400 | 32500 | 4600 | 20400 | RASE 1-11/16 |
| 2.039 | 51.8 | 4.213 | 107 | 0.866 | 22 | 1.374 | 34.9 | 2.217 | 56.3 | G1112 KRRB | ASE 09 | 7400 | 32500 | 4600 | 20400 | RASE 1-3/4 |
| 1.890 | 48 | 4.213 | 107 | 0.846 | 21.5 | 1.374 | 34.9 | 2.217 | 56.3 | GE45 KRRB | ASE 09 | 7400 | 32500 | 4600 | 20400 | RASE 45 |
| 2.244 | 57 | 4.606 | 117 | 0.866 | 22 | 1.5 | 38.1 | 2.469 | 62.7 | G1115 KRRB | ASE 10 | 7900 | 35000 | 5200 | 23200 | RASE 1-15/16 |
| 2.126 | 54 | 4.528 | 115 | 0.846 | 21.5 | 1.5 | 38.1 | 2.469 | 62.7 | GE50 KRRB | ASE 10 | 7900 | 35000 | 5200 | 23200 | RASE 50 |
| 2.461 | 62.5 | 4.98 | 126.5 | 0.984 | 25 | 1.717 | 43.6 | 2.811 | 71.4 | G1200 KRRB | ASE 11 | 9800 | 43500 | 6600 | 29000 | RASE 2 |
| 2.461 | 62.5 | 4.98 | 126.5 | 0.984 | 25 | 1.717 | 43.6 | 2.811 | 71.4 | GE55 KRRB | ASE 11 | 9800 | 43500 | 6600 | 29000 | RASE 55 |
| 2.461 | 62.5 | 4.98 | 126.5 | 0.984 | 25 | 1.717 | 43.6 | 2.811 | 71.4 | G1203 KRRB | ASE 11 | 9800 | 43500 | 6600 | 29000 | RASE 2-3/16 |
| 2.362 | 60 | 5.512 | 140 | 0.984 | 25 | 1.843 | 46.8 | 3.063 | 77.8 | GE60 KRRB | ASE 12 | 11800 | 52000 | 8100 | 36000 | RASE 60 |
| 2.559 | 65 | 5.512 | 140 | 1.102 | 28 | 1.843 | 46.8 | 3.063 | 77.8 | G1207 KRRB | ASE 12 | 11800 | 52000 | 8100 | 36000 | RASE 2-7/16 |
| 2.559 | 65 | 6.142 | 156 | 1.083 | 27.5 | 1.756 | 44.6 | 2.602 | 66.1 | GE65 KRRB | ASE 14 | 14000 | 62000 | 9900 | 44000 | RASE 65 |
| 2.559 | 65 | 6.142 | 156 | 1.083 | 27.5 | 1.756 | 44.6 | 2.602 | 66.1 | GE70 KRRB | ASE 14 | 14000 | 62000 | 9900 | 44000 | RASE 70 |
| 2.598 | 66 | 6.457 | 164 | 1.083 | 27.5 | 1.795 | 45.6 | 2.642 | 67.1 | GE75 KRRB | ASE 15 | 14000 | 62000 | 10100 | 44500 | RASE 75 |
| 3.071 | 78 | 6.890 | 175 | 1.181 | 30 | 1.874 | 47.6 | 2.795 | 71 | GE80 KRRB | ASE 16 | 16100 | 72000 | 12200 | 54000 | RASE 80 |

# Pillow Block Housing
## RASEY SERIES

- Standard center height
- Set screw shaft locking
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

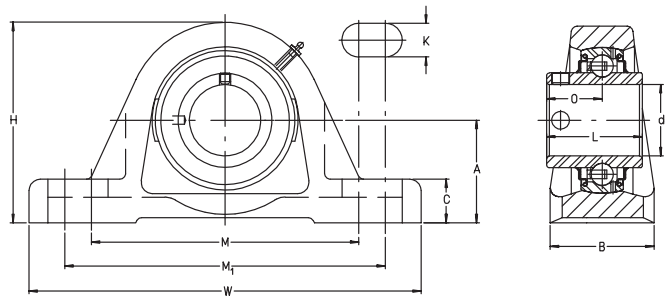



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RASEY 1/2 | 1/2 | 0.500 | 12.7 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.21 | 0.55 | 4.921 | 125 |
| RASEY 15 | - | 0.591 | 15 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.21 | 0.55 | 4.921 | 125 |
| RASEY 5/8 | 5/8 | 0.025 | 15.875 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.21 | 0.55 | 4.921 | 125 |
| RASEY 17 | - | 0.669 | 17 | 1.189 | 30.2 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.21 | 0.55 | 4.921 | 125 |
| RASEY 3/4 | 3/4 | 0.750 | 19.1 | 1.311 | 33.3 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.32 | 0.6 | 5.118 | 130 |
| RASEY 20 | - | 0.787 | 20 | 1.311 | 33.3 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.32 | 0.6 | 5.118 | 130 |
| RASEY 7/8 | 7/8 | 0.875 | 22.2 | 1.438 | 36.5 | 3.751 | 95.3 | 4.500 | 114.3 | 0.472 | 12 | 1.99 | 0.9 | 5.500 | 139.7 |
| RASEY 15/16 | 15/16 | 0.938 | 23.8 | 1.438 | 36.5 | 3.751 | 95.3 | 4.500 | 114.3 | 0.472 | 12 | 1.99 | 0.9 | 5.500 | 139.7 |
| RASEY 25 | - | 0.984 | 25 | 1.438 | 36.5 | 3.751 | 95.3 | 4.500 | 114.3 | 0.472 | 12 | 1.99 | 0.9 | 5.500 | 139.7 |
| RASEY 1 | 1 | 1 | 25.4 | 1.438 | 36.5 | 3.751 | 95.3 | 4.500 | 114.3 | 0.472 | 12 | 1.99 | 0.9 | 5.500 | 139.7 |
| RASEY 1-1/8 | 1-1/8 | 1.125 | 28.6 | 1.689 | 42.9 | 4.252 | 108 | 5.000 | 127 | 0.591 | 15 | 2.87 | 1.3 | 6.189 | 157.2 |
| RASEY 30 | - | 1.181 | 30 | 1.689 | 42.9 | 4.252 | 108 | 5.000 | 127 | 0.591 | 15 | 2.87 | 1.3 | 6.189 | 157.2 |
| RASEY 1-3/16 | 1-3/16 | 1.188 | 30.2 | 1.689 | 42.9 | 4.252 | 108 | 5.000 | 127 | 0.591 | 15 | 2.87 | 1.3 | 6.189 | 157.2 |
| RASEY 1-1/4-206 | 1-1/4 | 1.250 | 31.8 | 1.689 | 42.9 | 4.252 | 108 | 5.000 | 127 | 0.591 | 15 | 2.87 | 1.3 | 6.189 | 157.2 |
| RASEY 1-1/4 | 1-1/4 | 1.250 | 31.8 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.75 | 1.7 | 6.772 | 172 |
| RASEY 1-3/8 | 1-3/8 | 1.375 | 34.9 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.75 | 1.7 | 6.772 | 172 |
| RASEY 35 | - | 1.378 | 35 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.75 | 1.7 | 6.417 | 163 |
| RASEY 1-7/16 | 1-7/16 | 1.438 | 36.5 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.75 | 1.7 | 6.772 | 172 |
| RASEY 1-1/2 | 1-1/2 | 1.500 | 38.1 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.63 | 2.1 | 7.146 | 181.5 |
| RASEY 40 | - | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.63 | 2.1 | 7.146 | 181.5 |
| RASEY 1-5/8 | 1-5/8 | 1.625 | 41.3 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.29 | 2.4 | 7.677 | 195 |
| RASEY 1-11/16 | 1-11/16 | 1.688 | 42.9 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.29 | 2.4 | 7.677 | 195 |
| RASEY 1-3/4 | 1-3/4 | 1.750 | 44.5 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.29 | 2.4 | 7.677 | 195 |
| RASEY 45 | - | 1.772 | 45 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.531 | 13.5 | 5.29 | 2.4 | 7.559 | 192 |
| RASEY 1-15/16 | 1-15/16 | 1.938 | 49.2 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.06 | 3.2 | 7.972 | 202.5 |
| RASEY 50 | - | 1.969 | 50 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.06 | 3.2 | 7.874 | 200 |
| RASEY 2 | 2 | 2 | 50.8 | 2.500 | 63.5 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.82 | 4 | 8.858 | 225 |
| RASEY 55 | - | 2.165 | 55 | 2.500 | 63.5 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.82 | 4 | 8.858 | 225 |
| RASEY 2-3/16 | 2-3/16 | 2.188 | 55.6 | 2.500 | 63.5 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.82 | 4 | 8.858 | 225 |
| RASEY 60 | - | 2.362 | 60 | 2.752 | 69.9 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.35 | 5.6 | 9.449 | 240 |
| RASEY 2-7/16 | 2-7/16 | 2.438 | 61.9 | 2.752 | 69.9 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.35 | 5.6 | 9.646 | 245 |
| RASEY 65 | - | 2.559 | 65 | 3.126 | 79.4 | 7.736 | 196.5 | 8.209 | 208.5 | 0.866 | 22 | 13.12 | 5.95 | 10.236 | 260 |
| RASEY 70 | - | 2.756 | 70 | 3.126 | 79.4 | 7.736 | 196.5 | 8.209 | 208.5 | 0.866 | 22 | 12.46 | 5.65 | 10.236 | 260 |
| RASEY 75 | - | 2.953 | 75 | 3.248 | 82.5 | 8.031 | 204 | 8.583 | 218 | 0.945 | 24 | 15.85 | 7.19 | 10.748 | 273 |
| RASEY 80 | - | 3.150 | 80 | 3.504 | 89 | 8.819 | 224 | 9.449 | 240 | 1.024 | 26 | 19.03 | 8.63 | 11.417 | 290 |

# Pillow Block Housing
## RASEY SERIES

- Standard center height
- Set screw shaft locking
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

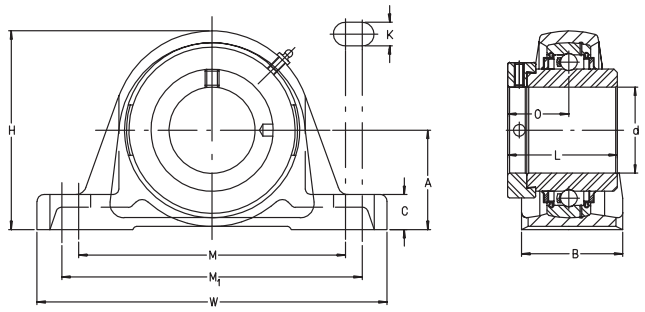



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For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.626 | 15.9 | 1.079 | 27.4 | GY1008 KRRB | ASE 03 | 2150 | 9600 | 1070 | 4750 | RASEY 1/2 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.626 | 15.9 | 1.079 | 27.4 | GYE15 KRRB | ASE 03 | 2150 | 9600 | 1070 | 4750 | RASEY 15 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.626 | 15.9 | 1.079 | 27.4 | GY1010 KRRB | ASE 03 | 2150 | 9600 | 1070 | 4750 | RASEY 5/8 |
| 1.260 | 32 | 2.284 | 58 | 0.551 | 14 | 0.626 | 15.9 | 1.079 | 27.4 | GYE17 KRRB | ASE 03 | 2150 | 9600 | 1070 | 4750 | RASEY 17 |
| 1.260 | 32 | 2.532 | 64.3 | 0.571 | 14.5 | 0.721 | 18.3 | 1.221 | 31 | GY1012 KRRB | ASE 04 | 2900 | 12800 | 1480 | 6600 | RASEY 3/4 |
| 1.260 | 32 | 2.520 | 64 | 0.571 | 14.5 | 0.721 | 18.3 | 1.221 | 31 | GYE20 KRRB | ASE 04 | 2900 | 12800 | 1480 | 6600 | RASEY 20 |
| 1.457 | 37 | 2.813 | 71.4 | 0.610 | 15.5 | 0.780 | 19.8 | 1.343 | 34.1 | GY1014 KRRB | ASE 05 | 3150 | 14000 | 1760 | 7800 | RASEY 7/8 |
| 1.457 | 37 | 2.813 | 71.4 | 0.610 | 15.5 | 0.780 | 19.8 | 1.343 | 34.1 | GY1015 KRRB | ASE 05 | 3150 | 14000 | 1760 | 7800 | RASEY 15/16 |
| 1.457 | 37 | 2.813 | 71.4 | 0.610 | 15.5 | 0.780 | 19.8 | 1.343 | 34.1 | GYE25 KRRB | ASE 05 | 3150 | 14000 | 1760 | 7800 | RASEY 25 |
| 1.457 | 37 | 2.813 | 71.4 | 0.610 | 15.5 | 0.780 | 19.8 | 1.343 | 34.1 | GY1100 KRRB | ASE 05 | 3150 | 14000 | 1760 | 7800 | RASEY 1 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 0.874 | 22.2 | 1.500 | 38.1 | GY1102 KRRB | ASE 06 | 4350 | 19500 | 2550 | 11300 | RASEY 1-1/8 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 0.874 | 22.2 | 1.500 | 38.1 | GYE30 KRRB | ASE 06 | 4350 | 19500 | 2550 | 11300 | RASEY 30 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 0.874 | 22.2 | 1.500 | 38.1 | GY1103 KRRB | ASE 06 | 4350 | 19500 | 2550 | 11300 | RASEY 1-3/16 |
| 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 0.874 | 22.2 | 1.500 | 38.1 | GY1104 KRRB-206 | ASE 06 | 4350 | 19500 | 2550 | 11300 | RASEY 1-1/4-206 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1 | 25.4 | 1.689 | 42.9 | GY1104 KRRB | ASE 07 | 5800 | 25500 | 3450 | 15300 | RASEY 1-1/4 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1 | 25.4 | 1.689 | 42.9 | GY1106 KRRB | ASE 07 | 5800 | 25500 | 3450 | 15300 | RASEY 1-3/8 |
| 1.772 | 45 | 3.661 | 93 | 0.748 | 19 | 1 | 25.4 | 1.689 | 42.9 | GYE35 KRRB | ASE 07 | 5800 | 25500 | 3450 | 15300 | RASEY 35 |
| 1.831 | 46.5 | 3.689 | 93.7 | 0.748 | 19 | 1 | 25.4 | 1.689 | 42.9 | GY1107 KRRB | ASE 07 | 5800 | 25500 | 3450 | 15300 | RASEY 1-7/16 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.189 | 30.2 | 1.937 | 49.2 | GY1108 KRRB | ASE 08 | 7300 | 32500 | 4450 | 19800 | RASEY 1-1/2 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.189 | 30.2 | 1.937 | 49.2 | GYE40 KRRB | ASE 08 | 7300 | 32500 | 4450 | 19800 | RASEY 40 |
| 2.039 | 51.8 | 4.213 | 107 | 0.866 | 22 | 1.189 | 30.2 | 1.937 | 49.2 | GY1110 KRRB | ASE 09 | 7400 | 32500 | 4600 | 20400 | RASEY 1-5/8 |
| 2.039 | 51.8 | 4.213 | 107 | 0.866 | 22 | 1.189 | 30.2 | 1.937 | 49.2 | GY1111 KRRB | ASE 09 | 7400 | 32500 | 4600 | 20400 | RASEY 1-11/16 |
| 2.039 | 51.8 | 4.213 | 107 | 0.866 | 22 | 1.189 | 30.2 | 1.937 | 49.2 | GY1112 KRRB | ASE 09 | 7400 | 32500 | 4600 | 20400 | RASEY 1-3/4 |
| 1.890 | 48 | 4.213 | 107 | 0.846 | 21.5 | 1.189 | 30.2 | 1.937 | 49.2 | GYE45 KRRB | ASE 09 | 7400 | 32500 | 4600 | 20400 | RASEY 45 |
| 2.244 | 57 | 4.606 | 117 | 0.866 | 22 | 1.284 | 32.6 | 2.032 | 51.6 | GY1115 KRRB | ASE 10 | 7900 | 35000 | 5200 | 23200 | RASEY 1-15/16 |
| 2.126 | 54 | 4.528 | 115 | 0.846 | 21.5 | 1.284 | 32.6 | 2.032 | 51.6 | GYE50 KRRB | ASE 10 | 7900 | 35000 | 5200 | 23200 | RASEY 50 |
| 2.461 | 62.5 | 4.980 | 126.5 | 0.984 | 25 | 1.315 | 33.4 | 2.189 | 55.6 | GY1200 KRRB | ASE 11 | 9800 | 43500 | 6600 | 29000 | RASEY 2 |
| 2.461 | 62.5 | 4.980 | 126.5 | 0.984 | 25 | 1.315 | 33.4 | 2.189 | 55.6 | GYE55 KRRB | ASE 11 | 9800 | 43500 | 6600 | 29000 | RASEY 55 |
| 2.461 | 62.5 | 4.980 | 126.5 | 0.984 | 25 | 1.315 | 33.4 | 2.189 | 55.6 | GY1203 KRRB | ASE 11 | 9800 | 43500 | 6600 | 29000 | RASEY 2-3/16 |
| 2.362 | 60 | 5.512 | 140 | 0.984 | 25 | 1.563 | 39.7 | 2.563 | 65.1 | GYE60 KRRB | ASE 12 | 11800 | 52000 | 8100 | 36000 | RASEY 60 |
| 2.559 | 65 | 5.512 | 140 | 1.102 | 28 | 1.563 | 39.7 | 2.563 | 65.1 | GY1207 KRRB | ASE 12 | 11800 | 52000 | 8100 | 36000 | RASEY 2-7/16 |
| 2.559 | 65 | 6.142 | 156 | 1.083 | 27.5 | 1.748 | 44.4 | 2.937 | 74.6 | GYE65 KRRB | ASE 14 | 14000 | 62000 | 9900 | 44000 | RASEY 65 |
| 2.559 | 65 | 6.142 | 156 | 1.083 | 27.5 | 1.748 | 44.4 | 2.937 | 74.6 | GYE70 KRRB | ASE 14 | 14000 | 62000 | 9900 | 44000 | RASEY 70 |
| 2.756 | 70 | 6.457 | 164 | 1.142 | 29 | 1.752 | 44.5 | 3.063 | 77.8 | GYE75 KRRB | ASE 15 | 14000 | 62000 | 10100 | 44500 | RASEY 75 |
| 3.071 | 78 | 6.890 | 175 | 1.181 | 30 | 1.941 | 49.3 | 3.252 | 82.6 | GYE80 KRRB | ASE 16 | 16100 | 72000 | 12200 | 54000 | RASEY 80 |

# Pillow Block Housings
## RAK SERIES

- Low center height
- Eccentric locking collar
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

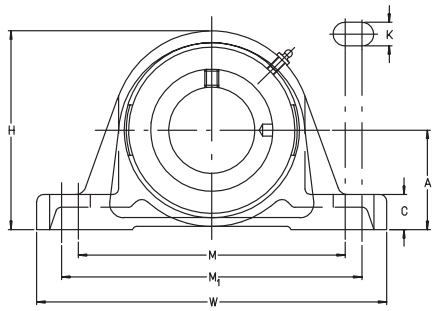


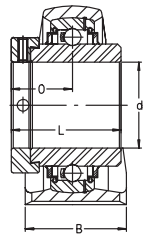

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAK 1/2 | 1/2 | 0.500 | 12.7 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.550 | 4.921 | 125 |
| RAK 15 | – | 0.591 | 15 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.550 | 4.921 | 125 |
| RAK 5/8 | 5/8 | 0.025 | 0.625 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.550 | 4.921 | 125 |
| RAK 3/4 | 3/4 | 0.750 | 19.05 | 1.252 | 31.8 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.600 | 5.118 | 130 |
| RAK 20 | – | 0.787 | 20 | 1.252 | 31.8 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.600 | 5.118 | 130 |
| RAK 7/8 | 7/8 | 0.875 | 22.225 | 1.313 | 33.338 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.900 | 5.500 | 139.7 |
| RAK 15/16 | 15/16 | 0.938 | 23.813 | 1.313 | 33.338 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.900 | 5.500 | 139.7 |
| RAK 25 | – | 0.984 | 25 | 1.313 | 33.338 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.900 | 5.500 | 139.7 |
| RAK 1 | 1 | 1.000 | 25.4 | 1.313 | 33.338 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.900 | 5.500 | 139.7 |
| RAK 1–1/8 | 1–1/8 | 1.125 | 28.575 | 1.563 | 39.688 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.300 | 6.189 | 157.2 |
| RAK 30 | – | 1.181 | 30 | 1.563 | 39.688 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.300 | 6.189 | 157.2 |
| RAK 1–3/16 | 1–3/16 | 1.188 | 30.162 | 1.563 | 39.688 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.300 | 6.189 | 157.2 |
| RAK 1–1/4 | 1–1/4 | 1.250 | 31.75 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.700 | 6.772 | 172 |
| RAK 1–3/8 | 1–3/8 | 1.375 | 34.925 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.700 | 6.772 | 172 |
| RAK 35 | – | 1.378 | 35 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.700 | 6.772 | 172 |
| RAK 1–7/16 | 1–7/16 | 1.438 | 36.512 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.700 | 6.772 | 172 |
| RAK 1–1/2 | 1–1/2 | 1.500 | 38.1 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.100 | 7.146 | 181.5 |
| RAK 40 | – | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.100 | 7.146 | 181.5 |
| RAK 1–5/8 | 1–5/8 | 1.625 | 41.275 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.400 | 7.677 | 195 |
| RAK 1–11/16 | 1–11/16 | 1.688 | 42.863 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.400 | 7.677 | 195 |
| RAK 1–3/4 | 1–3/4 | 1.750 | 44.45 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.400 | 7.677 | 195 |
| RAK 45 | – | 1.772 | 45 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.400 | 7.677 | 195 |
| RAK 1–15/16 | 1–15/16 | 1.938 | 49.212 | 2.189 | 55.6 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.200 | 7.972 | 202.5 |
| RAK 50 | – | 1.969 | 50 | 2.189 | 55.6 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.200 | 7.972 | 202.5 |
| RAK 2 | 2 | 2.000 | 50.8 | 2.437 | 61.9 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.820 | 4.000 | 8.858 | 225 |
| RAK 2–3/16 | 2–3/16 | 2.188 | 55.562 | 2.437 | 61.9 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.820 | 4.000 | 8.858 | 225 |
| RAK 60 | – | 2.362 | 60 | 2.689 | 68.3 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.600 | 9.646 | 245 |
| RAK 2–7/16 | 2–7/16 | 2.438 | 61.912 | 2.689 | 68.3 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.600 | 9.646 | 245 |

# Pillow Block Housings
## RAK SERIES

- Low center height
- Eccentric locking collar
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards



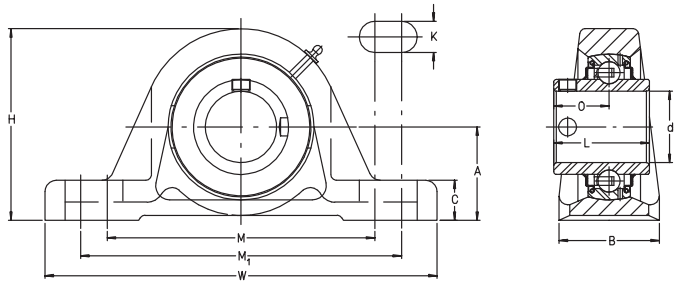




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HOUSING | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.921 | 23.4 | 1.469 | 37.3 | G1008 KRRB | AK 03 | 2150 | 9600 | 1070 | 4750 | RAK 1/2 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.921 | 23.4 | 1.469 | 37.3 | GE15 KRRB | AK 03 | 2150 | 9600 | 1070 | 4750 | RAK 15 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.921 | 23.4 | 1.469 | 37.3 | G1010 KRRB | AK 03 | 2150 | 9600 | 1070 | 4750 | RAK 5/8 |
| 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.921 | 23.4 | 1.469 | 37.3 | GE17 KRRB | AK 03 | 2150 | 9600 | 1070 | 4750 | RAK 3/4 |
| 1.260 | 32 | 2.472 | 62.8 | 0.512 | 13 | 1.047 | 26.6 | 1.721 | 43.7 | GE20 KRRB | AK 04 | 2900 | 12800 | 1480 | 6600 | RAK 20 |
| 1.457 | 37 | 2.688 | 68.263 | 0.563 | 14.288 | 1.059 | 26.9 | 1.748 | 44.4 | G1014 KRRB | AK 05 | 3150 | 14000 | 1760 | 7800 | RAK 7/8 |
| 1.457 | 37 | 2.688 | 68.263 | 0.563 | 14.288 | 1.059 | 26.9 | 1.748 | 44.4 | G1015 KRRB | AK 05 | 3150 | 14000 | 1760 | 7800 | RAK 15/16 |
| 1.457 | 37 | 2.688 | 68.263 | 0.563 | 14.288 | 1.059 | 26.9 | 1.748 | 44.4 | GE25 KRRB | AK 05 | 3150 | 14000 | 1760 | 7800 | RAK 25 |
| 1.457 | 37 | 2.688 | 68.263 | 0.563 | 14.288 | 1.059 | 26.9 | 1.748 | 44.4 | G1100 KRRB | AK 05 | 3150 | 14000 | 1760 | 7800 | RAK 1 |
| 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 1.185 | 30.1 | 1.906 | 48.4 | G1102 KRRB | AK 06 | 4350 | 19500 | 2550 | 11300 | RAK 1–1/8 |
| 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 1.185 | 30.1 | 1.906 | 48.4 | GE30 KRRB | AK 06 | 4350 | 19500 | 2550 | 11300 | RAK 30 |
| 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 1.185 | 30.1 | 1.906 | 48.4 | G1103 KRRB | AK 06 | 4350 | 19500 | 2550 | 11300 | RAK 1–3/16 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.272 | 32.3 | 2.012 | 51.1 | G1104 KRRB | AK 07 | 5800 | 25500 | 3450 | 15300 | RAK 1–1/4 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.272 | 32.3 | 2.012 | 51.1 | G1106 KRRB | AK 07 | 5800 | 25500 | 3450 | 15300 | RAK 1–3/8 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.272 | 32.3 | 2.012 | 51.1 | GE35 KRRB | AK 07 | 5800 | 25500 | 3450 | 15300 | RAK 35 |
| 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.272 | 32.3 | 2.012 | 51.1 | G1107 KRRB | AK 07 | 5800 | 25500 | 3450 | 15300 | RAK 1–7/16 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.374 | 34.9 | 2.217 | 56.3 | G1108 KRRB | AK 08 | 7300 | 32500 | 4450 | 19800 | RAK 1–1/2 |
| 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.374 | 34.9 | 2.217 | 56.3 | GE40 KRRB | AK 08 | 7300 | 32500 | 4450 | 19800 | RAK 40 |
| 2.028 | 51.5 | 4.150 | 105.4 | 0.803 | 20.4 | 1.374 | 34.9 | 2.217 | 56.3 | G1110 KRRB | AK 09 | 7400 | 32500 | 4600 | 20400 | RAK 1–5/8 |
| 2.028 | 51.5 | 4.150 | 105.4 | 0.803 | 20.4 | 1.374 | 34.9 | 2.217 | 56.3 | G1111 KRRB | AK 09 | 7400 | 32500 | 4600 | 20400 | RAK 1–11/16 |
| 2.028 | 51.5 | 4.150 | 105.4 | 0.803 | 20.4 | 1.374 | 34.9 | 2.217 | 56.3 | G1112 KRRB | AK 09 | 7400 | 32500 | 4600 | 20400 | RAK 1–3/4 |
| 2.028 | 51.5 | 4.150 | 105.4 | 0.803 | 20.4 | 1.374 | 34.9 | 2.217 | 56.3 | GE45 KRRB | AK 09 | 7400 | 32500 | 4600 | 20400 | RAK 45 |
| 2.244 | 57 | 4.543 | 115.4 | 0.803 | 20.4 | 1.500 | 38.1 | 2.469 | 62.7 | G1115 KRRB | AK 10 | 7900 | 35000 | 5200 | 23200 | RAK 1–15/16 |
| 2.244 | 57 | 4.543 | 115.4 | 0.803 | 20.4 | 1.500 | 38.1 | 2.469 | 62.7 | GE50 KRRB | AK 10 | 7900 | 35000 | 5200 | 23200 | RAK 50 |
| 2.461 | 62.5 | 4.917 | 124.9 | 0.921 | 23.4 | 1.717 | 43.6 | 2.811 | 71.4 | G1200 KRRB | AK 11 | 9800 | 43500 | 6600 | 29000 | RAK 2 |
| 2.461 | 62.5 | 4.917 | 124.9 | 0.921 | 23.4 | 1.717 | 43.6 | 2.811 | 71.4 | G1203 KRRB | AK 11 | 9800 | 43500 | 6600 | 29000 | RAK 2–3/16 |
| 2.559 | 65 | 5.449 | 138.4 | 1.039 | 26.4 | 1.843 | 46.8 | 3.063 | 77.8 | GE60 KRRB | AK 12 | 11800 | 52000 | 8100 | 36000 | RAK 60 |
| 2.559 | 65 | 5.449 | 138.4 | 1.039 | 26.4 | 1.843 | 46.8 | 3.063 | 77.8 | G1207 KRRB | AK 12 | 11800 | 52000 | 8100 | 36000 | RAK 2–7/16 |

# Pillow Block Housing
## RAKY SERIES

- Low center height
- Set screw shaft locking
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

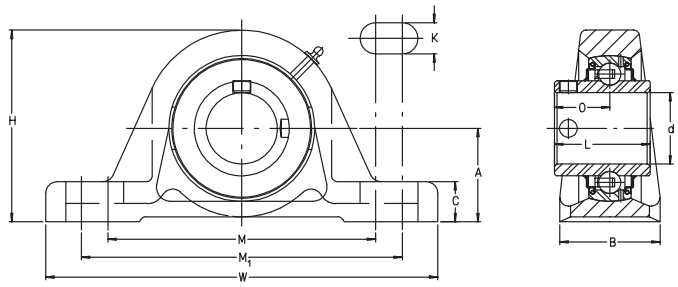



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RAKY 1/2 | 1/2 | 0.500 | 12.7 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.550 |
| RAKY 15 | 15 | 0.591 | 15 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.550 |
| RAKY 5/8 | 5/8 | 0.625 | 15.875 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.550 |
| RAKY 17 | 17 | 0.669 | 17 | 1.063 | 27 | 3.189 | 81 | 4.055 | 103 | 0.433 | 11 | 1.213 | 0.550 |
| RAKY 3/4 | 3/4 | 0.750 | 19.1 | 1.252 | 31.8 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.600 |
| RAKY 20 | 20 | 0.787 | 20 | 1.252 | 31.8 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.600 |
| RAKY 7/8 | 7/8 | 0.875 | 22.2 | 1.313 | 33.3 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.900 |
| RAKY 15/16 | 15/16 | 0.938 | 23.8 | 1.313 | 33.3 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.900 |
| RAKY 25 | 25 | 0.984 | 25 | 1.313 | 33.3 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.900 |
| RAKY 1 | 1 | 1.000 | 25.4 | 1.313 | 33.3 | 3.721 | 94.5 | 4.449 | 113 | 0.472 | 12 | 1.985 | 0.900 |
| RAKY 1-1/8 | 1-1/8 | 1.125 | 28.6 | 1.563 | 39.7 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.300 |
| RAKY 30 | 30 | 1.181 | 30 | 1.563 | 39.7 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.300 |
| RAKY 1-3/16 | 1-3/16 | 1.188 | 30.2 | 1.563 | 39.7 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.300 |
| RAKY 1-1/4-206 | 1-1/4-206 | 1.250 | 31.8 | 1.563 | 39.7 | 4.284 | 108.8 | 4.949 | 125.7 | 0.591 | 15 | 2.867 | 1.300 |
| RAKY 1-1/4 | 1-1/4 | 1.250 | 31.8 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.700 |
| RAKY 1-3/8 | 1-3/8 | 1.375 | 34.9 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.700 |
| RAKY 35 | 35 | 1.378 | 35 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.700 |
| RAKY 1-7/16 | 1-7/16 | 1.438 | 36.5 | 1.811 | 46 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.700 |
| RAKY 1-1/2 | 1-1/2 | 1.500 | 38.1 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.100 |
| RAKY 40 | 40 | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.100 |
| RAKY 1-5/8 | 1-5/8 | 1.625 | 41.3 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.400 |
| RAKY 1-11/16 | 1-11/16 | 1.688 | 42.9 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.400 |
| RAKY 1-3/4 | 1-3/4 | 1.750 | 44.5 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.400 |
| RAKY 45 | 45 | 1.772 | 45 | 2.063 | 52.4 | 5.374 | 136.5 | 6.319 | 160.5 | 0.563 | 14.3 | 5.292 | 2.400 |
| RAKY 1-15/16 | 1-15/16 | 1.938 | 49.2 | 2.189 | 55.6 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.200 |
| RAKY 50 | 50 | 1.969 | 50 | 2.189 | 55.6 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.200 |
| RAKY 2 | 2 | 2.000 | 50.8 | 2.437 | 61.9 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.820 | 4.000 |
| RAKY 55 | 55 | 2.165 | 55 | 2.437 | 61.9 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.820 | 4.000 |
| RAKY 2-3/16 | 2-3/16 | 2.188 | 55.6 | 2.437 | 61.9 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.820 | 4.000 |
| RAKY 60 | 60 | 2.362 | 60 | 2.689 | 68.3 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.600 |
| RAKY 2-7/16 | 2-7/16 | 2.438 | 61.9 | 2.689 | 68.3 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.600 |

# Pillow Block Housing
## RAKY SERIES

- Low center height
- Set screw shaft locking
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

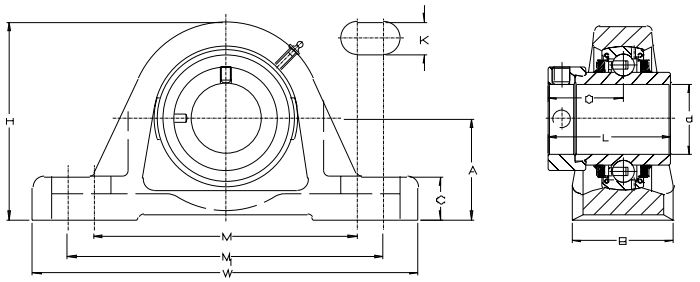



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| W inch | W mm | B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4.921 | 125 | 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.626 | 15.9 | 1.079 | 27.4 | GY1008 KRRB | AK 03 | 2150 | 9600 | 1070 | 4750 | RAKY 1/2 |
| 4.921 | 125 | 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.626 | 15.9 | 1.079 | 27.4 | GYE15 KRRB | AK 03 | 2150 | 9600 | 1070 | 4750 | RAKY 15 |
| 4.921 | 125 | 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.626 | 15.9 | 1.079 | 27.4 | GY1010 KRRB | AK 03 | 2150 | 9600 | 1070 | 4750 | RAKY 5/8 |
| 4.921 | 125 | 1.260 | 32 | 2.158 | 54.8 | 0.425 | 10.8 | 0.626 | 15.9 | 1.079 | 27.4 | GYE17 KRRB | AK 03 | 2150 | 9600 | 1070 | 4750 | RAKY 17 |
| 5.118 | 130 | 1.260 | 32 | 2.472 | 62.8 | 0.512 | 13 | 0.721 | 18.3 | 1.221 | 31 | GY1012 KRRB | AK 04 | 2900 | 12800 | 2550 | 6600 | RAKY 3/4 |
| 5.118 | 130 | 1.260 | 32 | 2.472 | 62.8 | 0.512 | 13 | 0.721 | 18.3 | 1.221 | 31 | GYE20 KRRB | AK 04 | 2900 | 12800 | 2550 | 6600 | RAKY 20 |
| 5.500 | 139.7 | 1.457 | 37 | 2.688 | 68.3 | 0.563 | 14.3 | 0.780 | 19.8 | 1.343 | 34.1 | GY1014 KRRB | AK 05 | 3150 | 14000 | 1760 | 7800 | RAKY 7/8 |
| 5.500 | 139.7 | 1.457 | 37 | 2.688 | 68.3 | 0.563 | 14.3 | 0.780 | 19.8 | 1.343 | 34.1 | GY1015 KRRB | AK 05 | 3150 | 14000 | 1760 | 7800 | RAKY 15/16 |
| 5.500 | 139.7 | 1.457 | 37 | 2.688 | 68.3 | 0.563 | 14.3 | 0.780 | 19.8 | 1.343 | 34.1 | GYE25 KRRB | AK 05 | 3150 | 14000 | 1760 | 7800 | RAKY 25 |
| 5.500 | 139.7 | 1.457 | 37 | 2.688 | 68.3 | 0.563 | 14.3 | 0.780 | 19.8 | 1.343 | 34.1 | GY1100 KRRB | AK 05 | 3150 | 14000 | 1760 | 7800 | RAKY 1 |
| 6.189 | 157.2 | 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 0.874 | 22.2 | 1.500 | 38.1 | GY1102 KRRB | AK 06 | 4350 | 19500 | 2550 | 11300 | RAKY 1-1/8 |
| 6.189 | 157.2 | 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 0.874 | 22.2 | 1.500 | 38.1 | GYE30 KRRB | AK 06 | 4350 | 19500 | 2550 | 11300 | RAKY 30 |
| 6.189 | 157.2 | 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 0.874 | 22.2 | 1.500 | 38.1 | GY1103 KRRB | AK 06 | 4350 | 19500 | 2550 | 11300 | RAKY 1-3/16 |
| 6.189 | 157.2 | 1.634 | 41.5 | 3.169 | 80.5 | 0.669 | 17 | 0.874 | 22.2 | 1.500 | 38.1 | GY1104 KRRB-206 | AK 06 | 4350 | 19500 | 2550 | 11300 | RAKY 1-1/4-206 |
| 6.772 | 172 | 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.000 | 25.4 | 1.689 | 42.9 | GY1104 KRRB | AK 07 | 5800 | 25500 | 3450 | 15300 | RAKY 1-1/4 |
| 6.772 | 172 | 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.000 | 25.4 | 1.689 | 42.9 | GY1106 KRRB | AK 07 | 5800 | 25500 | 3450 | 15300 | RAKY 1-3/8 |
| 6.772 | 172 | 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.000 | 25.4 | 1.689 | 42.9 | GYE35 KRRB | AK 07 | 5800 | 25500 | 3450 | 15300 | RAKY 35 |
| 6.772 | 172 | 1.831 | 46.5 | 3.626 | 92.1 | 0.685 | 17.4 | 1.000 | 25.4 | 1.689 | 42.9 | GY1107 KRRB | AK 07 | 5800 | 25500 | 3450 | 15300 | RAKY 1-7/16 |
| 7.146 | 181.5 | 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.189 | 30.2 | 1.937 | 49.2 | GY1108 KRRB | AK 08 | 7300 | 32500 | 4450 | 19800 | RAKY 1-1/2 |
| 7.146 | 181.5 | 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.189 | 30.2 | 1.937 | 49.2 | GYE40 KRRB | AK 08 | 7300 | 32500 | 4450 | 19800 | RAKY 40 |
| 7.677 | 195 | 2.028 | 51.5 | 4.150 | 105.4 | 0.803 | 20.4 | 1.189 | 30.2 | 1.937 | 49.2 | GY1110 KRRB | AK 09 | 7400 | 32500 | 4600 | 20400 | RAKY 1-5/8 |
| 7.677 | 195 | 2.028 | 51.5 | 4.150 | 105.4 | 0.803 | 20.4 | 1.189 | 30.2 | 1.937 | 49.2 | GY1111 KRRB | AK 09 | 7400 | 32500 | 4600 | 20400 | RAKY 1-11/16 |
| 7.677 | 195 | 2.028 | 51.5 | 4.150 | 105.4 | 0.803 | 20.4 | 1.189 | 30.2 | 1.937 | 49.2 | GY1112 KRRB | AK 09 | 7400 | 32500 | 4600 | 20400 | RAKY 1-3/4 |
| 7.677 | 195 | 2.028 | 51.5 | 4.150 | 105.4 | 0.803 | 20.4 | 1.189 | 30.2 | 1.937 | 49.2 | GYE45 KRRB | AK 09 | 7400 | 32500 | 4600 | 20400 | RAKY 45 |
| 7.972 | 202.5 | 2.244 | 57 | 4.543 | 115.4 | 0.803 | 20.4 | 1.284 | 32.6 | 2.032 | 51.6 | GY1115 KRRB | AK 10 | 7900 | 35000 | 5200 | 23200 | RAKY 1-15/16 |
| 7.972 | 202.5 | 2.244 | 57 | 4.543 | 115.4 | 0.803 | 20.4 | 1.284 | 32.6 | 2.032 | 51.6 | GYE50 KRRB | AK 10 | 7900 | 35000 | 5200 | 23200 | RAKY 50 |
| 8.858 | 225 | 2.461 | 62.5 | 4.917 | 124.9 | 0.921 | 23.4 | 1.315 | 33.4 | 2.189 | 55.6 | GY1200 KRRB | AK 11 | 9800 | 43500 | 6600 | 29000 | RAKY 2 |
| 8.858 | 225 | 2.461 | 62.5 | 4.917 | 124.9 | 0.921 | 23.4 | 1.315 | 33.4 | 2.189 | 55.6 | GYE55 KRRB | AK 11 | 9800 | 43500 | 6600 | 29000 | RAKY 55 |
| 8.858 | 225 | 2.461 | 62.5 | 4.917 | 124.9 | 0.921 | 23.4 | 1.315 | 33.4 | 2.189 | 55.6 | GY1203 KRRB | AK 11 | 9800 | 43500 | 6600 | 29000 | RAKY 2-3/16 |
| 9.646 | 245 | 2.559 | 65 | 5.449 | 138.4 | 1.039 | 26.4 | 1.563 | 39.7 | 2.563 | 65.1 | GYE60 KRRB | AK 12 | 11800 | 52000 | 8100 | 36000 | RAKY 60 |
| 9.646 | 245 | 2.559 | 65 | 5.449 | 138.4 | 1.039 | 26.4 | 1.563 | 39.7 | 2.563 | 65.1 | GY1207 KRRB | AK 12 | 11800 | 52000 | 8100 | 36000 | RAKY 2-7/16 |

# Pillow Block Housings
## TASE SERIES

- Eccentric locking collar
- Tri-ply P3 seals
- Inner ring extended both sides
- Standard shaft height




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

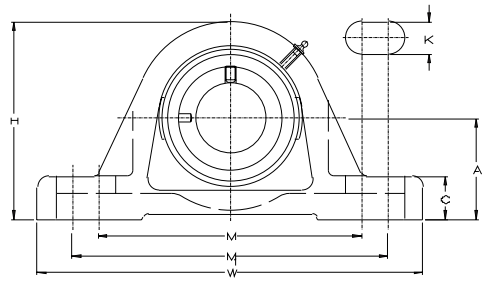
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TASE 20 | - | 0.787 | 20 | 1.311 | 33.3 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| TASE 25 | - | 0.984 | 25 | 1.438 | 36.513 | 3.751 | 95.3 | 4.500 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| TASE 30 | - | 1.181 | 30 | 1.689 | 42.9 | 4.252 | 108 | 5.000 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| TASE 35 | - | 1.378 | 35 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.417 | 163 |
| TASE 40 | - | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| TASE 45 | - | 1.772 | 45 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.531 | 13.5 | 5.292 | 2.4 | 7.559 | 192 |
| TASE 50 | - | 1.969 | 50 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.874 | 200 |
| TASE 55 | - | 2.165 | 55 | 2.500 | 63.5 | 6.476 | 164.5 | 7.362 | 187 | 0.709 | 18 | 8.820 | 4 | 8.858 | 225 |
| TASE 60 | - | 2.362 | 60 | 2.752 | 69.9 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.6 | 9.449 | 240 |
| TASE 65 | - | 2.559 | 65 | 3.126 | 79.4 | 7.736 | 196.5 | 8.209 | 208.5 | 0.866 | 22 | 14.134 | 6.4 | 10.236 | 260 |
| TASE 70 | - | 2.756 | 70 | 3.126 | 79.4 | 7.736 | 196.5 | 8.209 | 208.5 | 0.866 | 22 | 14.134 | 6.4 | 10.236 | 260 |
| TASE 75 | - | 2.953 | 75 | 3.248 | 82.5 | 8.031 | 204 | 8.583 | 218 | 0.945 | 24 | 16.604 | 7.5 | 10.748 | 273 |
| TASE 80 | - | 3.150 | 80 | 3.504 | 89 | 8.819 | 224 | 9.449 | 240 | 1.024 | 26 | 19.073 | 8.7 | 11.417 | 290 |

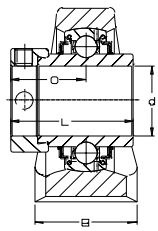
**CONTINUED FROM ABOVE**

| PART NUMBER | B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TASE 20 | 1.260 | 32 | 2.520 | 64 | 0.571 | 14.5 | 1.047 | 26.6 | 1.721 | 43.7 | GE20 KPPB-3 | ASE 04 | 2900 | 12800 | 1480 | 6600 |
| TASE 25 | 1.457 | 37 | 2.813 | 71.436 | 0.610 | 15.5 | 1.059 | 26.9 | 1.748 | 44.4 | GE25 KPPB-3 | ASE 05 | 3150 | 14000 | 1760 | 7800 |
| TASE 30 | 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | GE30 KPPB-3 | ASE 06 | 4350 | 19500 | 2550 | 11300 |
| TASE 35 | 1.772 | 45 | 3.661 | 93 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | GE35 KPPB-3 | ASE 07 | 5800 | 25500 | 3450 | 15300 |
| TASE 40 | 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.374 | 34.9 | 2.217 | 56.3 | GE40 KPPB-3 | ASE 08 | 7300 | 32500 | 4450 | 19800 |
| TASE 45 | 1.890 | 48 | 4.213 | 107 | 0.846 | 21.5 | 1.374 | 34.9 | 2.217 | 56.3 | GE45 KPPB-3 | ASE 09 | 7400 | 32500 | 4600 | 20400 |
| TASE 50 | 2.126 | 54 | 4.528 | 115 | 0.846 | 21.5 | 1.500 | 38.1 | 2.469 | 62.7 | GE50 KPPB-3 | ASE 10 | 7900 | 35000 | 5200 | 23200 |
| TASE 55 | 2.461 | 62.5 | 4.980 | 126.5 | 0.984 | 25 | 1.717 | 43.6 | 2.811 | 71.4 | GE55 KPPB-3 | ASE 11 | 9800 | 43500 | 6600 | 29000 |
| TASE 60 | 2.362 | 60 | 5.512 | 140 | 0.984 | 25 | 1.843 | 46.8 | 3.063 | 77.8 | GE60 KPPB-3 | ASE 12 | 11800 | 52000 | 8100 | 36000 |
| TASE 65 | 2.559 | 65 | 6.142 | 156 | 1.083 | 27.5 | 1.756 | 44.6 | 2.602 | 66.1 | GE65 KPPB-3 | ASE 14 | 14000 | 62000 | 9900 | 44000 |
| TASE 70 | 2.559 | 65 | 6.142 | 156 | 1.083 | 27.5 | 1.756 | 44.6 | 2.602 | 66.1 | GE70 KPPB-3 | ASE 14 | 14000 | 62000 | 9900 | 44000 |
| TASE 75 | 2.598 | 66 | 6.457 | 164 | 1.083 | 27.5 | 1.795 | 45.6 | 2.642 | 67.1 | GE75 KPPB-3 | ASE 15 | 14000 | 62000 | 10100 | 44500 |
| TASE 80 | 3.071 | 78 | 6.890 | 175 | 1.181 | 30 | 1.874 | 47.6 | 2.795 | 71 | GE80 KPPB-3 | ASE 16 | 16100 | 72000 | 12200 | 54000 |

# Pillow Block Housings
## LASE SERIES

- Non-contact labyrinth seals
- Inner ring extended both sides
- Suitable for temperatures to 180° C
- Eccentric locking collar
- Standard shaft height




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

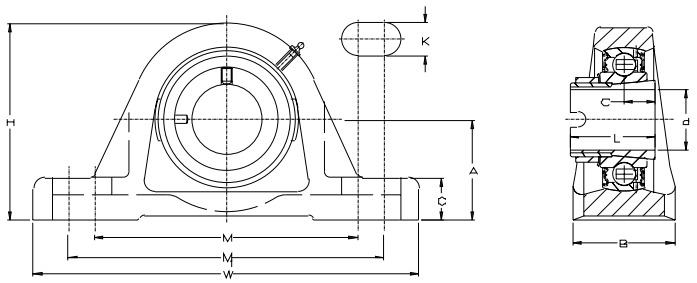
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LASE 20 | - | 0.787 | 20 | 1.311 | 33.3 | 3.425 | 87 | 4.134 | 105 | 0.433 | 11 | 1.323 | 0.6 | 5.118 | 130 |
| LASE 25 | - | 0.984 | 25 | 1.438 | 36.513 | 3.751 | 95.275 | 4.500 | 114.3 | 0.472 | 12 | 1.985 | 0.9 | 5.500 | 139.7 |
| LASE 30 | - | 1.181 | 30 | 1.689 | 42.9 | 4.252 | 108 | 5.000 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| LASE 35 | - | 1.378 | 35 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.417 | 163 |
| LASE 40 | - | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| LASE 45 | - | 1.772 | 45 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.531 | 13.5 | 5.292 | 2.4 | 7.559 | 192 |
| LASE 50 | - | 1.969 | 50 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.874 | 200 |

**CONTINUED FROM ABOVE**

| PART NUMBER | B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LASE 20 | 1.260 | 32 | 2.520 | 64 | 0.571 | 14.5 | 1.047 | 26.6 | 1.721 | 43.7 | GE20 KLLHB | ASE 04 | 2900 | 12800 | 1480 | 6600 |
| LASE 25 | 1.457 | 37 | 2.813 | 71.436 | 0.610 | 15.5 | 1.059 | 26.9 | 1.748 | 44.4 | GE25 KLLHB | ASE 05 | 3150 | 14000 | 1760 | 7800 |
| LASE 30 | 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 1.185 | 30.1 | 1.906 | 48.4 | GE30 KLLHB | ASE 06 | 4350 | 19500 | 2550 | 11300 |
| LASE 35 | 1.772 | 45 | 3.661 | 93 | 0.748 | 19 | 1.272 | 32.3 | 2.012 | 51.1 | GE35 KLLHB | ASE 07 | 5800 | 25500 | 3450 | 15300 |
| LASE 40 | 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.374 | 34.9 | 2.217 | 56.3 | GE40 KLLHB | ASE 08 | 7300 | 32500 | 4450 | 19800 |
| LASE 45 | 1.890 | 48 | 4.213 | 107 | 0.846 | 21.5 | 1.374 | 34.9 | 2.217 | 56.3 | GE45 KLLHB | ASE 09 | 7400 | 32500 | 4600 | 20400 |
| LASE 50 | 2.126 | 54 | 4.528 | 115 | 0.846 | 21.5 | 1.500 | 38.1 | 2.469 | 62.7 | GE50 KLLHB | ASE 10 | 7900 | 35000 | 5200 | 23200 |

# Pillow Block Housing
## RASEA SERIES

- Standard center height
- Eccentric locking collar
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

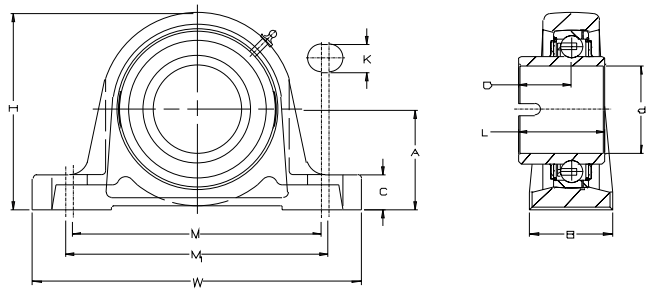
| PART NUMBER | SHAFT d mm | SHAFT d inch | W mm | W inch | H mm | H inch | B mm | B inch | L mm | L inch | A mm | A inch | C mm | C inch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RASEA 20 | 20 | 0.787 | 130 | 5.118 | 64 | 2.520 | 32 | 1.260 | 28 | 1.102 | 33 | 1.311 | 15 | 0.571 |
| RASEA 25 | 25 | 0.984 | 130 | 5.118 | 70 | 2.756 | 36 | 1.417 | 28 | 1.102 | 37 | 1.437 | 15 | 0.571 |
| RASEA 30 | 30 | 1.181 | 158 | 6.220 | 82 | 3.228 | 40 | 1.575 | 32 | 1.260 | 43 | 1.689 | 17 | 0.669 |
| RASEA 35 | 35 | 1.378 | 163 | 6.417 | 93 | 3.661 | 45 | 1.772 | 34 | 1.339 | 48 | 1.874 | 19 | 0.748 |
| RASEA 40 | 40 | 1.575 | 179 | 7.047 | 99 | 3.898 | 48 | 1.890 | 38 | 1.496 | 49 | 1.937 | 19 | 0.748 |

**CONTINUED FROM ABOVE**

| M mm | M inch | $M_1$ mm | $M_1$ inch | K mm | K inch | Q | $C_r$ N | $C_r$ lbf | $C_{0r}$ N | $C_{0r}$ lbf | MASS kg | MASS lbs | HOUSING | BEARING | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 89 | 3.504 | 105 | 4.134 | 11 | 0.433 | R 1/8 | 12700 | 2800 | 6600 | 1500 | 0.51 | 1.125 | GG ASE 04 | GSH 20 RRB | RASEA 20 |
| 95 | 3.740 | 111 | 4.370 | 11 | 0.433 | R 1/8 | 13600 | 3000 | 7800 | 1750 | 0.60 | 1.323 | GG ASE 05 | GSH 25 RRB | RASEA 25 |
| 110 | 4.331 | 126 | 4.961 | 14 | 0.551 | R 1/8 | 18900 | 4200 | 11300 | 2500 | 1.00 | 2.205 | GG ASE 06 | GSH 30 RRB | RASEA 30 |
| 119 | 4.685 | 133 | 5.236 | 14 | 0.551 | R 1/8 | 24900 | 6000 | 15300 | 3400 | 1.48 | 3.263 | GG ASE 07 | GSH 35 RRB | RASEA 35 |
| 126 | 4.961 | 150 | 5.906 | 14 | 0.551 | R 1/8 | 29500 | 6600 | 19800 | 4400 | 1.71 | 3.771 | GG ASE/AK 08 | GSH 40 RRB | RASEA 40 |

# Pillow Block Housings
## RASEL SERIES

- Standard R seals
- Non-locating expansion bearing
- Drive slot inner ring




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

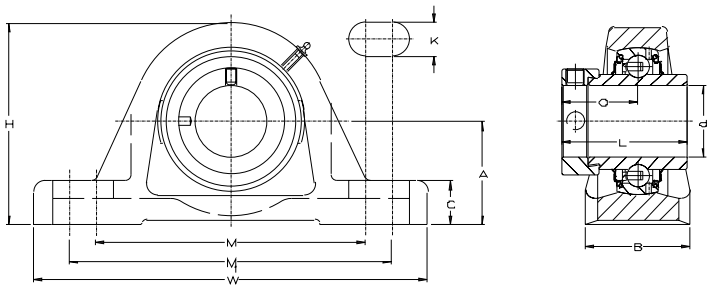
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RASEL 30 | - | 1.181 | 30 | 1.689 | 42.9 | 4.252 | 108 | 5.000 | 127 | 0.591 | 15 | 2.867 | 1.3 | 6.189 | 157.2 |
| RASEL 35 | - | 1.378 | 35 | 1.874 | 47.6 | 4.807 | 122.1 | 5.429 | 137.9 | 0.591 | 15 | 3.749 | 1.7 | 6.417 | 163 |
| RASEL 40 | - | 1.575 | 40 | 1.937 | 49.2 | 4.921 | 125 | 5.787 | 147 | 0.591 | 15 | 4.631 | 2.1 | 7.146 | 181.5 |
| RASEL 45 | - | 1.772 | 45 | 2.126 | 54 | 5.374 | 136.5 | 6.319 | 160.5 | 0.531 | 13.5 | 5.292 | 2.4 | 7.559 | 192 |
| RASEL 50 | - | 1.969 | 50 | 2.252 | 57.2 | 5.965 | 151.5 | 6.437 | 163.5 | 0.709 | 18 | 7.056 | 3.2 | 7.874 | 200 |
| RASEL 60 | - | 2.362 | 60 | 2.752 | 69.9 | 6.969 | 177 | 7.933 | 201.5 | 0.709 | 18 | 12.348 | 5.6 | 9.449 | 240 |
| RASEL 70 | - | 2.756 | 70 | 3.126 | 79.4 | 7.736 | 196.5 | 8.209 | 208.5 | 0.866 | 22 | 14.134 | 6.4 | 10.236 | 260 |

**CONTINUED FROM ABOVE**

| PART NUMBER | B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RASEL 30 | 1.673 | 42.5 | 3.284 | 83.4 | 0.709 | 18 | 0.866 | 22 | 1.906 | 48.4 | GLE30 KRRB | ASE 06 | 4350 | 19500 | 2550 | 11300 |
| RASEL 35 | 1.772 | 45 | 3.661 | 93.7 | 0.748 | 19 | 0.866 | 22 | 2.012 | 51.1 | GLE35 KRRB | ASE 07 | 5800 | 25500 | 3450 | 15300 |
| RASEL 40 | 1.969 | 50 | 3.937 | 100 | 0.787 | 20 | 1.063 | 27 | 2.217 | 56.3 | GLE40 KRRB | ASE 08 | 7300 | 32500 | 4450 | 19800 |
| RASEL 45 | 1.890 | 48 | 4.213 | 107 | 0.846 | 21.5 | 1.004 | 25.5 | 2.217 | 56.3 | GLE45 KRRB | ASE 09 | 7400 | 32500 | 4600 | 20400 |
| RASEL 50 | 2.126 | 54 | 4.606 | 115 | 0.846 | 21.5 | 1.189 | 30.2 | 2.469 | 62.7 | GLE50 KRRB | ASE 10 | 7900 | 35000 | 5200 | 23200 |
| RASEL 60 | 2.362 | 60 | 5.512 | 140 | 2.984 | 25 | 1.492 | 37.9 | 3.063 | 77.8 | GLE60 KRRB | ASE 12 | 11800 | 52000 | 8100 | 36000 |
| RASEL 70 | 2.559 | 65 | 6.142 | 156 | 1.083 | 27.5 | 1.622 | 41.2 | 2.602 | 66.1 | GLE70 KRRB | ASE 14 | 14000 | 62000 | 9900 | 44000 |

# Pillow Block Housings
## RSAO SERIES

- Eccentric locking collar
- Standard R seals
- Inner ring extended both sides
- Heavy series - based on 6300 Series




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

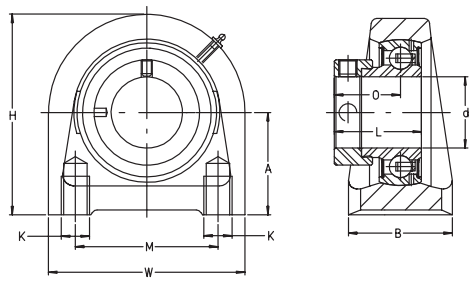
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | M inch | M mm | $M_1$ inch | $M_1$ mm | K inch | K mm | WGT. lbs | WGT. kg | W inch | W mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RSAO 30 | - | 1.181 | 30 | 1.969 | 50 | 5.394 | 137 | 5.630 | 143 | 0.689 | 17.5 | 3.97 | 1.8 | 7.087 | 180 |
| RSAO 35 | - | 1.378 | 35 | 2.205 | 56 | 5.984 | 152 | 6.614 | 168 | 0.689 | 17.5 | 6.06 | 2.75 | 8.268 | 210 |
| RSAO 40 | - | 1.575 | 40 | 2.362 | 60 | 6.299 | 160 | 7.087 | 180 | 0.689 | 17.5 | 7.01 | 3.18 | 8.661 | 220 |
| RSAO 50 | - | 1.969 | 50 | 2.953 | 75 | 7.756 | 197 | 8.937 | 227 | 0.787 | 20 | 13.45 | 6.10 | 10.827 | 275 |
| RSAO 60 | - | 2.362 | 60 | 3.346 | 85 | 9.331 | 237 | 10.354 | 263 | 0.984 | 25 | 19.85 | 9.00 | 12.992 | 330 |
| RSAO 70 | - | 2.756 | 70 | 3.740 | 95 | 10.512 | 267 | 11.693 | 297 | 1.063 | 27 | 24.26 | 11.00 | 14.173 | 360 |

**CONTINUED FROM ABOVE**

| PART NUMBER | B inch | B mm | H inch | H mm | C inch | C mm | O inch | O mm | L inch | L mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RSAO 30 | 1.969 | 50 | 3.740 | 95 | 0.709 | 18 | 1.280 | 32.5 | 1.969 | 50 | GNE30 KRRB | SAO 06 | 6700 | 29500 | 3750 | 16700 |
| RSAO 35 | 2.205 | 56 | 4.173 | 106 | 0.787 | 20 | 1.315 | 33.4 | 2.031 | 51.6 | GNE35 KRRB | SAO 07 | 8200 | 36500 | 4700 | 20900 |
| RSAO 40 | 2.362 | 60 | 4.567 | 116 | 0.866 | 22 | 1.441 | 36.6 | 2.150 | 54.6 | GNE40 KRRB | SAO 08 | 10000 | 44500 | 5800 | 26000 |
| RSAO 50 | 2.953 | 75 | 5.630 | 143 | 1.063 | 27 | 1.657 | 42.1 | 2.626 | 66.7 | GNE50 KRRB | SAO 10 | 13900 | 62000 | 8500 | 38000 |
| RSAO 60 | 3.346 | 85 | 6.496 | 165 | 1.260 | 32 | 1.787 | 45.4 | 2.693 | 68.4 | GNE60 KRRB | SAO 12 | 18400 | 82000 | 11700 | 52000 |
| RSAO 70 | 3.543 | 90 | 7.362 | 187 | 1.378 | 35 | 1.945 | 49.4 | 2.969 | 75.4 | GNE70 KRRB | SAO 14 | 23400 | 104000 | 15300 | 68000 |

# Tapped Base Housing Units
## PSHE SERIES

- Metric series
- Metric tapped base pillow block
- Economy P seals
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

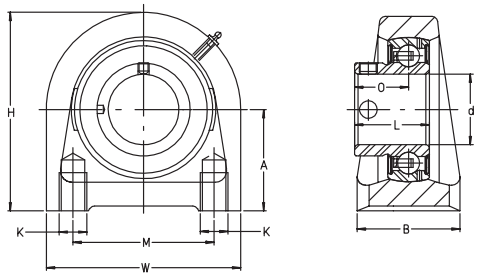
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | H inch | H mm | K THREADS | O inch | O mm | L inch | L mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PSHE12 | 0.472 | 12 | 1.189 | 30.2 | 1.181 | 30 | 2.244 | 57 | M 8 | 0.870 | 22.1 | 1.850 | 47.0 |
| PSHE15 | 0.591 | 15 | 1.189 | 30.2 | 1.181 | 30 | 2.244 | 57 | M 8 | 0.870 | 22.1 | 1.850 | 47.0 |
| PSHE17 | 0.669 | 17 | 1.189 | 30.2 | 1.181 | 30 | 2.244 | 57 | M 8 | 0.870 | 22.1 | 1.850 | 47.0 |
| PSHE20 | 0.787 | 20 | 1.311 | 33.3 | 1.260 | 32 | 2.520 | 64 | M 8 | 0.925 | 23.5 | 1.221 | 31.0 |
| PSHE25 | 0.984 | 25 | 1.437 | 36.5 | 1.417 | 36 | 2.756 | 70 | M 10 | 0.925 | 23.5 | 1.221 | 31.0 |
| PSHE30 | 1.181 | 30 | 1.689 | 42.9 | 1.575 | 40 | 3.228 | 82 | M 10 | 1.051 | 26.7 | 1.406 | 35.7 |
| PSHE35 | 1.378 | 35 | 1.874 | 47.6 | 1.772 | 45 | 3.661 | 93 | M 10 | 1.158 | 29.4 | 1.532 | 38.9 |
| PSHE40 | 1.575 | 40 | 1.937 | 49.2 | 1.890 | 48 | 3.898 | 99 | M12 | 1.287 | 32.7 | 1.721 | 43.7 |
| PSHE45 | 1.772 | 45 | 2.126 | 54 | 1.890 | 48 | 4.016 | 102 | M12 | 1.287 | 32.7 | 1.721 | 43.7 |
| PSHE50 | 1.969 | 50 | 2.252 | 57.2 | 2.126 | 54 | 4.528 | 115 | M 16 | 1.287 | 32.7 | 1.721 | 43.7 |
| PSHE55 | 2.165 | 55 | 2.520 | 64 | 2.362 | 60 | 4.921 | 125 | M 16 | 1.433 | 36.4 | 1.433 | 36.4 |

**CONTINUED FROM ABOVE**

| PART NUMBER | M inch | M mm | W inch | W mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PSHE12 | 1.850 | 47 | 2.480 | 63 | 0.970 | 0.44 | 2150 | 9600 | 1070 | 4750 | SHE03 | GRAE12NPPB |
| PSHE15 | 1.850 | 47 | 2.480 | 63 | 0.970 | 0.44 | 2150 | 9600 | 1070 | 4750 | SHE03 | GRAE15NPPB |
| PSHE17 | 1.850 | 47 | 2.480 | 63 | 0.970 | 0.44 | 2150 | 9600 | 1070 | 4750 | SHE03 | GRAE17NPPB |
| PSHE20 | 2.000 | 50.8 | 2.559 | 65 | 1.125 | 0.51 | 2900 | 12800 | 1480 | 6600 | SHE04 | GRAE20NPPB |
| PSHE25 | 2.000 | 50.8 | 2.756 | 70 | 1.323 | 0.60 | 3150 | 14000 | 1750 | 7800 | SHE05 | GRAE25NPPB |
| PSHE30 | 3.000 | 76.2 | 3.858 | 98 | 2.315 | 1.05 | 4400 | 19500 | 2550 | 11300 | SHE06 | GRAE30NPPB |
| PSHE35 | 3.252 | 82.6 | 4.055 | 103 | 3.175 | 1.44 | 5750 | 25500 | 3450 | 15300 | SHE07 | GRAE35NPPB |
| PSHE40 | 3.500 | 88.9 | 4.567 | 116 | 4.057 | 1.84 | 7300 | 32500 | 4450 | 19800 | SHE08 | GRAE40NPPB |
| PSHE45 | 3.752 | 95.3 | 4.724 | 120 | 4.719 | 2.14 | 7300 | 32500 | 4450 | 19800 | SHE09 | GRAE45NPPB |
| PSHE50 | 4.000 | 101.6 | 5.315 | 135 | 6.152 | 2.79 | 7850 | 35000 | 5200 | 23200 | SHE10 | GRAE50NPPB |
| PSHE55 | 4.646 | 118 | 5.906 | 150 | 6.417 | 2.91 | 9800 | 43500 | 6500 | 29000 | SHE11 | GRAE55NPPB |

# Housing Units
## PSHEY SERIES

- Metric series
- Tapped base pillow block
- Economy seals
- Set screw locking




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

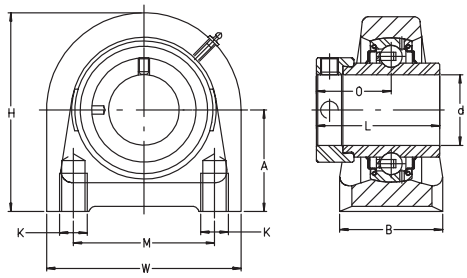
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | H inch | H mm | K THREADS | O inch | O mm | L inch | L mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PSHEY20 | 0.787 | 20 | 1.311 | 33.3 | 1.260 | 32 | 2.520 | 64 | M 8 | 0.709 | 18.000 | 0.984 | 25.000 |
| PSHEY25 | 0.984 | 25 | 1.437 | 36.5 | 1.417 | 36 | 2.756 | 70 | M 10 | 0.768 | 19.500 | 1.063 | 27.000 |
| PSHEY30 | 1.181 | 30 | 1.689 | 42.9 | 1.575 | 40 | 3.228 | 82 | M 10 | 1.185 | 30.100 | 1.181 | 30.000 |
| PSHEY35 | 1.378 | 35 | 1.874 | 47.6 | 1.772 | 45 | 3.661 | 93 | M 10 | 1.004 | 25.500 | 1.378 | 35.000 |
| PSHEY40 | 1.575 | 40 | 1.937 | 49.2 | 1.890 | 48 | 3.898 | 99 | M12 | 1.142 | 29.000 | 1.555 | 39.500 |
| PSHEY45 | 1.772 | 45 | 2.126 | 54 | 1.890 | 48 | 4.016 | 102 | M12 | 1.201 | 30.500 | 1.634 | 41.500 |
| PSHEY50 | 1.969 | 50 | 2.252 | 57.2 | 2.126 | 54 | 4.528 | 115 | M 16 | 1.260 | 32.000 | 1.693 | 43.000 |

**CONTINUED FROM ABOVE**

| PART NUMBER | M inch | M mm | W inch | W mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PSHEY20 | 2.000 | 50.8 | 2.559 | 65 | 1.191 | 0.540 | 2,900 | 12800 | 1,480 | 6600 | SHE04 | GAY20NPPB |
| PSHEY25 | 2.000 | 50.8 | 2.756 | 70 | 1.389 | 0.630 | 3,150 | 14000 | 1,750 | 7800 | SHE05 | GAY25NPPB |
| PSHEY30 | 3.000 | 76.2 | 3.858 | 98 | 2.448 | 1.110 | 4,400 | 19500 | 2,550 | 11300 | SHE06 | GAY30NPPB |
| PSHEY35 | 3.252 | 82.6 | 4.055 | 103 | 3.374 | 1.530 | 5,750 | 25500 | 3,450 | 15300 | SHE07 | GAY35NPPB |
| PSHEY40 | 3.500 | 88.9 | 4.567 | 116 | 3.815 | 1.730 | 7,300 | 32500 | 4,450 | 19800 | SHE08 | GAY40NPPB |
| PSHEY45 | 3.752 | 95.3 | 4.724 | 120 | 5.027 | 2.280 | 7,300 | 32500 | 4,450 | 19800 | SHE09 | GAY45NPPB |
| PSHEY50 | 4.000 | 101.6 | 5.315 | 135 | 6.483 | 2.940 | 7,850 | 35000 | 5,200 | 23200 | SHE10 | GAY50NPPB |

# Housing Units
## RSHE SERIES

- Metric series
- Tapped base pillow block
- Standard seals
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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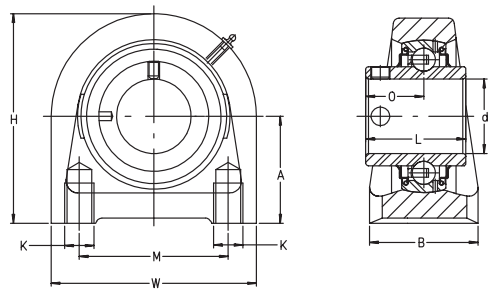
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | H inch | H mm | K THREADS | O inch | O mm | L inch | L mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RSHE20 | 0.787 | 20 | 1.311 | 33.3 | 1.260 | 32 | 2.520 | 64 | M 8 | 1.047 | 26.600 | 1.721 | 43.700 |
| RSHE25 | 0.984 | 25 | 1.437 | 36.5 | 1.417 | 36 | 2.756 | 70 | M 10 | 1.059 | 26.900 | 1.748 | 44.400 |
| RSHE30 | 1.181 | 30 | 1.689 | 42.9 | 1.575 | 40 | 3.228 | 82 | M 10 | 0.827 | 21.000 | 1.906 | 48.400 |
| RSHE35 | 1.378 | 35 | 1.874 | 47.6 | 1.772 | 45 | 3.661 | 93 | M 10 | 1.272 | 32.300 | 2.012 | 51.100 |
| RSHE40 | 1.575 | 40 | 1.937 | 49.2 | 1.890 | 48 | 3.898 | 99 | M12 | 1.374 | 34.900 | 2.217 | 56.300 |
| RSHE45 | 1.772 | 45 | 2.126 | 54 | 1.890 | 48 | 4.213 | 107 | M12 | 1.374 | 34.900 | 2.217 | 56.300 |
| RSHE50 | 1.969 | 50 | 2.252 | 57.2 | 2.126 | 54 | 4.528 | 115 | M 16 | 1.500 | 38.100 | 2.469 | 62.700 |

**CONTINUED FROM ABOVE**

| PART NUMBER | M inch | M mm | W inch | W mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RSHE20 | 2.000 | 50.8 | 2.559 | 65 | 1.213 | 0.550 | 2,900 | 12800 | 1,480 | 6600 | SHE04 | GE20KRRB |
| RSHE25 | 2.000 | 50.8 | 2.756 | 70 | 1.455 | 0.660 | 3,150 | 14000 | 1,750 | 7800 | SHE05 | GE25KRRB |
| RSHE30 | 3.000 | 76.2 | 3.858 | 98 | 2.470 | 1.120 | 4,400 | 19500 | 2,550 | 11300 | SHE06 | GE30KRRB |
| RSHE35 | 3.252 | 82.6 | 4.055 | 103 | 3.330 | 1.510 | 5,750 | 25500 | 3,450 | 15300 | SHE07 | GE35KRRB |
| RSHE40 | 3.500 | 88.9 | 4.567 | 116 | 4.322 | 1.960 | 7,300 | 32500 | 4,600 | 20400 | SHE08 | GE40KRRB |
| RSHE45 | 3.752 | 95.3 | 4.724 | 120 | 4.983 | 2.260 | 7,300 | 32500 | 4,600 | 20400 | SHE09 | GE45KRRB |
| RSHE50 | 4.000 | 101.6 | 5.315 | 135 | 6.659 | 3.020 | 7,850 | 35000 | 5,200 | 23200 | SHE10 | GE50KRRB |

# Housing Units
## RSHEY SERIES

- Metric series
- Tapped base pillow block
- Standard seals
- Set screw locking




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

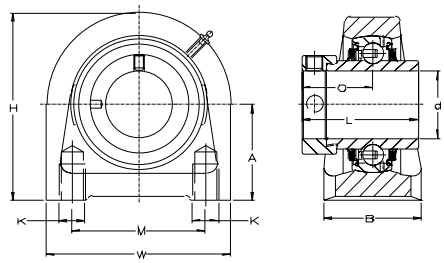
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | H inch | H mm | K THREADS | O inch | O mm | L inch | L mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RSHEY20 | 0.787 | 20 | 1.311 | 33.3 | 1.260 | 32 | 2.520 | 64 | M 8 | 0.721 | 18.300 | 0.984 | 25.000 |
| RSHEY25 | 0.984 | 25 | 1.437 | 36.5 | 1.417 | 36 | 2.756 | 70 | M 10 | 0.772 | 19.600 | 1.343 | 34.100 |
| RSHEY30 | 1.181 | 30 | 1.689 | 42.9 | 1.575 | 40 | 3.228 | 82 | M 10 | 0.874 | 22.200 | 1.500 | 38.100 |
| RSHEY35 | 1.378 | 35 | 1.874 | 47.6 | 1.772 | 45 | 3.661 | 93 | M 10 | 1.000 | 25.400 | 1.689 | 42.900 |
| RSHEY40 | 1.575 | 40 | 1.937 | 49.2 | 1.890 | 48 | 3.898 | 99 | M12 | 1.189 | 30.200 | 1.937 | 49.200 |
| RSHEY45 | 1.772 | 45 | 2.126 | 54 | 1.890 | 48 | 4.213 | 107 | M12 | 1.189 | 30.200 | 1.937 | 49.200 |
| RSHEY50 | 1.969 | 50 | 2.252 | 57.2 | 2.126 | 54 | 4.528 | 115 | M 16 | 1.284 | 32.600 | 2.032 | 51.600 |

**CONTINUED FROM ABOVE**

| PART NUMBER | M inch | M mm | W inch | W mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RSHEY20 | 2.000 | 50.8 | 2.559 | 65 | 1.279 | 0.580 | 2,900 | 12800 | 1,480 | 6600 | SHE04 | GYE20KRRB |
| RSHEY25 | 2.000 | 50.8 | 2.756 | 70 | 1.566 | 0.710 | 3,150 | 14000 | 1,750 | 7800 | SHE05 | GYE25KRRB |
| RSHEY30 | 3.000 | 76.2 | 3.858 | 98 | 2.580 | 1.170 | 4,400 | 19500 | 2,550 | 11300 | SHE06 | GYE30KRRB |
| RSHEY35 | 3.252 | 82.6 | 4.055 | 103 | 3.462 | 1.570 | 5,750 | 25500 | 3,450 | 15300 | SHE07 | GYE35KRRB |
| RSHEY40 | 3.500 | 88.9 | 4.567 | 116 | 4.123 | 1.870 | 7,300 | 32500 | 4,600 | 20400 | SHE08 | GYE40KRRB |
| RSHEY45 | 3.752 | 95.3 | 4.724 | 120 | 5.226 | 2.370 | 7,300 | 32500 | 4,600 | 20400 | SHE09 | GYE45KRRB |
| RSHEY50 | 4.000 | 101.6 | 5.315 | 135 | 6.593 | 2.990 | 7,850 | 35000 | 5,200 | 23200 | SHE10 | GYE50KRRB |

# Tapped Base Housing Units
## TSHE SERIES

- Metric series
- Tapped base pillow
- Tri-ply P3 seals
- Eccentric locking collar
- Metric tapped balls




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

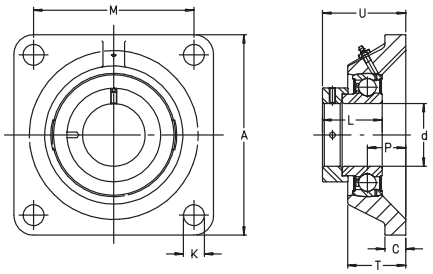
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | H inch | H mm | K inch | O inch | O mm | L inch | L mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TSHE20 | 0.787 | 20 | 1.311 | 33.3 | 1.260 | 32 | 2.520 | 64 | M 8 | 1.047 | 26.600 | 1.720 | 43.700 |
| TSHE25 | 0.984 | 25 | 1.437 | 36.5 | 1.417 | 36 | 2.756 | 70 | M 10 | 1.059 | 26.900 | 1.748 | 44.400 |
| TSHE30 | 1.181 | 30 | 1.689 | 42.9 | 1.575 | 40 | 3.228 | 82 | M 10 | 1.185 | 30.100 | 1.906 | 48.400 |
| TSHE35 | 1.378 | 35 | 1.874 | 47.6 | 1.772 | 45 | 3.661 | 93 | M 10 | 1.272 | 32.300 | 3.252 | 82.600 |
| TSHE40 | 1.575 | 40 | 1.937 | 49.2 | 1.890 | 48 | 3.898 | 99 | M12 | 1.374 | 34.900 | 2.217 | 56.300 |
| TSHE45 | 1.772 | 45 | 2.126 | 54 | 1.890 | 48 | 4.016 | 102 | M12 | 1.374 | 34.900 | 2.217 | 56.300 |
| TSHE50 | 1.969 | 50 | 2.252 | 57.2 | 2.126 | 54 | 4.528 | 115 | M 16 | 1.500 | 38.100 | 2.469 | 62.700 |
| TSHE55 | 2.165 | 55 | 2.520 | 64 | 2.362 | 60 | 4.921 | 125 | M 16 | 1.717 | 43.600 | 2.811 | 71.400 |
| TSHE60 | 2.362 | 60 | 2.752 | 69.9 | 2.362 | 60 | 5.512 | 140 | M 16 | 1.843 | 46.800 | 3.063 | 77.800 |

**CONTINUED FROM ABOVE**

| PART NUMBER | M inch | M mm | W inch | W mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TSHE20 | 2.000 | 50.8 | 2.559 | 65 | 1.21 | 0.55 | 2900 | 12800 | 1480 | 6600 | SHE04 | GE20KPPB3 |
| TSHE25 | 2.000 | 50.8 | 2.756 | 70 | 1.46 | 0.66 | 3150 | 14000 | 1750 | 7800 | SHE05 | GE25KPPB3 |
| TSHE30 | 3.000 | 76.2 | 3.858 | 98 | 2.49 | 1.13 | 4400 | 19500 | 2550 | 11300 | SHE06 | GE30KPPB3 |
| TSHE35 | 3.252 | 82.6 | 4.055 | 103 | 3.35 | 1.52 | 5750 | 25500 | 3450 | 15300 | SHE07 | GE35KPPB3 |
| TSHE40 | 3.500 | 88.9 | 4.567 | 116 | 4.39 | 1.99 | 7300 | 32500 | 4450 | 19800 | SHE08 | GE40KPPB3 |
| TSHE45 | 3.752 | 95.3 | 4.724 | 120 | 5.09 | 2.31 | 7300 | 32500 | 4450 | 19800 | SHE09 | GE45KPPB3 |
| TSHE50 | 4.000 | 101.6 | 5.315 | 135 | 6.79 | 3.08 | 7850 | 35000 | 5200 | 23200 | SHE10 | GE50KPPB3 |
| TSHE55 | 4.646 | 118 | 5.906 | 150 | 7.92 | 3.59 | 9800 | 43500 | 6500 | 29000 | SHE11 | GE55KPPB3 |
| TSHE60 | 4.646 | 118 | 5.906 | 150 | 10.01 | 4.54 | 11800 | 52000 | 8100 | 36000 | SHE12 | GE60KPPB3 |

# Square Flange Housings
## PCJ SERIES

- 4 bolt mounting
- Eccentric locking collar
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

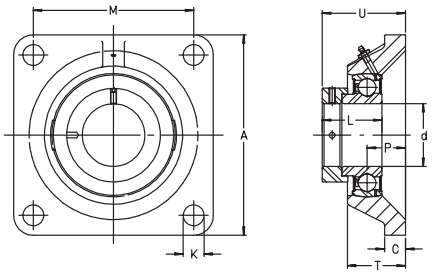



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCJ 12 | - | 0.472 | 12 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.126 | 28.6 | 2.126 | 54 | 1.103 | 0.5 |
| PCJ 1/2 | 1/2 | 0.500 | 12.7 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.126 | 28.6 | 2.126 | 54 | 1.103 | 0.5 |
| PCJ 15 | - | 0.591 | 15 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.126 | 28.6 | 2.126 | 54 | 1.103 | 0.5 |
| PCJ 5/8 | 5/8 | 0.625 | 15.875 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.126 | 28.6 | 2.126 | 54 | 1.103 | 0.5 |
| PCJ 17 | - | 0.669 | 17 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.126 | 28.6 | 2.126 | 54 | 1.103 | 0.5 |
| PCJ 3/4 | 3/4 | 0.750 | 19.1 | 3.386 | 86 | 0.453 | 11.5 | 0.453 | 11.5 | 1.221 | 31 | 2.500 | 63.5 | 1.544 | 0.7 |
| PCJ 20 | - | 0.787 | 20 | 3.386 | 86 | 0.394 | 10 | 0.453 | 11.5 | 1.221 | 31 | 2.500 | 63.5 | 1.544 | 0.7 |
| PCJ 7/8 | 7/8 | 0.875 | 22.2 | 3.760 | 95.5 | 0.512 | 13 | 0.453 | 11.5 | 1.221 | 31 | 2.756 | 70 | 1.985 | 0.9 |
| PCJ 25 | - | 0.984 | 25 | 3.740 | 95 | 0.433 | 11 | 0.453 | 11.5 | 1.221 | 31 | 2.756 | 70 | 1.985 | 0.9 |
| PCJ 1 | 1 | 1.000 | 25.4 | 3.760 | 95.5 | 0.512 | 13 | 0.453 | 11.5 | 1.221 | 31 | 2.756 | 70 | 1.985 | 0.9 |
| PCJ 1-1/16 | 1-1/16 | 1.063 | 26.9 | 4.272 | 108.5 | 0.512 | 13 | 0.453 | 11.5 | 1.406 | 35.7 | 3.248 | 82.5 | 2.867 | 1.3 |
| PCJ 1-1/8 | 1-1/8 | 1.125 | 28.6 | 4.272 | 108.5 | 0.512 | 13 | 0.453 | 11.5 | 1.406 | 35.7 | 3.248 | 82.5 | 2.867 | 1.3 |
| PCJ 30 | - | 1.181 | 30 | 4.252 | 108 | 0.472 | 12 | 0.453 | 11.5 | 1.406 | 35.7 | 3.248 | 82.5 | 2.867 | 1.3 |
| PCJ 1-3/16 | 1-3/16 | 1.188 | 30.2 | 4.272 | 108.5 | 0.512 | 13 | 0.453 | 11.5 | 1.406 | 35.7 | 3.248 | 82.5 | 2.867 | 1.3 |
| PCJ 1-1/4-206 | 1-1/4 | 1.250 | 31.8 | 4.272 | 108.5 | 0.512 | 13 | 0.453 | 11.5 | 1.406 | 35.7 | 3.248 | 82.5 | 2.867 | 1.3 |
| PCJ 1-1/4 | 1-1/4 | 1.250 | 31.8 | 4.665 | 118.5 | 0.531 | 13.5 | 0.551 | 14 | 1.532 | 38.9 | 3.622 | 92 | 3.528 | 1.6 |
| PCJ 1-3/8 | 1-3/8 | 1.375 | 34.9 | 4.665 | 118.5 | 0.531 | 13.5 | 0.551 | 14 | 1.532 | 38.9 | 3.622 | 92 | 3.528 | 1.6 |
| PCJ 35 | - | 1.378 | 35 | 4.646 | 118 | 0.492 | 12.5 | 0.551 | 14 | 1.532 | 38.9 | 3.622 | 92 | 3.528 | 1.6 |
| PCJ 1-7/16 | 1-7/16 | 1.438 | 36.5 | 4.665 | 118.5 | 0.531 | 13.5 | 0.551 | 14 | 1.532 | 38.9 | 3.622 | 92 | 3.528 | 1.6 |
| PCJ 1-1/2 | 1-1/2 | 1.500 | 38.1 | 5.118 | 130 | 0.571 | 14.5 | 0.551 | 14 | 1.721 | 43.7 | 3.996 | 101.5 | 4.851 | 2.2 |
| PCJ 40 | - | 1.575 | 40 | 5.118 | 130 | 0.512 | 13 | 0.551 | 14 | 1.721 | 43.7 | 3.996 | 101.5 | 4.851 | 2.2 |
| PCJ 1-3/4 | 1-3/4 | 1.750 | 44.5 | 5.413 | 137.5 | 0.571 | 14.5 | 0.551 | 14 | 1.721 | 43.7 | 4.134 | 105 | 5.292 | 2.4 |
| PCJ 45 | - | 1.772 | 45 | 5.413 | 137.5 | 0.512 | 13 | 0.551 | 14 | 1.721 | 43.7 | 4.134 | 105 | 5.292 | 2.4 |
| PCJ 1-15/16 | 1-15/16 | 1.938 | 49.2 | 5.630 | 143 | 0.591 | 15 | 0.669 | 17 | 1.721 | 43.7 | 4.370 | 111 | 6.395 | 2.9 |
| PCJ 50 | - | 1.969 | 50 | 5.630 | 143 | 0.512 | 13 | 0.551 | 14 | 1.721 | 43.7 | 4.370 | 111 | 6.395 | 2.9 |
| PCJ 2 | 2 | 2.000 | 50.8 | 6.398 | 162.5 | 0.669 | 17 | 0.669 | 17 | 1.906 | 48.4 | 5.118 | 130 | 9.041 | 4.1 |
| PCJ 55 | - | 2.165 | 55 | 6.398 | 162.5 | 0.669 | 17 | 0.669 | 17 | 1.906 | 48.4 | 5.118 | 130 | 9.041 | 4.1 |
| PCJ 2-3/16 | 2-3/16 | 2.188 | 55.6 | 6.398 | 162.5 | 0.669 | 17 | 0.669 | 17 | 1.906 | 48.4 | 5.118 | 130 | 9.041 | 4.1 |
| PCJ 60 | - | 2.362 | 60 | 6.890 | 175 | 0.630 | 16 | 0.709 | 18 | 2.091 | 53.1 | 5.630 | 143 | 11.025 | 5 |
| PCJ 2-7/16 | 2-7/16 | 2.438 | 61.9 | 6.909 | 175.5 | 0.689 | 17.5 | 0.709 | 18 | 2.091 | 53.1 | 5.630 | 143 | 11.025 | 5 |

# Square Flange Housings
## PCJ SERIES

- 4 bolt mounting
- Eccentric locking collar
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

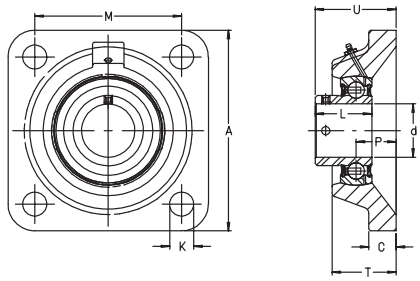



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| P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.669 | 17 | 0.945 | 24 | 1.539 | 39.1 | GRAE 12 NPPB | CJ 03 | 2150 | 9600 | 1070 | 4750 | PCJ 12 |
| 0.669 | 17 | 0.945 | 24 | 1.539 | 39.1 | GRA 008 NPPB | CJ 03 | 2150 | 9600 | 1070 | 4750 | PCJ 1/2 |
| 0.669 | 17 | 0.945 | 24 | 1.539 | 39.1 | GRAE 15 NPPB | CJ 03 | 2150 | 9600 | 1070 | 4750 | PCJ 15 |
| 0.669 | 17 | 0.945 | 24 | 1.539 | 39.1 | GRA 010 NPPB | CJ 03 | 2150 | 9600 | 1070 | 4750 | PCJ 5/8 |
| 0.669 | 17 | 0.945 | 24 | 1.539 | 39.1 | GRAE 17 NPPB | CJ 03 | 2150 | 9600 | 1070 | 4750 | PCJ 17 |
| 0.748 | 19 | 1.142 | 29 | 1.673 | 42.5 | GRA 012 NPPB | CJ 04 | 2900 | 12800 | 1480 | 6600 | PCJ 3/4 |
| 0.748 | 19 | 1.142 | 29 | 1.673 | 42.5 | GRAE 20 NPPB | CJ 04 | 2900 | 12800 | 1480 | 6600 | PCJ 20 |
| 0.748 | 19 | 1.201 | 30.5 | 1.673 | 42.5 | GRA 014 NPPB | CJ 05 | 3150 | 14000 | 1760 | 7800 | PCJ 7/8 |
| 0.748 | 19 | 1.142 | 29 | 1.673 | 42.5 | GRAE 25 NPPB | CJ 05 | 3150 | 14000 | 1760 | 7800 | PCJ 25 |
| 0.748 | 19 | 1.201 | 30.5 | 1.673 | 42.5 | GRA 100 NPPB | CJ 05 | 3150 | 14000 | 1760 | 7800 | PCJ 1 |
| 0.787 | 20 | 1.260 | 32 | 1.839 | 46.7 | GRA 101 NPPB | CJ 06 | 4350 | 19500 | 2550 | 11300 | PCJ 1-1/16 |
| 0.787 | 20 | 1.260 | 32 | 1.839 | 46.7 | GRA 102 NPPB | CJ 06 | 4350 | 19500 | 2550 | 11300 | PCJ 1-1/8 |
| 0.787 | 20 | 1.142 | 29 | 1.839 | 46.7 | GRAE 30 NPPB | CJ 06 | 4350 | 19500 | 2550 | 11300 | PCJ 30 |
| 0.787 | 20 | 1.260 | 32 | 1.839 | 46.7 | GRA 103 NPPB | CJ 06 | 4350 | 19500 | 2550 | 11300 | PCJ 1-3/16 |
| 0.787 | 20 | 1.260 | 32 | 1.839 | 46.7 | GRA 104 NPPB-206 | CJ 06 | 4350 | 19500 | 2550 | 11300 | PCJ 1-1/4-206 |
| 0.827 | 21 | 1.358 | 34.5 | 1.984 | 50.4 | GRA 104 NPPB | CJ 07 | 5800 | 25500 | 3450 | 15300 | PCJ 1-1/4 |
| 0.827 | 21 | 1.358 | 34.5 | 1.984 | 50.4 | GRA 106 NPPB | CJ 07 | 5800 | 25500 | 3450 | 15300 | PCJ 1-3/8 |
| 0.827 | 21 | 1.201 | 30.5 | 1.984 | 50.4 | GRAE 35 NPPB | CJ 07 | 5800 | 25500 | 3450 | 15300 | PCJ 35 |
| 0.827 | 21 | 1.358 | 34.5 | 1.984 | 50.4 | GRA 107 NPPB | CJ 07 | 5800 | 25500 | 3450 | 15300 | PCJ 1-7/16 |
| 0.945 | 24 | 1.496 | 38 | 2.232 | 56.7 | GRA 108 NPPB | CJ 08 | 7300 | 32500 | 4450 | 19800 | PCJ 1-1/2 |
| 0.945 | 24 | 1.358 | 34.5 | 2.232 | 56.7 | GRAE 40 NPPB | CJ 08 | 7300 | 32500 | 4450 | 19800 | PCJ 40 |
| 0.945 | 24 | 1.496 | 38 | 2.232 | 56.7 | GRA 112 NPPB | CJ 09 | 7400 | 32500 | 4600 | 20400 | PCJ 1-3/4 |
| 0.945 | 24 | 1.496 | 38 | 2.232 | 56.7 | GRAE 45 NPPB | CJ 09 | 7400 | 32500 | 4600 | 20400 | PCJ 45 |
| 1.102 | 28 | 1.654 | 42 | 2.390 | 60.7 | GRA 115 NPPB | CJ 10 | 7900 | 35000 | 5200 | 23200 | PCJ 1-15/16 |
| 1.102 | 28 | 1.535 | 39 | 2.390 | 60.7 | GRAE 50 NPPB | CJ 10 | 7900 | 35000 | 5200 | 23200 | PCJ 50 |
| 1.221 | 31 | 1.850 | 47 | 2.654 | 67.4 | GRA 200 NPPB | CJ 11 | 9800 | 43500 | 6600 | 29000 | PCJ 2 |
| 1.221 | 31 | 1.850 | 47 | 2.654 | 67.4 | GRAE 55 NPPB | CJ 11 | 9800 | 43500 | 6600 | 29000 | PCJ 55 |
| 1.221 | 31 | 1.850 | 47 | 2.654 | 67.4 | GRA 203 NPPB | CJ 11 | 9800 | 43500 | 6600 | 29000 | PCJ 2-3/16 |
| 1.339 | 34 | 1.811 | 46 | 2.898 | 73.6 | GRAE 60 NPPB | CJ 12 | 11800 | 52000 | 8100 | 36000 | PCJ 60 |
| 1.339 | 34 | 1.929 | 49 | 2.898 | 73.6 | GRA 207 NPPB | CJ 12 | 11800 | 52000 | 8100 | 36000 | PCJ 2-7/16 |

# Square Flanged Housings
## PCJY SERIES

- 4 bolt mounting
- Set screw shaft locking
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

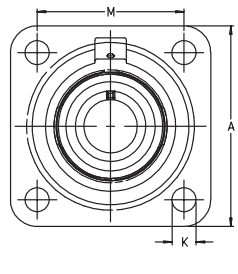


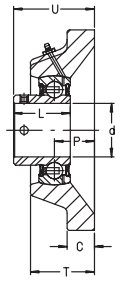

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| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCJY 12 | | 0.472 | 12 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 0.866 | 22 | 2.126 | 54 | 1.103 | 0.5 |
| PCJY 1/2 | 1/2 | 0.500 | 12.7 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 0.866 | 22 | 2.126 | 54 | 1.103 | 0.5 |
| PCJY 15 | - | 0.591 | 15 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 0.866 | 22 | 2.126 | 54 | 1.103 | 0.5 |
| PCJY 5/8 | 5/8 | 0.625 | 15.9 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 0.866 | 22 | 2.126 | 54 | 1.103 | 0.5 |
| PCJY 17 | - | 0.669 | 17 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 0.866 | 22 | 2.126 | 54 | 1.103 | 0.5 |
| PCJY 3/4 | 3/4 | 0.750 | 19.1 | 3.386 | 86 | 0.394 | 11.5 | 0.453 | 11.5 | 0.984 | 25 | 2.500 | 63.5 | 1.544 | 0.7 |
| PCJY 20 | - | 0.787 | 20 | 3.386 | 86 | 0.453 | 10 | 0.453 | 11.5 | 0.984 | 25 | 2.500 | 63.5 | 1.544 | 0.7 |
| PCJY 7/8 | 7/8 | 0.875 | 22.2 | 3.760 | 95.5 | 0.394 | 13 | 0.453 | 11.5 | 1.063 | 27 | 2.756 | 70 | 1.985 | 0.9 |
| PCJY 25 | - | 0.984 | 25 | 3.740 | 95 | 0.512 | 11 | 0.453 | 11.5 | 1.063 | 27 | 2.756 | 70 | 1.985 | 0.9 |
| PCJY 1 | 1 | 1.000 | 25.4 | 3.760 | 95.5 | 0.433 | 13 | 0.453 | 11.5 | 1.063 | 27 | 2.756 | 70 | 1.985 | 0.9 |
| PCJY 30 | - | 1.181 | 30 | 4.252 | 108 | 0.512 | 12 | 0.453 | 11.5 | 1.181 | 30 | 3.248 | 82.5 | 2.867 | 1.3 |
| PCJY 1-3/16 | 1-3/16 | 1.188 | 30.2 | 4.272 | 108.5 | 0.472 | 13 | 0.453 | 11.5 | 1.181 | 30 | 3.248 | 82.5 | 2.867 | 1.3 |
| PCJY 1-1/4 | 1-1/4 | 1.250 | 31.8 | 4.665 | 118.5 | 0.512 | 13.5 | 0.551 | 14 | 1.378 | 35 | 3.622 | 92 | 3.528 | 1.6 |
| PCJY 35 | - | 1.378 | 35 | 4.646 | 118 | 0.531 | 12.5 | 0.551 | 14 | 1.378 | 35 | 3.622 | 92 | 3.528 | 1.6 |
| PCJY 1-7/16 | 1-7/16 | 1.438 | 36.5 | 4.665 | 118.5 | 0.492 | 13.5 | 0.551 | 14 | 1.378 | 35 | 3.622 | 92 | 3.528 | 1.6 |
| PCJY 1-1/2 | 1-1/2 | 1.500 | 38.1 | 5.118 | 130 | 0.531 | 14.5 | 0.551 | 14 | 1.555 | 39.5 | 3.996 | 101.5 | 4.851 | 2.2 |
| PCJY 40 | - | 1.575 | 40 | 5.118 | 130 | 0.571 | 13 | 0.551 | 14 | 1.555 | 39.5 | 3.996 | 101.5 | 4.851 | 2.2 |
| PCJY 1-3/4 | 1-3/4 | 1.750 | 44.5 | 5.413 | 137.5 | 0.512 | 14.5 | 0.551 | 14 | 1.634 | 41.5 | 4.134 | 105 | 5.292 | 2.4 |
| PCJY 45 | - | 1.772 | 45 | 5.413 | 137.5 | 0.571 | 13 | 0.551 | 14 | 1.634 | 41.5 | 4.134 | 105 | 5.292 | 2.4 |
| PCJY 1-15/16 | 1-15/16 | 1.938 | 49.2 | 5.630 | 143 | 0.512 | 15 | 0.669 | 17 | 1.693 | 43 | 4.370 | 111 | 6.395 | 2.9 |
| PCJY 50 | 50 | 1.969 | 50 | 5.630 | 143 | 0.591 | 13 | 0.551 | 14 | 1.693 | 43 | 4.370 | 111 | 6.395 | 2.9 |

# Square Flanged Housings
## PCJY SERIES

- 4 bolt mounting
- Set screw shaft locking
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

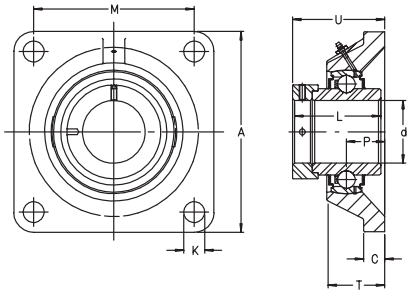



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| P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.669 | 17 | 0.945 | 24 | 1.299 | 33 | GAY12 NPPB | CJ 03 | 2150 | 9600 | 1070 | 4750 | PCJY 12 |
| 0.669 | 17 | 0.945 | 24 | 1.299 | 33 | GAY008 NPPB | CJ 03 | 2150 | 9600 | 1070 | 4750 | PCJY 1/2 |
| 0.669 | 17 | 0.945 | 24 | 1.299 | 33 | GAY15 NPPB | CJ 03 | 2150 | 9600 | 1070 | 4750 | PCJY 15 |
| 0.669 | 17 | 0.945 | 24 | 1.299 | 33 | GAY010 NPPB | CJ 03 | 2150 | 9600 | 1070 | 4750 | PCJY 5/8 |
| 0.669 | 17 | 0.945 | 24 | 1.299 | 33 | GAY17 NPPB | CJ 03 | 2150 | 9600 | 1070 | 4750 | PCJY 17 |
| 0.748 | 19 | 1.161 | 29.5 | 1.457 | 37 | GAY012 NPPB | CJ 04 | 2900 | 12800 | 1480 | 6600 | PCJY 3/4 |
| 0.748 | 19 | 1.142 | 29 | 1.457 | 37 | GAY20 NPPB | CJ 04 | 2900 | 12800 | 1480 | 6600 | PCJY 20 |
| 0.748 | 19 | 1.201 | 30.5 | 1.516 | 38.5 | GAY014 NPPB | CJ 05 | 3150 | 14000 | 1760 | 7800 | PCJY 7/8 |
| 0.748 | 19 | 1.142 | 29 | 1.516 | 38.5 | GAY25 NPPB | CJ 05 | 3150 | 14000 | 1760 | 7800 | PCJY 25 |
| 0.748 | 19 | 1.201 | 30.5 | 1.516 | 38.5 | GAY100 NPPB | CJ 05 | 3150 | 14000 | 1760 | 7800 | PCJY 1 |
| 0.787 | 20 | 1.142 | 29 | 1.614 | 41 | GAY30 NPPB | CJ 06 | 4350 | 19500 | 2550 | 11300 | PCJY 30 |
| 0.787 | 20 | 1.260 | 32 | 1.614 | 41 | GAY103 NPPB | CJ 06 | 4350 | 19500 | 2550 | 11300 | PCJY 1-3/16 |
| 0.827 | 21 | 1.358 | 34.5 | 1.831 | 46.5 | GAY104 NPPB | CJ 07 | 5800 | 25500 | 3450 | 15300 | PCJY 1-1/4 |
| 0.827 | 21 | 1.201 | 30.5 | 1.831 | 46.5 | GAY35 NPPB | CJ 07 | 5800 | 25500 | 3450 | 15300 | PCJY 35 |
| 0.827 | 21 | 1.358 | 34.5 | 1.831 | 46.5 | GAY107 NPPB | CJ 07 | 5800 | 25500 | 3450 | 15300 | PCJY 1-7/16 |
| 0.945 | 24 | 1.496 | 38 | 2.087 | 53 | GAY108 NPPB | CJ 08 | 7300 | 32500 | 4450 | 19800 | PCJY 1-1/2 |
| 0.945 | 24 | 1.358 | 34.5 | 2.087 | 53 | GAY40 NPPB | CJ 08 | 7300 | 32500 | 4450 | 19800 | PCJY 40 |
| 0.945 | 24 | 1.496 | 38 | 2.146 | 54.5 | GAY112 NPPB | CJ 09 | 7400 | 32500 | 4600 | 20400 | PCJY 1-3/4 |
| 0.945 | 24 | 1.496 | 38 | 2.146 | 54.5 | GAY45 NPPB | CJ 09 | 7400 | 32500 | 4600 | 20400 | PCJY 45 |
| 1.102 | 28 | 1.654 | 42 | 2.362 | 60 | GAY115 NPPB | CJ 10 | 7900 | 35000 | 5200 | 23200 | PCJY 1-15/16 |
| 1.102 | 28 | 1.535 | 39 | 2.362 | 60 | GAY50 NPPB | CJ 10 | 7900 | 35000 | 5200 | 23200 | PCJY 50 |

# Square Flange Housings
## RCJ SERIES



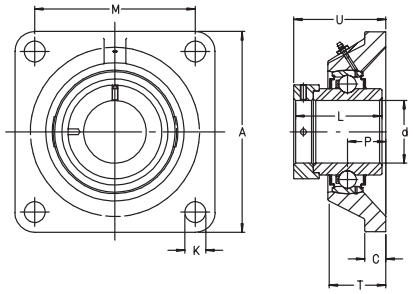

- 4 bolt mounting
- Eccentric locking collar
- Standard R seals
- Inch and metric
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJ 1/2 | 1/2 | 0.500 | 12.7 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.469 | 37.3 | 2.126 | 54 | 1.103 | 0.5 |
| RCJ 15 | - | 0.591 | 15 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.469 | 37.3 | 2.126 | 54 | 1.103 | 0.5 |
| RCJ 5/8 | 5/8 | 0.625 | 15.9 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.469 | 37.3 | 2.126 | 54 | 1.103 | 0.5 |
| RCJ 3/4 | 3/4 | 0.750 | 19.1 | 3.386 | 86 | 0.394 | 10 | 0.453 | 11.5 | 1.721 | 43.7 | 2.500 | 63.5 | 1.544 | 0.7 |
| RCJ 20 | - | 0.787 | 20 | 3.386 | 86 | 0.453 | 11.5 | 0.453 | 11.5 | 1.721 | 43.7 | 2.500 | 63.5 | 1.544 | 0.7 |
| RCJ 7/8 | 7/8 | 0.875 | 22.2 | 3.760 | 95.5 | 0.394 | 10 | 0.453 | 11.5 | 1.748 | 44.4 | 2.756 | 70 | 1.985 | 0.9 |
| RCJ 15/16 | 15/16 | 0.938 | 23.8 | 3.760 | 95.5 | 0.512 | 13 | 0.453 | 11.5 | 1.748 | 44.4 | 2.756 | 70 | 1.985 | 0.9 |
| RCJ 25 | - | 0.984 | 25 | 3.740 | 95 | 0.512 | 13 | 0.453 | 11.5 | 1.748 | 44.4 | 2.756 | 70 | 1.985 | 0.9 |
| RCJ 1 | 1 | 1.000 | 25.4 | 3.760 | 95.5 | 0.433 | 11 | 0.453 | 11.5 | 1.748 | 44.4 | 2.756 | 70 | 1.985 | 0.9 |
| RCJ 1-1/8 | 1-1/8 | 1.125 | 28.6 | 4.272 | 108.5 | 0.512 | 13 | 0.453 | 11.5 | 1.906 | 48.4 | 3.248 | 82.5 | 2.867 | 1.3 |
| RCJ 30 | - | 1.181 | 30 | 4.252 | 108 | 0.512 | 13 | 0.453 | 11.5 | 1.906 | 48.4 | 3.248 | 82.5 | 2.867 | 1.3 |
| RCJ 1-3/16 | 1-3/16 | 1.188 | 30.2 | 4.272 | 108.5 | 0.472 | 12 | 0.453 | 11.5 | 1.906 | 48.4 | 3.248 | 82.5 | 2.867 | 1.3 |
| RCJ 1-1/4 | 1-1/4 | 1.250 | 31.8 | 4.665 | 118.5 | 0.512 | 13 | 0.551 | 14 | 2.012 | 51.1 | 3.622 | 92 | 3.528 | 1.6 |
| RCJ 1-3/8 | 1-3/8 | 1.375 | 34.9 | 4.665 | 118.5 | 0.512 | 13 | 0.551 | 14 | 2.012 | 51.1 | 3.622 | 92 | 3.528 | 1.6 |
| RCJ 35 | - | 1.378 | 35 | 4.646 | 118 | 0.531 | 13.5 | 0.551 | 14 | 2.012 | 51.1 | 3.622 | 92 | 3.528 | 1.6 |
| RCJ 1-7/16 | 1-7/16 | 1.438 | 36.5 | 4.665 | 118.5 | 0.531 | 13.5 | 0.551 | 14 | 2.012 | 51.1 | 3.622 | 92 | 3.528 | 1.6 |
| RCJ 1-1/2 | 1-1/2 | 1.500 | 38.1 | 5.118 | 130 | 0.492 | 12.5 | 0.551 | 14 | 2.217 | 56.3 | 3.996 | 101.5 | 4.851 | 2.2 |
| RCJ 40 | - | 1.575 | 40 | 5.118 | 130 | 0.531 | 13.5 | 0.551 | 14 | 2.217 | 56.3 | 3.996 | 101.5 | 4.851 | 2.2 |
| RCJ 1-5/8 | 1-5/8 | 1.625 | 41.3 | 5.413 | 137.5 | 0.571 | 14.5 | 0.551 | 14 | 2.217 | 56.3 | 4.134 | 105 | 5.292 | 2.4 |
| RCJ 1-11/16 | 1-11/16 | 1.688 | 42.9 | 5.413 | 137.5 | 0.512 | 13 | 0.551 | 14 | 2.217 | 56.3 | 4.134 | 105 | 5.292 | 2.4 |
| RCJ 1-3/4 | 1-3/4 | 1.750 | 44.5 | 5.413 | 137.5 | 0.571 | 14.5 | 0.551 | 14 | 2.217 | 56.3 | 4.134 | 105 | 5.292 | 2.4 |
| RCJ 45 | - | 1.772 | 45 | 5.413 | 137.5 | 0.571 | 14.5 | 0.551 | 14 | 2.217 | 56.3 | 4.134 | 105 | 5.292 | 2.4 |
| RCJ 1-15/16 | 1-15/16 | 1.938 | 49.2 | 5.630 | 143 | 0.571 | 14.5 | 0.669 | 17 | 2.469 | 62.7 | 4.370 | 111 | 6.395 | 2.9 |
| RCJ 50 | - | 1.969 | 50 | 5.630 | 143 | 0.512 | 13 | 0.551 | 14 | 2.469 | 62.7 | 4.370 | 111 | 6.395 | 2.9 |
| RCJ 2 | 2 | 2.000 | 50.8 | 6.398 | 162.5 | 0.591 | 15 | 0.669 | 17 | 2.811 | 71.4 | 5.118 | 130 | 9.041 | 4.1 |
| RCJ 55 | - | 2.165 | 55 | 6.398 | 162.5 | 0.512 | 13 | 0.669 | 17 | 2.811 | 71.4 | 5.118 | 130 | 9.041 | 4.1 |
| RCJ 2-3/16 | 2-3/16 | 2.188 | 55.6 | 6.398 | 162.5 | 0.669 | 17 | 0.669 | 17 | 2.811 | 71.4 | 5.118 | 130 | 9.041 | 4.1 |
| RCJ 60 | - | 2.362 | 60 | 6.890 | 175 | 0.669 | 17 | 0.709 | 18 | 3.063 | 77.8 | 5.630 | 143 | 11.025 | 5 |
| RCJ 2-7/16 | 2-7/16 | 2.438 | 61.9 | 6.890 | 175 | 0.669 | 17 | 0.709 | 18 | 3.063 | 77.8 | 5.630 | 143 | 11.025 | 5 |
| RCJ 65 | - | 2.559 | 65 | 7.402 | 188 | 0.630 | 16 | 0.709 | 18 | 2.602 | 66.1 | 5.906 | 150 | 13.473 | 6.11 |
| RCJ 70 | - | 2.756 | 70 | 7.402 | 188 | 0.689 | 17.5 | 0.709 | 18 | 2.602 | 66.1 | 5.906 | 150 | 13.010 | 5.9 |
| RCJ 75 | - | 2.953 | 75 | 7.756 | 197 | 0.709 | 18 | 0.906 | 23 | 2.642 | 67.1 | 6.024 | 153 | 14.333 | 6.5 |
| RCJ 80 | - | 3.150 | 80 | 7.756 | 197 | 0.709 | 18 | 0.906 | 23 | 2.795 | 71 | 6.024 | 153 | 13.010 | 6.9 |

# Square Flange Housings
## RCJ SERIES

- 4 bolt mounting
- Eccentric locking collar
- Standard R seals
- Inch and metric
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

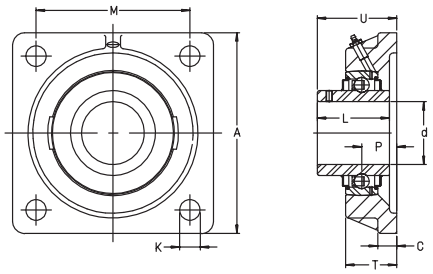



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.669 | 17 | 0.945 | 24 | 1.591 | 40.4 | G1008 KRRB | CJ 03 | 2150 | 9600 | 1070 | 4750 | RCJ 1/2 |
| 0.669 | 17 | 0.945 | 24 | 1.591 | 40.4 | GE15 KRRB | CJ 03 | 2150 | 9600 | 1070 | 4750 | RCJ 15 |
| 0.669 | 17 | 0.945 | 24 | 1.591 | 40.4 | G1010 KRRB | CJ 03 | 2150 | 9600 | 1070 | 4750 | RCJ 5/8 |
| 0.748 | 19 | 1.142 | 29 | 1.795 | 45.6 | G1012 KRRB | CJ 04 | 2900 | 12800 | 1480 | 6600 | RCJ 3/4 |
| 0.748 | 19 | 1.142 | 29 | 1.795 | 45.6 | GE20 KRRB | CJ 04 | 2900 | 12800 | 1480 | 6600 | RCJ 20 |
| 0.748 | 19 | 1.201 | 30.5 | 1.807 | 45.9 | G1014 KRRB | CJ 05 | 3150 | 14000 | 1760 | 7800 | RCJ 7/8 |
| 0.748 | 19 | 1.201 | 30.5 | 1.807 | 45.9 | G1015KRRB | CJ 05 | 3150 | 14000 | 1760 | 7800 | RCJ 15/16 |
| 0.748 | 19 | 1.142 | 29 | 1.807 | 45.9 | GE25 KRRB | CJ 05 | 3150 | 14000 | 1760 | 7800 | RCJ 25 |
| 0.748 | 19 | 1.201 | 30.5 | 1.807 | 45.9 | G1100 KRRB | CJ 05 | 3150 | 14000 | 1760 | 7800 | RCJ 1 |
| 0.787 | 20 | 1.260 | 32 | 1.972 | 50.1 | G1102 KRRB | CJ 06 | 4350 | 19500 | 2550 | 11300 | RCJ 1-1/8 |
| 0.787 | 20 | 1.142 | 29 | 1.972 | 50.1 | GE30 KRRB | CJ 06 | 4350 | 19500 | 2550 | 11300 | RCJ 30 |
| 0.787 | 20 | 1.260 | 32 | 1.972 | 50.1 | G1103 KRRB | CJ 06 | 4350 | 19500 | 2550 | 11300 | RCJ 1-3/16 |
| 0.827 | 21 | 1.358 | 34.5 | 2.098 | 53.3 | G1104 KRRB | CJ 07 | 5800 | 25500 | 3450 | 15300 | RCJ 1-1/4 |
| 0.827 | 21 | 1.358 | 34.5 | 2.098 | 53.3 | G1106 KRRB | CJ 07 | 5800 | 25500 | 3450 | 15300 | RCJ 1-3/8 |
| 0.827 | 21 | 1.201 | 30.5 | 2.098 | 53.3 | GE35 KRRB | CJ 07 | 5800 | 25500 | 3450 | 15300 | RCJ 35 |
| 0.827 | 21 | 1.358 | 34.5 | 2.098 | 53.3 | G1107 KRRB | CJ 07 | 5800 | 25500 | 3450 | 15300 | RCJ 1-7/16 |
| 0.945 | 24 | 1.496 | 38 | 2.319 | 58.9 | G1108 KRRB | CJ 08 | 7300 | 32500 | 4450 | 19800 | RCJ 1-1/2 |
| 0.945 | 24 | 1.358 | 34.5 | 2.319 | 58.9 | GE40 KRRB | CJ 08 | 7300 | 32500 | 4450 | 19800 | RCJ 40 |
| 0.945 | 24 | 1.496 | 38 | 2.319 | 58.9 | G1110KRRB | CJ 09 | 7400 | 32500 | 4600 | 20400 | RCJ 1-5/8 |
| 0.945 | 24 | 1.496 | 38 | 2.319 | 58.9 | G1111KRRB | CJ 09 | 7400 | 32500 | 4600 | 20400 | RCJ 1-11/16 |
| 0.945 | 24 | 1.496 | 38 | 2.319 | 58.9 | G1112 KRRB | CJ 09 | 7400 | 32500 | 4600 | 20400 | RCJ 1-3/4 |
| 0.945 | 24 | 1.496 | 38 | 2.319 | 58.9 | GE45 KRRB | CJ 09 | 7400 | 32500 | 4600 | 20400 | RCJ 45 |
| 1.102 | 28 | 1.654 | 42 | 2.602 | 66.1 | G1115 KRRB | CJ 10 | 7900 | 35000 | 5200 | 23200 | RCJ 1-15/16 |
| 1.102 | 28 | 1.535 | 39 | 2.602 | 66.1 | GE50 KRRB | CJ 10 | 7900 | 35000 | 5200 | 23200 | RCJ 50 |
| 1.221 | 31 | 1.850 | 47 | 2.937 | 74.6 | G1200 KRRB | CJ 11 | 9800 | 43500 | 6600 | 29000 | RCJ 2 |
| 1.220 | 31 | 1.850 | 47 | 2.937 | 74.6 | GE55 KRRB | CJ 11 | 9800 | 43500 | 6600 | 29000 | RCJ 55 |
| 1.221 | 31 | 1.850 | 47 | 2.937 | 74.6 | G1203 KRRB | CJ 11 | 9800 | 43500 | 6600 | 29000 | RCJ 2-3/16 |
| 1.339 | 34 | 1.811 | 46 | 3.181 | 80.8 | GE60 KRRB | CJ 12 | 11800 | 52000 | 8100 | 36000 | RCJ 60 |
| 1.339 | 34 | 1.929 | 49 | 3.181 | 80.8 | G1207 KRRB | CJ 12 | 11800 | 52000 | 8100 | 36000 | RCJ 2-7/16 |
| 1.496 | 38 | 2.047 | 52 | 3.252 | 82.6 | GE65 KRRB | CJ14 | 14000 | 62000 | 9900 | 44000 | RCJ 65 |
| 1.496 | 38 | 2.047 | 52 | 3.252 | 82.6 | GE70 KRRB | CJ14 | 14000 | 62000 | 9900 | 44000 | RCJ 70 |
| 1.626 | 41.3 | 2.244 | 57 | 3.421 | 86.9 | GE75 KRRB | CJ15 | 14000 | 62000 | 10100 | 44500 | RCJ 75 |
| 1.626 | 41.3 | 2.197 | 56 | 3.500 | 88.9 | GE80 KRRB | CJ16 | 16100 | 72000 | 12200 | 54000 | RCJ 80 |

# Square Flanged Housings
## RCJY SERIES

- Four bolt mounting
- Set screw shaft locking
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

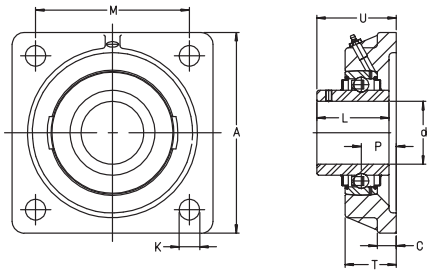



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJY 1/2 | 1/2 | 0.500 | 12.7 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.079 | 27.4 | 2.126 | 54 | 1.103 | 0.5 |
| RCJY 15 | - | 0.591 | 15 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.079 | 27.4 | 2.126 | 54 | 1.103 | 0.5 |
| RCJY 5/8 | 5/8 | 0.625 | 15.9 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.079 | 27.4 | 2.126 | 54 | 1.103 | 0.5 |
| RCJY 17 | - | 0.669 | 17 | 2.992 | 76 | 0.394 | 10 | 0.453 | 11.5 | 1.079 | 27.4 | 2.126 | 54 | 1.103 | 0.5 |
| RCJY 3/4 | 3/4 | 0.750 | 19.05 | 3.386 | 86 | 0.453 | 11.5 | 0.453 | 11.5 | 1.221 | 31 | 2.500 | 63.5 | 1.544 | 0.7 |
| RCJY 20 | - | 0.787 | 20 | 3.386 | 86 | 0.394 | 10 | 0.453 | 11.5 | 1.221 | 31 | 2.500 | 63.5 | 1.544 | 0.7 |
| RCJY 7/8 | 7/8 | 0.875 | 22.2 | 3.760 | 95.5 | 0.512 | 13 | 0.453 | 11.5 | 1.343 | 34.1 | 2.756 | 70 | 1.985 | 0.9 |
| RCJY 15/16 | 15/16 | 0.938 | 23.8 | 3.760 | 95.5 | 0.512 | 13 | 0.453 | 11.5 | 1.343 | 34.1 | 2.756 | 70 | 1.985 | 0.9 |
| RCJY 25 | - | 0.984 | 25 | 3.740 | 95 | 0.433 | 11 | 0.453 | 11.5 | 1.343 | 34.1 | 2.756 | 70 | 1.985 | 0.9 |
| RCJY 1 | 1 | 1.000 | 25.4 | 3.760 | 95.5 | 0.512 | 13 | 0.453 | 11.5 | 1.343 | 34.1 | 2.756 | 70 | 1.985 | 0.9 |
| RCJY 1-1/8 | 1-1/8 | 1.125 | 28.6 | 4.272 | 108.5 | 0.512 | 13 | 0.453 | 11.5 | 1.500 | 38.1 | 3.248 | 82.5 | 2.867 | 1.3 |
| RCJY 30 | - | 1.181 | 30 | 4.252 | 108 | 0.472 | 12 | 0.453 | 11.5 | 1.500 | 38.1 | 3.248 | 82.5 | 2.867 | 1.3 |
| RCJY 1-3/16 | 1-3/16 | 1.188 | 30.2 | 4.272 | 108.5 | 0.512 | 13 | 0.453 | 11.5 | 1.500 | 38.1 | 3.248 | 82.5 | 2.867 | 1.3 |
| RCJY 1-1/4-206 | 1-1/4 | 1.250 | 31.8 | 4.272 | 108.5 | 0.512 | 13 | 0.453 | 11.5 | 1.500 | 38.1 | 3.248 | 82.5 | 2.867 | 1.3 |
| RCJY 1-1/4 | 1-1/4 | 1.250 | 31.8 | 4.665 | 118.5 | 0.531 | 13.5 | 0.551 | 14 | 1.689 | 42.9 | 3.622 | 92 | 3.528 | 1.6 |
| RCJY 1-3/8 | 1-3/8 | 1.375 | 34.9 | 4.665 | 118.5 | 0.531 | 13.5 | 0.551 | 14 | 1.689 | 42.9 | 3.622 | 92 | 3.528 | 1.6 |
| RCJY 35 | - | 1.378 | 35 | 4.646 | 118 | 0.492 | 12.5 | 0.551 | 14 | 1.689 | 42.9 | 3.622 | 92 | 3.528 | 1.6 |
| RCJY 1-7/16 | 1-7/16 | 1.438 | 36.5 | 4.665 | 118.5 | 0.531 | 13.5 | 0.551 | 14 | 1.689 | 42.9 | 3.622 | 92 | 3.528 | 1.6 |
| RCJY 1-1/2 | 1-1/2 | 1.500 | 38.1 | 5.118 | 130 | 0.571 | 14.5 | 0.551 | 14 | 1.937 | 49.2 | 3.996 | 101.5 | 4.851 | 2.2 |
| RCJY 40 | - | 1.575 | 40 | 5.118 | 130 | 0.512 | 13 | 0.551 | 14 | 1.937 | 49.2 | 3.996 | 101.5 | 4.851 | 2.2 |
| RCJY 1-5/8 | 1-5/8 | 1.625 | 41.3 | 5.413 | 137.5 | 0.571 | 14.5 | 0.551 | 14 | 1.937 | 49.2 | 4.134 | 105 | 5.292 | 2.4 |
| RCJY 1-11/16 | 1-11/16 | 1.688 | 42.9 | 5.413 | 137.5 | 0.571 | 14.5 | 0.551 | 14 | 1.937 | 49.2 | 4.134 | 105 | 5.292 | 2.4 |
| RCJY 1-3/4 | 1-3/4 | 1.750 | 44.5 | 5.413 | 137.5 | 0.571 | 14.5 | 0.551 | 14 | 1.937 | 49.2 | 4.134 | 105 | 5.292 | 2.4 |
| RCJY 45 | - | 1.772 | 45 | 5.413 | 137.5 | 0.512 | 13 | 0.551 | 14 | 1.937 | 49.2 | 4.134 | 105 | 5.292 | 2.4 |
| RCJY 1-15/16 | 1-15/16 | 1.938 | 49.2 | 5.630 | 143 | 0.591 | 15 | 0.669 | 17 | 2.032 | 51.6 | 4.370 | 111 | 6.395 | 2.9 |
| RCJY 50 | - | 1.969 | 50 | 5.630 | 143 | 0.512 | 13 | 0.551 | 14 | 2.032 | 51.6 | 4.370 | 111 | 6.395 | 2.9 |
| RCJY 2 | 2 | 2.000 | 50.8 | 6.398 | 162.5 | 0.669 | 17 | 0.669 | 17 | 2.189 | 55.6 | 5.118 | 130 | 9.041 | 4.1 |
| RCJY 55 | - | 2.165 | 55 | 6.398 | 162.5 | 0.669 | 17 | 0.669 | 17 | 2.189 | 55.6 | 5.118 | 130 | 9.041 | 4.1 |
| RCJY 2-3/16 | 2-3/16 | 2.188 | 55.6 | 6.398 | 162.5 | 0.669 | 17 | 0.669 | 17 | 2.189 | 55.6 | 5.118 | 130 | 9.041 | 4.1 |
| RCJY 60 | - | 2.362 | 60 | 6.890 | 175 | 0.630 | 16 | 0.709 | 18 | 2.563 | 65.1 | 5.630 | 143 | 11.025 | 5 |
| RCJY 2-7/16 | 2-7/16 | 2.438 | 61.9 | 6.909 | 175.5 | 0.689 | 17.5 | 0.709 | 18 | 2.563 | 65.1 | 5.630 | 143 | 11.025 | 5 |
| RCJY 65 | - | 2.559 | 65 | 7.402 | 188 | 0.709 | 18 | 0.709 | 18 | 2.937 | 74.6 | 5.906 | 150 | 12.458 | 5.7 |
| RCJY 70 | - | 2.756 | 70 | 7.402 | 188 | 0.709 | 18 | 0.709 | 18 | 2.937 | 74.6 | 5.906 | 150 | 11.797 | 5.4 |
| RCJY 75 | - | 2.953 | 75 | 7.874 | 200 | 0.866 | 22 | 0.906 | 23 | 3.063 | 77.8 | 6.024 | 153 | 13.318 | 6 |
| RCJY 80 | - | 3.150 | 80 | 7.756 | 197 | 0.787 | 20 | 0.906 | 23 | 3.252 | 82.6 | 6.024 | 153 | 15.038 | 6.8 |

# Square Flanged Housings
## RCJY SERIES

- Four bolt mounting
- Set screw shaft locking
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

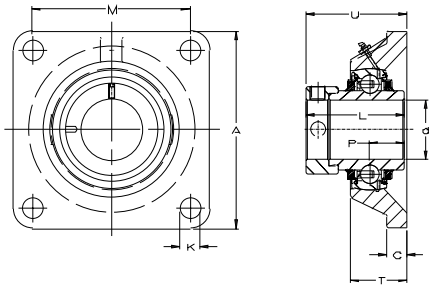



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.669 | 17 | 0.945 | 24 | 1.295 | 32.9 | GY1008 KRRB | CJ 03 | 2150 | 9600 | 1070 | 4750 | RCJY 1/2 |
| 0.669 | 17 | 0.945 | 24 | 1.295 | 32.9 | GYE15 KRRB | CJ 03 | 2150 | 9600 | 1070 | 4750 | RCJY 15 |
| 0.669 | 17 | 0.945 | 24 | 1.295 | 32.9 | GY1010 KRRB | CJ 03 | 2150 | 9600 | 1070 | 4750 | RCJY 5/8 |
| 0.669 | 17 | 0.945 | 24 | 1.295 | 32.9 | GYE17 KRRB | CJ 03 | 2150 | 9600 | 1070 | 4750 | RCJY 17 |
| 0.748 | 19 | 1.142 | 29 | 1.469 | 37.3 | GY1012 KRRB | CJ 04 | 2900 | 12800 | 1480 | 6600 | RCJY 3/4 |
| 0.748 | 19 | 1.142 | 29 | 1.469 | 37.3 | GYE20 KRRB | CJ 04 | 2900 | 12800 | 1480 | 6600 | RCJY 20 |
| 0.748 | 19 | 1.201 | 30.5 | 1.528 | 38.8 | GY1014 KRRB | CJ 05 | 3150 | 14000 | 1760 | 7800 | RCJY 7/8 |
| 0.748 | 19 | 1.201 | 30.5 | 1.528 | 38.8 | GY1015 KRRB | CJ 05 | 3150 | 14000 | 1760 | 7800 | RCJY 15/16 |
| 0.748 | 19 | 1.142 | 29 | 1.528 | 38.8 | GYE25 KRRB | CJ 05 | 3150 | 14000 | 1760 | 7800 | RCJY 25 |
| 0.748 | 19 | 1.201 | 30.5 | 1.528 | 38.8 | GY1100 KRRB | CJ 05 | 3150 | 14000 | 1760 | 7800 | RCJY 1 |
| 0.787 | 20 | 1.260 | 32 | 1.661 | 42.2 | GY1102 KRRB | CJ 06 | 4350 | 19500 | 2550 | 11300 | RCJY 1-1/8 |
| 0.787 | 20 | 1.142 | 29 | 1.661 | 42.2 | GYE30 KRRB | CJ 06 | 4350 | 19500 | 2550 | 11300 | RCJY 30 |
| 0.787 | 20 | 1.260 | 32 | 1.661 | 42.2 | GY1103 KRRB | CJ 06 | 4350 | 19500 | 2550 | 11300 | RCJY 1-3/16 |
| 0.787 | 20 | 1.260 | 32 | 1.661 | 42.2 | GY1104 KRRB-206 | CJ 06 | 4350 | 19500 | 2550 | 11300 | RCJY 1-1/4-206 |
| 0.827 | 21 | 1.358 | 34.5 | 1.827 | 46.4 | GY1104 KRRB | CJ 07 | 5800 | 25500 | 3450 | 15300 | RCJY 1-1/4 |
| 0.827 | 21 | 1.358 | 34.5 | 1.827 | 46.4 | GY1106 KRRB | CJ 07 | 5800 | 25500 | 3450 | 15300 | RCJY 1-3/8 |
| 0.827 | 21 | 1.201 | 30.5 | 1.827 | 46.4 | GYE35 KRRB | CJ 07 | 5800 | 25500 | 3450 | 15300 | RCJY 35 |
| 0.827 | 21 | 1.358 | 34.5 | 1.827 | 46.4 | GY1107 KRRB | CJ 07 | 5800 | 25500 | 3450 | 15300 | RCJY 1-7/16 |
| 0.945 | 24 | 1.496 | 38 | 2.134 | 54.2 | GY1108 KRRB | CJ 08 | 7300 | 32500 | 4450 | 19800 | RCJY 1-1/2 |
| 0.945 | 24 | 1.358 | 34.5 | 2.134 | 54.2 | GYE40 KRRB | CJ 08 | 7300 | 32500 | 4450 | 19800 | RCJY 40 |
| 0.945 | 24 | 1.496 | 38 | 2.134 | 54.2 | GY1110 KRRB | CJ 09 | 7400 | 32500 | 4600 | 20400 | RCJY 1-5/8 |
| 0.945 | 24 | 1.496 | 38 | 2.134 | 54.2 | GY1111 KRRB | CJ 09 | 7400 | 32500 | 4600 | 20400 | RCJY 1-11/16 |
| 0.945 | 24 | 1.496 | 38 | 2.134 | 54.2 | GY1112 KRRB | CJ 09 | 7400 | 32500 | 4600 | 20400 | RCJY 1-3/4 |
| 0.945 | 24 | 1.496 | 38 | 2.134 | 54.2 | GYE45 KRRB | CJ 09 | 7400 | 32500 | 4600 | 20400 | RCJY 45 |
| 1.102 | 28 | 1.654 | 42 | 2.386 | 60.6 | GY1115 KRRB | CJ 10 | 7900 | 35000 | 5200 | 23200 | RCJY 1-15/16 |
| 1.102 | 28 | 1.535 | 39 | 2.386 | 60.6 | GYE50 KRRB | CJ 10 | 7900 | 35000 | 5200 | 23200 | RCJY 50 |
| 1.221 | 31 | 1.850 | 47 | 2.535 | 64.4 | GY1200 KRRB | CJ 11 | 9800 | 43500 | 6600 | 29000 | RCJY 2 |
| 1.221 | 31 | 1.850 | 47 | 2.535 | 64.4 | GYE55 KRRB | CJ 11 | 9800 | 43500 | 6600 | 29000 | RCJY 55 |
| 1.221 | 31 | 1.850 | 47 | 2.535 | 64.4 | GY1203 KRRB | CJ 11 | 9800 | 43500 | 6600 | 29000 | RCJY 2-3/16 |
| 1.339 | 34 | 1.811 | 46 | 2.902 | 73.7 | GYE60 KRRB | CJ 12 | 11800 | 52000 | 8100 | 36000 | RCJY 60 |
| 1.339 | 34 | 1.929 | 49 | 2.902 | 73.7 | GY1207 KRRB | CJ 12 | 11800 | 52000 | 8100 | 36000 | RCJY 2-7/16 |
| 1.496 | 38 | 2.047 | 52 | 3.244 | 82.4 | GYE65 KRRB | CJ 14 | 14000 | 62000 | 9900 | 44000 | RCJY 65 |
| 1.496 | 38 | 2.047 | 52 | 3.244 | 82.4 | GYE70 KRRB | CJ 14 | 14000 | 62000 | 9900 | 44000 | RCJY 70 |
| 1.626 | 41.3 | 2.244 | 57 | 3.378 | 85.8 | GYE75KRRB | CJ 15 | 14000 | 62000 | 10100 | 44500 | RCJY 75 |
| 1.626 | 41.3 | 2.197 | 56 | 3.567 | 90.6 | GYE80 KRRB | CJ 16 | 16100 | 72000 | 12200 | 54000 | RCJY 80 |

# Square Flanged Housings
## TCJ SERIES

- Four bolt mounting
- Tri-ply P3 seals
- Inner ring extended on both sides
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

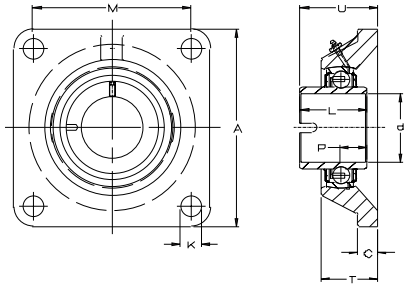
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | m lbs | m kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCJ 20 | 0.787 | 20 | 3.386 | 86 | 0.394 | 10 | 0.453 | 11.5 | 1.72 | 43.7 | 2.500 | 63.5 | 0.295 | 0.65 |
| TCJ 25 | 0.984 | 25 | 3.740 | 95 | 0.433 | 11 | 0.453 | 11.5 | 1.748 | 44.4 | 2.756 | 70 | 0.372 | 0.82 |
| TCJ 30 | 1.181 | 30 | 4.252 | 108 | 0.472 | 12 | 0.453 | 11.5 | 1.906 | 48.4 | 3.248 | 82.5 | 0.526 | 1.16 |
| TCJ 35 | 1.378 | 35 | 4.646 | 118 | 0.492 | 12.5 | 0.551 | 14 | 2.012 | 51.1 | 3.622 | 92 | 0.667 | 1.47 |
| TCJ 40 | 1.575 | 40 | 5.118 | 130 | 0.512 | 13 | 0.551 | 14 | 2.217 | 56.3 | 3.996 | 101.5 | 0.916 | 2.02 |
| TCJ 45 | 1.772 | 45 | 5.394 | 137 | 0.512 | 13 | 0.551 | 14 | 2.217 | 56.3 | 4.134 | 105 | 1.048 | 2.31 |
| TCJ 50 | 1.969 | 50 | 5.630 | 143 | 0.512 | 13 | 0.709 | 18 | 2.469 | 62.7 | 4.370 | 111 | 1.147 | 2.53 |
| TCJ 55 | 2.165 | 55 | 6.378 | 162 | 0.591 | 15 | 0.709 | 18 | 2.811 | 71.4 | 5.118 | 130 | 1.619 | 3.57 |
| TCJ 60 | 2.362 | 60 | 6.890 | 175 | 0.630 | 16 | 0.709 | 18 | 3.063 | 77.8 | 5.630 | 143 | 2.059 | 4.54 |
| TCJ 65 | 2.559 | 65 | 7.402 | 188 | 0.709 | 18 | 0.709 | 18 | 2.602 | 66.1 | 5.906 | 150 | 2.771 | 6.11 |
| TCJ 70 | 2.756 | 70 | 7.402 | 188 | 0.709 | 18 | 0.709 | 18 | 2.602 | 66.1 | 5.906 | 150 | 2.653 | 5.85 |
| TCJ 75 | 2.953 | 75 | 7.756 | 197 | 0.787 | 20 | 0.906 | 23 | 2.642 | 67.1 | 6.024 | 153 | 2.948 | 6.50 |
| TCJ 80 | 3.15 | 80 | 7.756 | 197 | 0.787 | 20 | 0.906 | 23 | 2.795 | 71 | 6.024 | 153 | 3.107 | 6.85 |

**CONTINUED FROM ABOVE**

| PART NUMBER | P inch | P mm | Q | T inch | T mm | U inch | U mm | HOUSING | INSERT | DYN. $C_r$ lbf | LOAD $C_r$ N | STAT. $C0_r$ lbf | LOAD $C0_r$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCJ 20 | 0.748 | 19 | R 1/8 | 1.142 | 29.00 | 1.795 | 45.60 | CJ 04 | GE 20 KPPB 3 | 2880 | 12800 | 1490 | 6600 |
| TCJ 25 | 0.748 | 19 | R 1/8 | 1.142 | 29.00 | 1.807 | 45.90 | CJ 05 | GE 25 KPPB 3 | 3150 | 14000 | 1750 | 7800 |
| TCJ 30 | 0.787 | 20 | R 1/8 | 1.142 | 29.00 | 1.972 | 50.10 | CJ 06 | GE 30 KPPB 3 | 4400 | 19500 | 2550 | 11300 |
| TCJ 35 | 0.827 | 21 | R 1/8 | 1.201 | 30.50 | 2.098 | 53.30 | CJ 07 | GE 35 KPPB 3 | 5700 | 25500 | 3450 | 15300 |
| TCJ 40 | 0.945 | 24 | R 1/8 | 1.358 | 34.50 | 2.319 | 58.90 | CJ 08 | GE 40 KPPB 3 | 7300 | 32500 | 4450 | 19800 |
| TCJ 45 | 0.945 | 24 | R 1/8 | 1.378 | 35.00 | 2.319 | 58.90 | CJ 09 | GE 45 KPPB 3 | 7300 | 32500 | 4600 | 20400 |
| TCJ 50 | 1.102 | 28 | R 1/8 | 1.535 | 39.00 | 2.602 | 66.10 | CJ 10 | GE 50 KPPB 3 | 7900 | 35000 | 5200 | 23200 |
| TCJ 55 | 1.220 | 31 | R 1/8 | 1.713 | 43.50 | 2.937 | 74.60 | CJ 11 | GE 55 KPPB 3 | 9800 | 43500 | 6500 | 29000 |
| TCJ 60 | 1.339 | 34 | R 1/8 | 1.811 | 46.00 | 3.181 | 80.80 | CJ 12 | GE 60 KPPB 3 | 11500 | 52000 | 8100 | 36000 |
| TCJ 65 | 1.496 | 38 | R 1/8 | 2.047 | 52.00 | 3.252 | 82.60 | CJ 14 | GE 65 KPPB 3 | 14000 | 62000 | 9900 | 44000 |
| TCJ 70 | 1.496 | 38 | R 1/8 | 2.047 | 52.00 | 3.252 | 82.60 | CJ 14 | GE 70 KPPB 3 | 14000 | 62000 | 9900 | 44000 |
| TCJ 75 | 1.626 | 41.3 | R 1/8 | 2.197 | 55.80 | 3.421 | 86.90 | CJ 15 | GE 75 KPPB 3 | 14000 | 62000 | 10000 | 44500 |
| TCJ 80 | 1.626 | 41.3 | R 1/8 | 2.197 | 55.80 | 3.500 | 88.90 | CJ 16 | GE 80 KPPB 3 | 16000 | 72000 | 12000 | 54000 |

# Square Flanged Housings
## RCJL SERIES

- Four bolt mounting
- Metric series
- Non-locating/Expansion type
- Drive slot on inner ring
- Radial internal clearance C4.




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

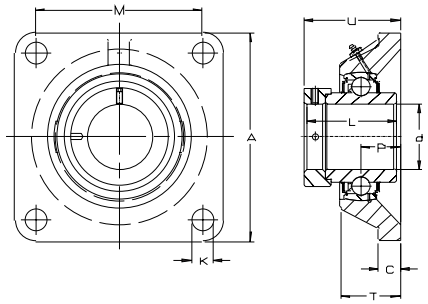
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJL 30 | - | 1.181 | 30 | 4.252 | 108 | 0.472 | 12 | 0.453 | 11.5 | 1.437 | 36.5 | 3.248 | 82.5 | 2.38 | 1.08 |
| RCJL 35 | - | 1.378 | 35 | 4.646 | 118 | 0.492 | 12.5 | 0.551 | 14 | 1.484 | 37.7 | 3.622 | 92 | 2.97 | 1.35 |
| RCJL 40 | - | 1.575 | 40 | 5.118 | 130 | 0.472 | 12 | 0.551 | 14 | 1.689 | 42.9 | 3.996 | 101.5 | 4.09 | 1.86 |
| RCJL 45 | - | 1.772 | 45 | 5.394 | 137 | 0.512 | 13 | 0.551 | 14 | 1.689 | 42.9 | 4.134 | 105 | 4.64 | 2.11 |
| RCJL 50 | - | 1.969 | 50 | 5.630 | 143 | 0.512 | 13 | 0.709 | 18 | 1.937 | 49.2 | 4.370 | 111 | 5.04 | 2.29 |
| RCJL 60 | - | 2.362 | 60 | 6.890 | 175 | 0.630 | 16 | 0.709 | 18 | 2.437 | 61.9 | 5.630 | 143 | 9.28 | 4.22 |
| RCJL 70 | - | 2.756 | 70 | 7.402 | 188 | 0.709 | 18 | 0.709 | 18 | 2.685 | 68.2 | 5.906 | 150 | 12.43 | 5.65 |

**CONTINUED FROM ABOVE**

| PART NUMBER | P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJL 30 | 0.787 | 20 | 1.142 | 29 | 1.654 | 42 | GLE30 KRRB | CJ 06 | 4350 | 19500 | 2550 | 11300 |
| RCJL 35 | 0.827 | 21 | 1.201 | 30.5 | 1.693 | 43 | GLE35 KRRB | CJ 07 | 5800 | 25500 | 3450 | 15300 |
| RCJL 40 | 0.945 | 24 | 1.358 | 34.5 | 2.008 | 51 | GLE40 KRRB | CJ 08 | 7300 | 32500 | 4450 | 19800 |
| RCJL 45 | 0.945 | 24 | 1.378 | 35 | 1.949 | 49.5 | GLE45 KRRB | CJ 09 | 7400 | 32500 | 4600 | 20400 |
| RCJL 50 | 1.102 | 28 | 1.535 | 39 | 2.291 | 58.2 | GLE50 KRRB | CJ 10 | 7900 | 35000 | 5200 | 23200 |
| RCJL 60 | 1.339 | 34 | 1.811 | 46 | 2.807 | 71.3 | GLE60 KRRB | CJ 12 | 11800 | 52000 | 8100 | 36000 |
| RCJL 70 | 1.496 | 38 | 2.047 | 52 | 3.118 | 79.2 | GLE70 KRRB | CJ14 | 14000 | 62000 | 9900 | 44000 |

# Square Flanged Housings
## RCJO SERIES

- Four bolt mounting
- Standard R seals
- Inner ring extended both sides
- Eccentric locking collar
- Heavy series insert - based on 6300 Series




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

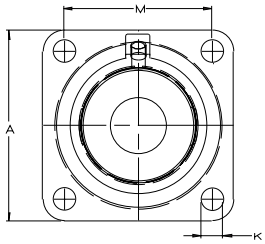
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJO 30 | - | 1.181 | 30 | 4.921 | 125 | 0.591 | 15 | 0.571 | 14.5 | 1.969 | 50 | 3.740 | 95 | 3.86 | 1.8 |
| RCJO 35 | - | 1.378 | 35 | 5.315 | 135 | 0.630 | 16 | 0.748 | 19 | 2.031 | 51.6 | 3.937 | 100 | 5.62 | 2.6 |
| RCJO 40 | - | 1.575 | 40 | 5.906 | 150 | 0.669 | 17 | 0.748 | 19 | 2.150 | 54.6 | 4.409 | 112 | 6.84 | 3.1 |
| RCJO 50 | - | 1.969 | 50 | 6.890 | 175 | 0.748 | 19 | 0.906 | 23 | 2.626 | 66.7 | 5.197 | 132 | 10.80 | 4.9 |
| RCJO 60 | - | 2.362 | 60 | 7.677 | 195 | 0.866 | 22 | 0.906 | 23 | 2.693 | 68.4 | 5.906 | 150 | 14.99 | 6.8 |
| RCJO 70 | - | 2.756 | 70 | 8.898 | 226 | 0.984 | 25 | 0.984 | 25 | 2.969 | 75.4 | 7.008 | 178 | 22.05 | 10 |

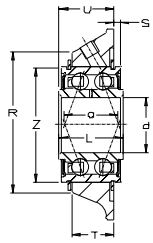
**CONTINUED FROM ABOVE**

| PART NUMBER | P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJO 30 | 0.811 | 20.6 | 1.205 | 30.6 | 2.091 | 53.1 | GNE30 KRRB | CJO 06 | 6700 | 29500 | 3750 | 16700 |
| RCJO 35 | 0.787 | 20 | 1.220 | 31 | 2.102 | 53.4 | GNE35 KRRB | CJO 07 | 8200 | 36500 | 4700 | 20900 |
| RCJO 40 | 0.906 | 23 | 1.358 | 34.5 | 2.346 | 59.6 | GNE40 KRRB | CJO 08 | 10000 | 44500 | 5800 | 26000 |
| RCJO 50 | 1.102 | 28 | 1.673 | 42.5 | 2.760 | 70.1 | GNE50 KRRB | CJO 10 | 13900 | 62000 | 8500 | 38000 |
| RCJO 60 | 1.299 | 33 | 1.949 | 49.5 | 3.087 | 78.4 | GNE60 KRRB | CJO 12 | 18400 | 82000 | 11700 | 52000 |
| RCJO 70 | 1.417 | 36 | 2.146 | 54.5 | 3.362 | 85.4 | GNE70 KRRB | CJO 14 | 23400 | 104000 | 15300 | 68000 |

# Square Flanged Housed Units
## PCCJ SERIES

- Four bolt flanged housed bearings
- Cast iron housing with centering spigot
- Double row angular contact ball bearing
- Standard P seals




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | $A_1$ inch | $A_1$ mm | K inch | K mm | L inch | L mm | M inch | M mm | $A_2$ inch | $A_2$ mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCCJ25 | - | 0.984 | 25 | 3.740 | 95 | 0.472 | 12 | 0.453 | 11.5 | 1.181 | 30 | 2.756 | 70 | 0.461 | 11.7 | 1.742 | 0.79 |
| PCCJ30 | - | 1.181 | 30 | 4.252 | 108 | 0.472 | 12 | 0.453 | 11.5 | 1.339 | 34 | 3.248 | 82.5 | 0.512 | 13 | 2.470 | 1.12 |
| PCCJ35 | - | 1.378 | 35 | 4.646 | 118 | 0.551 | 14 | 0.551 | 14 | 1.417 | 36 | 3.622 | 92 | 0.551 | 14 | 3.263 | 1.48 |
| PCCJ40 | - | 1.575 | 40 | 5.118 | 130 | 0.551 | 14 | 0.551 | 14 | 1.496 | 38 | 3.996 | 101.5 | 0.591 | 15 | 3.969 | 1.8 |

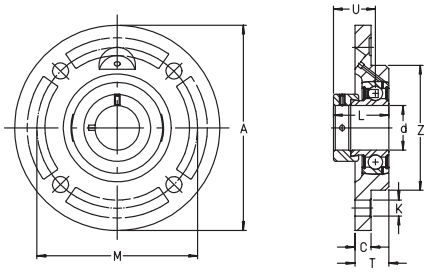
**CONTINUED FROM ABOVE**

| PART NUMBER | Q | R mm max. | S inch | S mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCCJ25 | M6 | 64 | 0.094 | 2.4 | 0.870 | 22.1 | 1.051 | 26.7 | G5205 2RSN | CCJ05 | 4850 | 21600 | 3350 | 14900 |
| PCCJ30 | M6 | 76 | 0.126 | 3.2 | 0.945 | 24 | 1.169 | 29.7 | G5206 2RSN | CCJ06 | 6700 | 30000 | 4800 | 21400 |
| PCCJ35 | M6 | 88 | 0.118 | 3 | 1.024 | 26 | 1.248 | 31.7 | G5207 2RSN | CCJ07 | 8750 | 39000 | 6500 | 29000 |
| PCCJ40 | M6 | 98 | 0.126 | 3.2 | 1.102 | 28 | 1.327 | 33.7 | G5208 2RSN | CCJ08 | 11200 | 50000 | 8400 | 37500 |

# Round 4 Bolt Flange Units With Pilot

## PME SERIES

- Metric series
- Pilot or centering spigot
- Cast iron housing
- Economy seals
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | T inch | T mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PME20 | 0.787 | 20 | 3.937 | 100 | 0.315 | 8 | 0.354 | 9 | 1.221 | 31 | 3.071 | 78 | 0.669 | 17 |
| PME25 | 0.984 | 25 | 4.528 | 115 | 0.354 | 9 | 0.354 | 9 | 1.221 | 31 | 3.543 | 90 | 0.748 | 19 |
| PME30 | 1.181 | 30 | 4.921 | 125 | 0.374 | 9.5 | 0.453 | 11.5 | 1.406 | 35.7 | 3.937 | 100 | 0.807 | 20.5 |
| PME35 | 1.378 | 35 | 5.315 | 135 | 0.394 | 10 | 0.453 | 11.5 | 1.532 | 38.9 | 4.331 | 110 | 0.807 | 20.5 |
| PME40 | 1.575 | 40 | 5.709 | 145 | 0.453 | 11.5 | 0.453 | 11.5 | 1.721 | 43.7 | 4.724 | 120 | 0.906 | 23 |
| PME45 | 1.772 | 45 | 6.102 | 155 | 0.472 | 12 | 0.551 | 14 | 1.721 | 43.7 | 5.118 | 130 | 0.984 | 25 |
| PME50 | 1.969 | 50 | 6.496 | 165 | 0.512 | 13 | 0.551 | 14 | 1.721 | 43.7 | 5.315 | 135 | 0.984 | 25 |

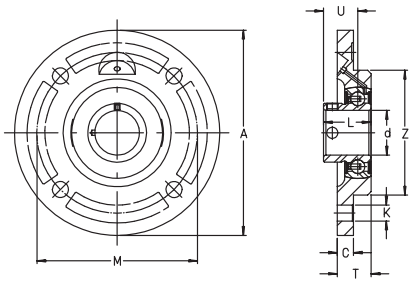
**CONTINUED FROM ABOVE**

| PART NUMBER | U inch | U mm | Z inch | Z mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | WEIGHT lbs | WEIGHT kg | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PME20 | 0.847 | 21.5 | 2.441 | 62 | 2,900 | 12800 | 1,480 | 6600 | 1.169 | 0.53 | ME04 | GRAE20NPPB |
| PME25 | 0.827 | 21 | 2.756 | 70 | 3,150 | 14000 | 1,750 | 7800 | 1.632 | 0.74 | ME05 | GRAE25NPPB |
| PME30 | 0.972 | 24.7 | 3.150 | 80 | 4,400 | 19500 | 2,550 | 11300 | 2.139 | 0.97 | ME06 | GRAE30NPPB |
| PME35 | 1.118 | 28.4 | 3.543 | 90 | 5,700 | 25500 | 3,450 | 15300 | 2.800 | 1.27 | ME07 | GRAE35NPPB |
| PME40 | 0.854 | 21.7 | 3.937 | 100 | 7,300 | 32500 | 4,450 | 19800 | 3.572 | 1.62 | ME08 | GRAE40NPPB |
| PME45 | 1.209 | 30.7 | 4.134 | 105 | 7,300 | 32500 | 4,600 | 20400 | 4.256 | 1.93 | ME09 | GRAE45NPPB |
| PME50 | 1.248 | 31.7 | 4.331 | 110 | 7,900 | 35000 | 5,200 | 23200 | 5.072 | 2.30 | ME10 | GRAE50NPPB |

# Round 4 Bolt Flange Units With Pilot

## PMEY SERIES

- Metric series
- Pilot or centering spigot
- Cast iron housing
- Economy seals
- Set screw locking



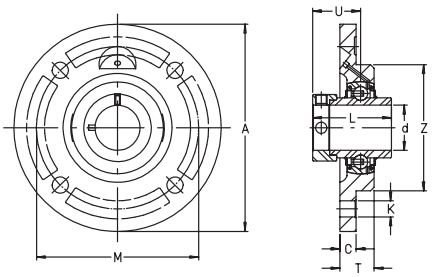

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | T inch | T mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PMEY20 | 0.787 | 20 | 3.937 | 100 | 0.315 | 8 | 0.354 | 9 | 0.984 | 25 | 3.071 | 78 | 0.669 | 17 |
| PMEY25 | 0.984 | 25 | 4.528 | 115 | 0.354 | 9 | 0.354 | 9 | 1.063 | 27 | 3.543 | 90 | 0.748 | 19 |
| PMEY30 | 1.181 | 30 | 4.921 | 125 | 0.374 | 9.5 | 0.453 | 11.5 | 1.181 | 30 | 3.937 | 100 | 0.807 | 20.5 |
| PMEY35 | 1.378 | 35 | 5.315 | 135 | 0.394 | 10 | 0.453 | 11.5 | 1.378 | 35 | 4.331 | 110 | 0.807 | 20.5 |
| PMEY40 | 1.575 | 40 | 5.709 | 145 | 0.453 | 11.5 | 0.453 | 11.5 | 1.555 | 39.5 | 4.724 | 120 | 0.906 | 23 |
| PMEY45 | 1.772 | 45 | 6.102 | 155 | 0.472 | 12 | 0.551 | 14 | 1.634 | 41.5 | 5.118 | 130 | 0.984 | 25 |
| PMEY50 | 1.969 | 50 | 6.496 | 165 | 0.512 | 13 | 0.551 | 14 | 1.693 | 43 | 5.315 | 135 | 0.984 | 25 |

**CONTINUED FROM ABOVE**

| PART NUMBER | U inch | U mm | Z inch | Z mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | WEIGHT lbs | WEIGHT kg | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PMEY20 | 0.610 | 15.5 | 2.441 | 62 | 2,900 | 12800 | 1,480 | 6600 | 1.455 | 0.66 | ME04 | GAY20NPPB |
| PMEY25 | 0.669 | 17 | 2.756 | 70 | 3,150 | 14000 | 1,750 | 7800 | 1.985 | 0.90 | ME05 | GAY25NPPB |
| PMEY30 | 0.748 | 19 | 3.150 | 80 | 4,400 | 19500 | 2,550 | 11300 | 2.007 | 0.91 | ME06 | GAY30NPPB |
| PMEY35 | 0.965 | 24.5 | 3.543 | 90 | 5,700 | 25500 | 3,450 | 15300 | 3.660 | 1.66 | ME07 | GAY35NPPB |
| PMEY40 | 0.689 | 17.5 | 3.937 | 100 | 7,300 | 32500 | 4,450 | 19800 | 4.697 | 2.13 | ME08 | GAY40NPPB |
| PMEY45 | 1.122 | 28.5 | 4.134 | 105 | 7,300 | 32500 | 4,600 | 20400 | 5.468 | 2.48 | ME09 | GAY45NPPB |
| PMEY50 | 1.221 | 31 | 4.331 | 110 | 7,900 | 35000 | 5,200 | 23200 | 6.439 | 2.92 | ME10 | GAY50NPPB |

# Round Flange Housings With Pilot
## RME SERIES




- Four bolt mounting
- Metric series
- Metric pilot or centering spigot
- Cast iron housing
- Standard seals
- Eccentric locking collar

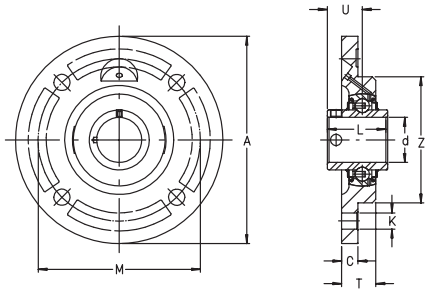
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | T inch | T mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RME20 | 0.787 | 20 | 3.937 | 100 | 0.315 | 8 | 0.354 | 9 | 1.721 | 43.7 | 3.071 | 78 | 0.669 | 17 |
| RME25 | 0.984 | 25 | 4.528 | 115 | 0.354 | 9 | 0.354 | 9 | 1.748 | 44.4 | 3.543 | 90 | 0.748 | 19 |
| RME30 | 1.181 | 30 | 4.921 | 125 | 0.374 | 9.5 | 0.453 | 11.5 | 1.906 | 48.4 | 3.937 | 100 | 0.807 | 20.5 |
| RME35 | 1.378 | 35 | 5.315 | 135 | 0.394 | 10 | 0.453 | 11.5 | 2.012 | 51.1 | 4.331 | 110 | 0.807 | 20.5 |
| RME40 | 1.575 | 40 | 5.709 | 145 | 0.453 | 11.5 | 0.453 | 11.5 | 2.217 | 56.3 | 4.724 | 120 | 0.906 | 23 |
| RME45 | 1.772 | 45 | 6.102 | 155 | 0.472 | 12 | 0.551 | 14 | 2.217 | 56.3 | 5.118 | 130 | 0.984 | 25 |
| RME50 | 1.969 | 50 | 6.496 | 165 | 0.512 | 13 | 0.551 | 14 | 2.469 | 62.7 | 5.315 | 135 | 0.984 | 25 |
| RME55 | 2.165 | 55 | 7.283 | 185 | 0.591 | 15 | 0.709 | 18 | 2.811 | 71.4 | 5.906 | 150 | 1.083 | 27.5 |
| RME65 | 2.559 | 65 | 8.465 | 215 | 0.709 | 18 | 0.709 | 18 | 2.602 | 66.1 | 6.969 | 177 | 1.260 | 32 |
| RME70 | 2.756 | 70 | 8.465 | 215 | 0.709 | 18 | 0.709 | 18 | 2.602 | 66.1 | 6.969 | 177 | 1.260 | 32 |
| RME75 | 2.953 | 75 | 8.661 | 220 | 0.709 | 18 | 0.709 | 18 | 2.642 | 67.1 | 7.244 | 184 | 1.260 | 32 |
| RME80 | 3.150 | 80 | 8.661 | 220 | 0.709 | 18 | 0.709 | 18 | 2.795 | 71 | 7.244 | 184 | 1.220 | 31 |

**CONTINUED FROM ABOVE**

| PART NUMBER | U inch | U mm | Z inch | Z mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | WEIGHT lbs | WEIGHT kg | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RME20 | 0.969 | 24.6 | 2.441 | 62 | 2900 | 12800 | 1480 | 6600 | 1.257 | 0.57 | ME04 | GE20KRRB |
| RME25 | 0.961 | 24.4 | 2.756 | 70 | 3150 | 14000 | 1750 | 7800 | 1.764 | 0.80 | ME05 | GE25KRRB |
| RME30 | 1.106 | 28.1 | 3.150 | 80 | 4400 | 19500 | 2550 | 11300 | 2.293 | 1.04 | ME06 | GE30KRRB |
| RME35 | 1.232 | 31.3 | 3.543 | 90 | 5700 | 25500 | 3450 | 15300 | 2.955 | 1.34 | ME07 | GE35KRRB |
| RME40 | 1.335 | 33.9 | 3.937 | 100 | 7300 | 32500 | 4450 | 19800 | 3.837 | 1.74 | ME08 | GE40KRRB |
| RME45 | 1.295 | 32.9 | 4.134 | 105 | 7300 | 32500 | 4600 | 20400 | 4.520 | 2.05 | ME09 | GE45KRRB |
| RME50 | 1.461 | 37.1 | 4.331 | 110 | 7900 | 35000 | 5200 | 23200 | 5.579 | 2.53 | ME10 | GE50KRRB |
| RME55 | 1.717 | 43.6 | 4.921 | 125 | 9800 | 43500 | 6500 | 29000 | 7.585 | 3.44 | ME11 | GE55KRRB |
| RME65 | 1.756 | 44.6 | 5.906 | 150 | 13950 | 62000 | 9900 | 44000 | 12.811 | 5.81 | ME14 | GE65KRRB |
| RME70 | 1.756 | 44.6 | 5.906 | 150 | 13950 | 62000 | 9900 | 44000 | 12.458 | 5.65 | ME14 | GE70KRRB |
| RME75 | 1.795 | 45.6 | 6.299 | 160 | 13950 | 62000 | 10000 | 44500 | 12.194 | 5.53 | ME15 | GE75KRRB |
| RME80 | 1.953 | 49.6 | 6.299 | 160 | 16200 | 72000 | 12000 | 54000 | 12.679 | 5.75 | ME16 | GE80KRRB |

# Round Flange Housings With Pilot
## RMEY SERIES




- Four bolt mounting
- Metric series
- Metric pilot or centering spigot
- Cast iron housing
- Standard seals
- Eccentric locking collar

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

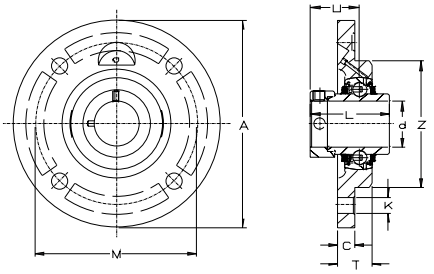
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | T inch | T mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RMEY20 | 0.787 | 20 | 3.937 | 100 | 0.315 | 8 | 0.354 | 9 | 1.221 | 31 | 3.071 | 78 | 0.669 | 17 |
| RMEY25 | 0.984 | 25 | 4.528 | 115 | 0.354 | 9 | 0.354 | 9 | 1.343 | 34.1 | 3.543 | 90 | 0.748 | 19 |
| RMEY30 | 1.181 | 30 | 4.921 | 125 | 0.374 | 9.5 | 0.453 | 11.5 | 1.500 | 38.1 | 3.937 | 100 | 0.807 | 20.5 |
| RMEY35 | 1.378 | 35 | 5.315 | 135 | 0.394 | 10 | 0.453 | 11.5 | 1.689 | 42.9 | 4.331 | 110 | 0.807 | 20.5 |
| RMEY40 | 1.575 | 40 | 5.709 | 145 | 0.453 | 11.5 | 0.453 | 11.5 | 1.937 | 49.2 | 4.724 | 120 | 0.906 | 23 |
| RMEY45 | 1.772 | 45 | 6.102 | 155 | 0.472 | 12 | 0.551 | 14 | 1.937 | 49.2 | 5.118 | 130 | 0.984 | 25 |
| RMEY50 | 1.969 | 50 | 6.496 | 165 | 0.512 | 13 | 0.551 | 14 | 2.032 | 51.6 | 5.315 | 135 | 0.984 | 25 |
| RMEY55 | 2.165 | 55 | 7.283 | 185 | 0.591 | 15 | 0.709 | 18 | 2.189 | 55.6 | 5.906 | 150 | 1.083 | 27.5 |
| RMEY60 | 2.362 | 60 | 7.677 | 195 | 0.630 | 16 | 0.709 | 18 | 2.563 | 65.1 | 6.299 | 160 | 1.142 | 29 |
| RMEY65 | 2.559 | 65 | 8.465 | 215 | 0.709 | 18 | 0.709 | 18 | 2.937 | 74.6 | 6.969 | 177 | 1.260 | 32 |
| RMEY70 | 2.756 | 70 | 8.465 | 215 | 0.709 | 18 | 0.709 | 18 | 2.937 | 74.6 | 6.969 | 177 | 1.260 | 32 |
| RMEY75 | 2.953 | 75 | 8.661 | 220 | 0.709 | 18 | 0.709 | 18 | 3.063 | 77.8 | 7.244 | 184 | 1.260 | 32 |
| RMEY80 | 3.150 | 80 | 8.661 | 220 | 0.709 | 18 | 0.709 | 18 | 3.252 | 82.6 | 7.244 | 184 | 1.220 | 31 |

**CONTINUED FROM ABOVE**

| PART NUMBER | U inch | U mm | Z inch | Z mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | WEIGHT lbs | WEIGHT kg | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RMEY20 | 0.642 | 16.3 | 2.441 | 62 | 2900 | 12800 | 1480 | 6600 | 1.191 | 0.54 | ME04 | GYE20KRRB |
| RMEY25 | 0.681 | 17.3 | 2.756 | 70 | 3150 | 14000 | 1750 | 7800 | 1.654 | 0.75 | ME05 | GYE25KRRB |
| RMEY30 | 0.795 | 20.2 | 3.150 | 80 | 4400 | 19500 | 2550 | 11300 | 2.183 | 0.99 | ME06 | GYE30KRRB |
| RMEY35 | 0.961 | 24.4 | 3.543 | 90 | 5700 | 25500 | 3450 | 15300 | 2.822 | 1.28 | ME07 | GYE35KRRB |
| RMEY40 | 1.150 | 29.2 | 3.937 | 100 | 7300 | 32500 | 4450 | 19800 | 3.638 | 1.65 | ME08 | GYE40KRRB |
| RMEY45 | 1.110 | 28.2 | 4.134 | 105 | 7300 | 32500 | 4600 | 20400 | 4.278 | 1.94 | ME09 | GYE45KRRB |
| RMEY50 | 1.244 | 31.6 | 4.331 | 110 | 7900 | 35000 | 5200 | 23200 | 5.138 | 2.33 | ME10 | GYE50KRRB |
| RMEY55 | 1.315 | 33.4 | 4.921 | 125 | 9800 | 43500 | 6500 | 29000 | 6.725 | 3.05 | ME11 | GYE55KRRB |
| RMEY60 | 1.524 | 38.7 | 5.315 | 135 | 11700 | 52000 | 8100 | 36000 | 7.651 | 3.47 | ME12 | GYE60KRRB |
| RMEY65 | 1.748 | 44.4 | 5.906 | 150 | 14000 | 62000 | 9900 | 44000 | 11.797 | 5.35 | ME14 | GYE65KRRB |
| RMEY70 | 1.748 | 44.4 | 5.906 | 150 | 14000 | 62000 | 9900 | 44000 | 11.246 | 5.10 | ME14 | GYE70KRRB |
| RMEY75 | 1.752 | 44.5 | 6.299 | 160 | 14000 | 62000 | 9900 | 44000 | 11.444 | 5.19 | ME15 | GYE75KRRB |
| RMEY80 | 2.020 | 51.3 | 6.299 | 160 | 16200 | 72000 | 12000 | 54000 | 12.635 | 5.73 | ME16 | GYE80KRRB |

# Round Flange Units with Pilot
## TME SERIES

- Four bolt mounting
- Metric series
- Metric pilot or centering spigot
- Tri-ply P3 seals
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

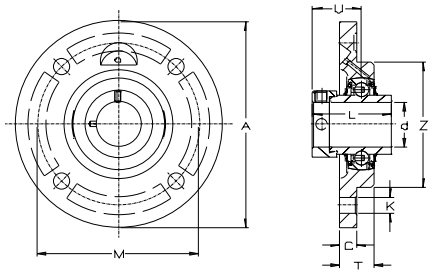
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | T inch | T mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TME20 | 0.787 | 20 | 3.937 | 100 | 0.315 | 8 | 0.354 | 9 | 1.721 | 43.7 | 3.071 | 78 | 0.669 | 17 |
| TME25 | 0.984 | 25 | 4.528 | 115 | 0.354 | 9 | 0.354 | 9 | 1.748 | 44.4 | 3.543 | 90 | 0.748 | 19 |
| TME30 | 1.181 | 30 | 4.921 | 125 | 0.374 | 9.5 | 0.453 | 11.5 | 1.906 | 48.4 | 3.937 | 100 | 0.807 | 20.5 |
| TME35 | 1.378 | 35 | 5.315 | 135 | 0.394 | 10 | 0.453 | 11.5 | 2.012 | 51.1 | 4.331 | 110 | 0.807 | 20.5 |
| TME40 | 1.575 | 40 | 5.709 | 145 | 0.453 | 11.5 | 0.453 | 11.5 | 2.217 | 56.3 | 4.724 | 120 | 0.906 | 23 |
| TME45 | 1.772 | 45 | 6.102 | 155 | 0.472 | 12 | 0.551 | 14 | 2.217 | 56.3 | 5.118 | 130 | 0.984 | 25 |
| TME50 | 1.969 | 50 | 6.496 | 165 | 0.512 | 13 | 0.551 | 14 | 2.469 | 62.7 | 5.315 | 135 | 0.984 | 25 |
| TME55 | 2.165 | 55 | 7.283 | 185 | 0.591 | 15 | 0.709 | 18 | 2.811 | 71.4 | 5.906 | 150 | 1.083 | 27.5 |
| TME65 | 2.559 | 65 | 8.465 | 215 | 0.709 | 18 | 0.709 | 18 | 2.602 | 66.1 | 6.969 | 177 | 1.260 | 32 |
| TME70 | 2.756 | 70 | 8.465 | 215 | 0.709 | 18 | 0.709 | 18 | 2.602 | 66.1 | 6.969 | 177 | 1.260 | 32 |
| TME75 | 2.953 | 75 | 8.661 | 220 | 0.709 | 18 | 0.709 | 18 | 2.642 | 67.1 | 7.244 | 184 | 1.260 | 32 |
| TME80 | 3.150 | 80 | 8.661 | 220 | 0.709 | 18 | 0.709 | 18 | 2.795 | 71 | 7.244 | 184 | 1.220 | 31 |

**CONTINUED FROM ABOVE**

| PART NUMBER | U inch | U mm | Z inch | Z mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | WEIGHT lbs | WEIGHT kg | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TME20 | 0.969 | 24.6 | 2.441 | 62 | 2900 | 12800 | 1480 | 6600 | 1.257 | 0.57 | ME04 | GE20KPPB-3 |
| TME25 | 0.961 | 24.4 | 2.756 | 70 | 3150 | 14000 | 1750 | 7800 | 1.764 | 0.80 | ME05 | GE25KPPB-3 |
| TME30 | 1.106 | 28.1 | 3.150 | 80 | 4400 | 19500 | 2550 | 11300 | 2.293 | 1.04 | ME06 | GE30KPPB-3 |
| TME35 | 1.232 | 31.3 | 3.543 | 90 | 5700 | 25500 | 3450 | 15300 | 2.955 | 1.34 | ME07 | GE35KPPB-3 |
| TME40 | 1.335 | 33.9 | 3.937 | 100 | 7300 | 32500 | 4450 | 19800 | 3.837 | 1.74 | ME08 | GE40KPPB-3 |
| TME45 | 1.295 | 32.9 | 4.134 | 105 | 7300 | 32500 | 4600 | 20400 | 4.520 | 2.05 | ME09 | GE45KPPB-3 |
| TME50 | 1.461 | 37.1 | 4.331 | 110 | 7900 | 35000 | 5200 | 23200 | 5.579 | 2.53 | ME10 | GE50KPPB-3 |
| TME55 | 1.717 | 43.6 | 4.921 | 125 | 9800 | 43500 | 6500 | 29000 | 7.585 | 3.44 | ME11 | GE55KPPB-3 |
| TME65 | 1.756 | 44.6 | 5.906 | 150 | 13950 | 62000 | 9900 | 44000 | 12.811 | 5.81 | ME14 | GE65KPPB-3 |
| TME70 | 1.756 | 44.6 | 5.906 | 150 | 13950 | 62000 | 9900 | 44000 | 12.458 | 5.65 | ME14 | GE70KPPB-3 |
| TME75 | 1.795 | 45.6 | 6.299 | 160 | 13950 | 62000 | 10000 | 44500 | 12.194 | 5.53 | ME15 | GE75KPPB-3 |
| TME80 | 1.953 | 49.6 | 6.299 | 160 | 16200 | 72000 | 12000 | 54000 | 12.679 | 5.75 | ME16 | GE80KPPB-3 |

# Round Flange Units with Pilot
## RMEO SERIES

- Four bolt mounting
- Metric series
- Metric pilot or centering spigot
- Standard R seals
- Eccentric locking collar
- Heavy series inserts - based on 6300 Series




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

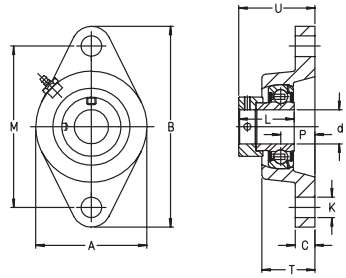
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | T inch | T mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RMEO 30 | 1.181 | 30 | 6.378 | 162 | 0.591 | 15 | 0.571 | 14.5 | 1.969 | 50 | 5.276 | 134 | 0.906 | 23 |
| RMEO 35 | 1.378 | 35 | 6.850 | 174 | 0.630 | 16 | 0.748 | 19 | 2.031 | 51.6 | 5.551 | 141 | 0.984 | 25 |
| RMEO 40 | 1.575 | 40 | 7.638 | 194 | 0.669 | 17 | 0.748 | 19 | 2.150 | 54.6 | 6.220 | 158 | 1.063 | 27 |
| RMEO 50 | 1.969 | 50 | 9.055 | 230 | 0.748 | 19 | 0.906 | 23 | 2.626 | 66.7 | 7.362 | 187 | 1.220 | 31 |
| RMEO 60 | 2.362 | 60 | 10.079 | 256 | 0.866 | 22 | 0.906 | 23 | 2.693 | 68.4 | 8.346 | 212 | 1.417 | 36 |
| RMEO 70 | 2.756 | 70 | 11.811 | 300 | 0.984 | 25 | 0.984 | 25 | 2.969 | 75.4 | 9.921 | 252 | 1.693 | 43 |

**CONTINUED FROM ABOVE**

| PART NUMBER | U inch | U mm | Z inch | Z mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | WEIGHT lbs | WEIGHT kg | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RMEO 30 | 1.358 | 34.5 | 3.543 | 90 | 6700 | 29500 | 3750 | 16700 | 3.75 | 1.7 | MEO 06 | GNE30KRRB |
| RMEO 35 | 1.394 | 35.4 | 3.937 | 100 | 8200 | 36500 | 4700 | 20900 | 5.29 | 2.4 | MEO 07 | GNE35KRRB |
| RMEO 40 | 1.539 | 39.1 | 4.528 | 115 | 10000 | 44500 | 5800 | 26000 | 6.17 | 2.8 | MEO 08 | GNE40KRRB |
| RMEO 50 | 1.756 | 44.6 | 5.512 | 140 | 13900 | 62000 | 8500 | 38000 | 10.14 | 4.6 | MEO 10 | GNE50KRRB |
| RMEO 60 | 1.886 | 47.9 | 6.299 | 160 | 18400 | 82000 | 11700 | 52000 | 13.23 | 6.0 | MEO 11 | GNE60KRRB |
| RMEO 70 | 1.965 | 49.9 | 7.283 | 185 | 23400 | 104000 | 15300 | 68000 | 19.85 | 9.0 | MEO 14 | GNE70KRRB |

# Oval Flanged Housings
## PCJT SERIES

- Two bolt mounting
- Eccentric locking collar
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

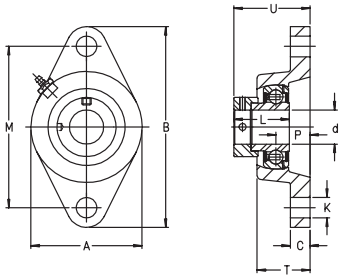



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCJT 12 | - | 0.472 | 12 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.126 | 28.6 | 3.012 | 76.5 | 0.882 | 0.4 |
| PCJT 1/2 | 1/2 | 0.500 | 12.7 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.126 | 28.6 | 3.012 | 76.5 | 0.882 | 0.4 |
| PCJT 15 | - | 0.591 | 15 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.126 | 28.6 | 3.012 | 76.5 | 0.882 | 0.4 |
| PCJT 5/8 | 5/8 | 0.625 | 15.9 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.126 | 28.6 | 3.012 | 76.5 | 0.882 | 0.4 |
| PCJT 17 | - | 0.669 | 17 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.126 | 28.6 | 3.012 | 76.5 | 0.882 | 0.4 |
| PCJT 3/4 | 3/4 | 0.750 | 19.1 | 2.441 | 62 | 4.409 | 112 | 0.433 | 11 | 0.453 | 11.5 | 1.221 | 31 | 3.543 | 90 | 1.103 | 0.5 |
| PCJT 20 | - | 0.787 | 20 | 2.402 | 61 | 4.409 | 112 | 0.394 | 10 | 0.453 | 11.5 | 1.221 | 31 | 3.543 | 90 | 1.103 | 0.5 |
| PCJT 7/8 | 7/8 | 0.875 | 22.2 | 2.795 | 71 | 4.921 | 125 | 0.472 | 12 | 0.453 | 11.5 | 1.221 | 31 | 3.898 | 99 | 1.544 | 0.7 |
| PCJT 25 | - | 0.984 | 25 | 2.756 | 70 | 4.882 | 124 | 0.433 | 11 | 0.453 | 11.5 | 1.221 | 31 | 3.898 | 99 | 1.544 | 0.7 |
| PCJT 1 | 1 | 1.000 | 25.4 | 2.795 | 71 | 4.921 | 125 | 0.472 | 12 | 0.453 | 11.5 | 1.221 | 31 | 3.898 | 99 | 1.544 | 0.7 |
| PCJT 1-1/16 | 1-1/16 | 1.063 | 26.9 | 3.169 | 80.5 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.406 | 35.7 | 4.587 | 116.5 | 2.205 | 1.0 |
| PCJT 1-1/8 | 1-1/8 | 1.125 | 28.6 | 3.169 | 80.5 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.406 | 35.7 | 4.587 | 116.5 | 2.205 | 1.0 |
| PCJT 30 | - | 1.181 | 30 | 3.150 | 80 | 5.591 | 142 | 0.472 | 12 | 0.453 | 11.5 | 1.406 | 35.7 | 4.587 | 116.5 | 2.205 | 1.0 |
| PCJT 1-3/16 | 1-3/16 | 1.188 | 30.2 | 3.169 | 80.5 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.406 | 35.7 | 4.587 | 116.5 | 2.205 | 1.0 |
| PCJT 1-1/4-206 | 1-1/4 | 1.250 | 31.8 | 3.169 | 80.5 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.406 | 35.7 | 4.587 | 116.5 | 2.205 | 1.0 |
| PCJT 1-1/4 | 1-1/4 | 1.250 | 31.8 | 3.642 | 92.5 | 6.142 | 156 | 0.551 | 14 | 0.551 | 14 | 1.532 | 38.9 | 5.118 | 130 | 2.867 | 1.3 |
| PCJT 1-3/8 | 1-3/8 | 1.375 | 34.9 | 3.642 | 92.5 | 6.142 | 156 | 0.551 | 14 | 0.551 | 14 | 1.532 | 38.9 | 5.118 | 130 | 2.867 | 1.3 |
| PCJT 35 | - | 1.378 | 35 | 3.622 | 92 | 6.102 | 155 | 0.492 | 12.5 | 0.551 | 14 | 1.532 | 38.9 | 5.118 | 130 | 2.867 | 1.3 |
| PCJT 1-7/16 | 1-7/16 | 1.438 | 36.5 | 3.642 | 92.5 | 6.142 | 156 | 0.551 | 14 | 0.551 | 14 | 1.532 | 38.9 | 5.118 | 130 | 2.867 | 1.3 |
| PCJT 1-1/2 | 1-1/2 | 1.500 | 38.1 | 4.154 | 105.5 | 6.811 | 173 | 0.591 | 15 | 0.551 | 14 | 1.721 | 43.7 | 5.650 | 143.5 | 3.969 | 1.8 |
| PCJT 40 | - | 1.575 | 40 | 4.134 | 105 | 6.772 | 172 | 0.512 | 13 | 0.551 | 14 | 1.721 | 43.7 | 5.650 | 143.5 | 3.969 | 1.8 |
| PCJT 1-3/4 | 1-3/4 | 1.750 | 44.5 | 4.409 | 112 | 7.106 | 180.5 | 0.591 | 15 | 0.551 | 14 | 1.721 | 43.7 | 5.847 | 148.5 | 4.631 | 2.1 |
| PCJT 45 | - | 1.772 | 45 | 4.409 | 112 | 7.106 | 180.5 | 0.512 | 13 | 0.551 | 14 | 1.721 | 43.7 | 5.847 | 148.5 | 4.631 | 2.1 |
| PCJT 1-15/16 | 1-15/16 | 1.938 | 49.2 | 4.587 | 116.5 | 7.520 | 191 | 0.630 | 16 | 0.669 | 17 | 1.721 | 43.7 | 6.181 | 157 | 5.513 | 2.5 |
| PCJT 50 | - | 1.969 | 50 | 4.567 | 116 | 7.480 | 190 | 0.512 | 13 | 0.709 | 18 | 1.721 | 43.7 | 6.181 | 157 | 5.513 | 2.5 |
| PCJT 2 | 2 | 2.000 | 50.8 | 5.295 | 134.5 | 8.898 | 226 | 0.669 | 17 | 0.669 | 17 | 1.906 | 48.4 | 7.244 | 184 | 8.600 | 3.9 |
| PCJT 55 | - | 2.165 | 55 | 5.295 | 134.5 | 8.898 | 226 | 0.669 | 17 | 0.669 | 17 | 1.906 | 48.4 | 7.244 | 184 | 8.600 | 3.9 |
| PCJT 2-3/16 | 2-3/16 | 2.188 | 55.6 | 5.295 | 134.5 | 8.898 | 226 | 0.669 | 17 | 0.669 | 17 | 1.906 | 48.4 | 7.244 | 184 | 8.600 | 3.9 |
| PCJT 60 | - | 2.362 | 60 | 5.433 | 138 | 9.370 | 238 | 0.630 | 16 | 0.709 | 18 | 2.091 | 53.1 | 7.953 | 202 | 9.482 | 4.3 |
| PCJT 2-7/16 | 2-7/16 | 2.438 | 61.9 | 5.512 | 140 | 9.409 | 239 | 0.709 | 18 | 0.709 | 18 | 2.091 | 53.1 | 7.953 | 202 | 9.482 | 4.3 |

# Oval Flanged Housings
## PCJT SERIES

- Two bolt mounting
- Eccentric locking collar
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

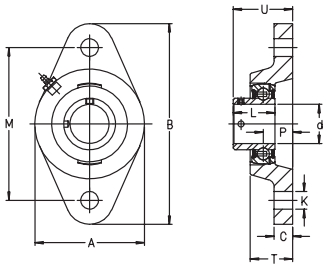



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.669 | 17 | 0.945 | 24 | 1.539 | 39.1 | GRAE 12 NPPB | CJT 03 | 2150 | 9600 | 1070 | 4750 | PCJT 12 |
| 0.669 | 17 | 0.945 | 24 | 1.539 | 39.1 | GRA 008 NPPB | CJT 03 | 2150 | 9600 | 1070 | 4750 | PCJT 1/2 |
| 0.669 | 17 | 0.945 | 24 | 1.539 | 39.1 | GRAE 15 NPPB | CJT 03 | 2150 | 9600 | 1070 | 4750 | PCJT 15 |
| 0.669 | 17 | 0.945 | 24 | 1.539 | 39.1 | GRA 010 NPPB | CJT 03 | 2150 | 9600 | 1070 | 4750 | PCJT 5/8 |
| 0.669 | 17 | 0.945 | 24 | 1.539 | 39.1 | GRAE 17 NPPB | CJT 03 | 2150 | 9600 | 1070 | 4750 | PCJT 17 |
| 0.748 | 19 | 1.161 | 29.5 | 1.673 | 42.5 | GRA 012 NPPB | CJT 04 | 2900 | 12800 | 1480 | 6600 | PCJT 3/4 |
| 0.748 | 19 | 1.102 | 28 | 1.673 | 42.5 | GRAE 20 NPPB | CJT 04 | 2900 | 12800 | 1480 | 6600 | PCJT 20 |
| 0.748 | 19 | 1.083 | 27.5 | 1.673 | 42.5 | GRA 014 NPPB | CJT 05 | 3150 | 14000 | 1760 | 7800 | PCJT 7/8 |
| 0.748 | 19 | 1.043 | 26.5 | 1.673 | 42.5 | GRAE 25 NPPB | CJT 05 | 3150 | 14000 | 1760 | 7800 | PCJT 25 |
| 0.748 | 19 | 1.083 | 27.5 | 1.673 | 42.5 | GRA 100 NPPB | CJT 05 | 3150 | 14000 | 1760 | 7800 | PCJT 1 |
| 0.787 | 20 | 1.280 | 32.5 | 1.839 | 46.7 | GRA 101 NPPB | CJT 06 | 4350 | 19500 | 2550 | 11300 | PCJT 1-1/16 |
| 0.787 | 20 | 1.280 | 32.5 | 1.839 | 46.7 | GRA 102 NPPB | CJT 06 | 4350 | 19500 | 2550 | 11300 | PCJT 1-1/8 |
| 0.787 | 20 | 1.142 | 29 | 1.839 | 46.7 | GRAE 30 NPPB | CJT 06 | 4350 | 19500 | 2550 | 11300 | PCJT 30 |
| 0.787 | 20 | 1.280 | 32.5 | 1.839 | 46.7 | GRA 103 NPPB | CJT 06 | 4350 | 19500 | 2550 | 11300 | PCJT 1-3/16 |
| 0.787 | 20 | 1.280 | 32.5 | 1.839 | 46.7 | GRA 104 NPPB-206 | CJT 06 | 4350 | 19500 | 2550 | 11300 | PCJT 1-1/4-206 |
| 0.827 | 21 | 1.358 | 34.5 | 1.984 | 50.4 | GRA 104 NPPB | CJT 07 | 5800 | 25500 | 3450 | 15300 | PCJT 1-1/4 |
| 0.827 | 21 | 1.358 | 34.5 | 1.984 | 50.4 | GRA 106 NPPB | CJT 07 | 5800 | 25500 | 3450 | 15300 | PCJT 1-3/8 |
| 0.827 | 21 | 1.201 | 30.5 | 1.984 | 50.4 | GRAE 35 NPPB | CJT 07 | 5800 | 25500 | 3450 | 15300 | PCJT 35 |
| 0.827 | 21 | 1.358 | 34.5 | 1.984 | 50.4 | GRA 107 NPPB | CJT 07 | 5800 | 25500 | 3450 | 15300 | PCJT 1-7/16 |
| 0.945 | 24 | 1.496 | 38 | 2.232 | 56.7 | GRA 108 NPPB | CJT 08 | 7300 | 32500 | 4450 | 19800 | PCJT 1-1/2 |
| 0.945 | 24 | 1.358 | 34.5 | 2.232 | 56.7 | GRAE 40 NPPB | CJT 08 | 7300 | 32500 | 4450 | 19800 | PCJT 40 |
| 0.945 | 24 | 1.516 | 38.5 | 2.232 | 56.7 | GRA 112 NPPB | CJT 09 | 7400 | 32500 | 4600 | 20400 | PCJT 1-3/4 |
| 0.945 | 24 | 1.516 | 38.5 | 2.232 | 56.7 | GRAE 45 NPPB | CJT 09 | 7400 | 32500 | 4600 | 20400 | PCJT 45 |
| 1.102 | 28 | 1.693 | 43 | 2.390 | 60.7 | GRA 115 NPPB | CJT 10 | 7900 | 35000 | 5200 | 23200 | PCJT 1-15/16 |
| 1.102 | 28 | 1.535 | 39 | 2.390 | 60.7 | GRAE 50 NPPB | CJT 10 | 7900 | 35000 | 5200 | 23200 | PCJT 50 |
| 1.221 | 31 | 1.811 | 46 | 2.654 | 67.4 | GRA 200 NPPB | CJT 11 | 9800 | 43500 | 6600 | 29000 | PCJT 2 |
| 1.221 | 31 | 1.811 | 46 | 2.654 | 67.4 | GRAE 55 NPPB | CJT 11 | 9800 | 43500 | 6600 | 29000 | PCJT 55 |
| 1.221 | 31 | 1.811 | 46 | 2.654 | 67.4 | GRA 203 NPPB | CJT 11 | 9800 | 43500 | 6600 | 29000 | PCJT 2-3/16 |
| 1.339 | 34 | 1.949 | 50 | 2.898 | 73.6 | GRAE 60 NPPB | CJT 12 | 11800 | 52000 | 8100 | 36000 | PCJT 60 |
| 1.339 | 34 | 1.949 | 50 | 2.898 | 73.6 | GRA 207 NPPB | CJT 12 | 11800 | 52000 | 8100 | 36000 | PCJT 2-7/16 |

# Oval Flanged Housings
## PCJTY SERIES

- Two bolt mounting
- Set screw shaft locking
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

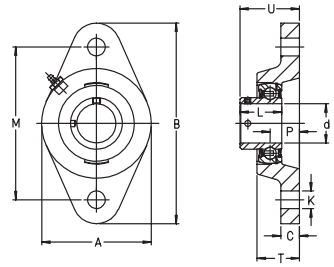



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCJTY 12 | - | 0.472 | 12 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 0.866 | 22 | 3.012 | 76.5 | 0.882 | 0.4 |
| PCJTY 1/2 | 1/2 | 0.500 | 12.7 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 0.866 | 22 | 3.012 | 76.5 | 0.882 | 0.4 |
| PCJTY 15 | - | 0.591 | 15 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 0.866 | 22 | 3.012 | 76.5 | 0.882 | 0.4 |
| PCJTY 5/8 | 5/8 | 0.625 | 15.9 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 0.866 | 22 | 3.012 | 76.5 | 0.882 | 0.4 |
| PCJTY 17 | - | 0.669 | 17 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 0.866 | 22 | 3.012 | 76.5 | 0.882 | 0.4 |
| PCJTY 3/4 | 3/4 | 0.750 | 19.1 | 2.441 | 62 | 4.409 | 112 | 0.433 | 11 | 0.453 | 11.5 | 0.984 | 25 | 3.543 | 90 | 1.103 | 0.5 |
| PCJTY 20 | - | 0.787 | 20 | 2.402 | 61 | 4.409 | 112 | 0.394 | 10 | 0.453 | 11.5 | 0.984 | 25 | 3.543 | 90 | 1.103 | 0.5 |
| PCJTY 7/8 | 7/8 | 0.875 | 22.2 | 2.795 | 71 | 4.921 | 125 | 0.472 | 12 | 0.453 | 11.5 | 1.063 | 27 | 3.898 | 99 | 1.544 | 0.7 |
| PCJTY 25 | - | 0.984 | 25 | 2.756 | 70 | 4.882 | 124 | 0.433 | 11 | 0.453 | 11.5 | 1.063 | 27 | 3.898 | 99 | 1.544 | 0.7 |
| PCJTY 1 | 1 | 1.000 | 25.4 | 2.795 | 71 | 4.921 | 125 | 0.472 | 12 | 0.453 | 11.5 | 1.063 | 27 | 3.898 | 99 | 1.544 | 0.7 |
| PCJTY 30 | - | 1.181 | 30 | 3.150 | 80 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.181 | 30 | 4.587 | 116.5 | 2.205 | 1.0 |
| PCJTY 1-3/16 | 1-3/16 | 1.188 | 30.2 | 3.169 | 80.5 | 5.591 | 142 | 0.551 | 14 | 0.453 | 11.5 | 1.181 | 30 | 4.587 | 116.5 | 2.205 | 1.0 |
| PCJTY 1-1/4 | 1-1/4 | 1.250 | 31.8 | 3.642 | 92.5 | 6.142 | 156 | 0.492 | 12.5 | 0.551 | 14 | 1.378 | 35 | 5.118 | 130 | 2.867 | 1.3 |
| PCJTY 35 | - | 1.378 | 35 | 3.622 | 92 | 6.102 | 155 | 0.551 | 14 | 0.551 | 14 | 1.378 | 35 | 5.118 | 130 | 2.867 | 1.3 |
| PCJTY 1-7/16 | 1-7/16 | 1.438 | 36.5 | 3.642 | 92.5 | 6.142 | 156 | 0.591 | 15 | 0.551 | 14 | 1.378 | 35 | 5.118 | 130 | 2.867 | 1.3 |
| PCJTY 1-1/2 | 1-1/2 | 1.500 | 38.1 | 4.154 | 105.5 | 6.811 | 173 | 0.512 | 13 | 0.551 | 14 | 1.555 | 39.5 | 5.650 | 143.5 | 3.969 | 1.8 |
| PCJTY 40 | - | 1.575 | 40 | 4.134 | 105 | 6.772 | 172 | 0.591 | 15 | 0.551 | 14 | 1.555 | 39.5 | 5.650 | 143.5 | 3.969 | 1.8 |
| PCJTY 1-3/4 | 1-3/4 | 1.750 | 44.5 | 4.409 | 112 | 7.106 | 180.5 | 0.512 | 13 | 0.551 | 14 | 1.634 | 41.5 | 5.847 | 148.5 | 4.631 | 2.1 |
| PCJTY 45 | - | 1.772 | 45 | 4.409 | 112 | 7.106 | 180.5 | 0.630 | 16 | 0.551 | 14 | 1.634 | 41.5 | 5.847 | 148.5 | 4.631 | 2.1 |
| PCJTY 1-15/16 | 1-15/16 | 1.938 | 49.2 | 4.587 | 116.5 | 7.520 | 191 | 0.512 | 13 | 0.669 | 17 | 1.693 | 43 | 6.181 | 157 | 5.513 | 2.5 |
| PCJTY 50 | - | 1.969 | 50 | 4.567 | 116 | 7.480 | 190 | 0.512 | 13 | 0.709 | 18 | 1.693 | 43 | 6.181 | 157 | 5.513 | 2.5 |

# Oval Flanged Housings
## PCJTY SERIES

- Two bolt mounting
- Set screw shaft locking
- Economy P seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

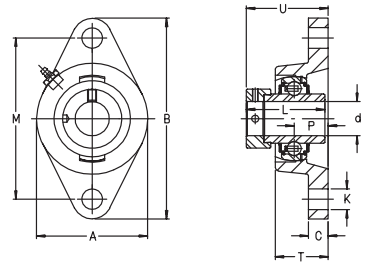



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| P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.669 | 17 | 0.945 | 24 | 1.299 | 33 | GAY12 NPPB | CJT 03 | 2150 | 9600 | 1070 | 4750 | PCJTY 12 |
| 0.669 | 17 | 0.945 | 24 | 1.299 | 33 | GAY008 NPPB | CJT 03 | 2150 | 9600 | 1070 | 4750 | PCJTY 1/2 |
| 0.669 | 17 | 0.945 | 24 | 1.299 | 33 | GAY15 NPPB | CJT 03 | 2150 | 9600 | 1070 | 4750 | PCJTY 15 |
| 0.669 | 17 | 0.945 | 24 | 1.299 | 33 | GAY010 NPPB | CJT 03 | 2150 | 9600 | 1070 | 4750 | PCJTY 5/8 |
| 0.669 | 17 | 0.945 | 24 | 1.299 | 33 | GAY17 NPPB | CJT 03 | 2150 | 9600 | 1070 | 4750 | PCJTY 17 |
| 0.748 | 19 | 1.161 | 29.5 | 1.457 | 37 | GAY012 NPPB | CJT 04 | 2900 | 12800 | 1480 | 6600 | PCJTY 3/4 |
| 0.748 | 19 | 1.102 | 28 | 1.457 | 37 | GAY20 NPPB | CJT 04 | 2900 | 12800 | 1480 | 6600 | PCJTY 20 |
| 0.748 | 19 | 1.083 | 27.5 | 1.516 | 38.5 | GAY014 NPPB | CJT 05 | 3150 | 14000 | 1760 | 7800 | PCJTY 7/8 |
| 0.748 | 19 | 1.043 | 26.5 | 1.516 | 38.5 | GAY25 NPPB | CJT 05 | 3150 | 14000 | 1760 | 7800 | PCJTY 25 |
| 0.748 | 19 | 1.083 | 27.5 | 1.516 | 38.5 | GAY100 NPPB | CJT 05 | 3150 | 14000 | 1760 | 7800 | PCJTY 1 |
| 0.787 | 20 | 1.142 | 29 | 1.614 | 41 | GAY30 NPPB | CJT 06 | 4350 | 19500 | 2550 | 11300 | PCJTY 30 |
| 0.787 | 20 | 1.280 | 32.5 | 1.614 | 41 | GAY103 NPPB | CJT 06 | 4350 | 19500 | 2550 | 11300 | PCJTY 1-3/16 |
| 0.827 | 21 | 1.358 | 34.5 | 1.831 | 46.5 | GAY104 NPPB | CJT 07 | 5800 | 25500 | 3450 | 15300 | PCJTY 1-1/4 |
| 0.827 | 21 | 1.201 | 30.5 | 1.831 | 46.5 | GAY35 NPPB | CJT 07 | 5800 | 25500 | 3450 | 15300 | PCJTY 35 |
| 0.827 | 21 | 1.358 | 34.5 | 1.831 | 46.5 | GAY107 NPPB | CJT 07 | 5800 | 25500 | 3450 | 15300 | PCJTY 1-7/16 |
| 0.945 | 24 | 1.496 | 38 | 2.087 | 53 | GAY108 NPPB | CJT 08 | 7300 | 32500 | 4450 | 19800 | PCJTY 1-1/2 |
| 0.945 | 24 | 1.358 | 34.5 | 2.087 | 53 | GAY40 NPPB | CJT 08 | 7300 | 32500 | 4450 | 19800 | PCJTY 40 |
| 0.945 | 24 | 1.516 | 38.5 | 2.146 | 54.5 | GAY112 NPPB | CJT 09 | 7400 | 32500 | 4600 | 20400 | PCJTY 1-3/4 |
| 0.945 | 24 | 1.516 | 38.5 | 2.146 | 54.5 | GAY45 NPPB | CJT 09 | 7400 | 32500 | 4600 | 20400 | PCJTY 45 |
| 1.102 | 28 | 1.693 | 43 | 2.362 | 60 | GAY115 NPPB | CJT 10 | 7900 | 35000 | 5200 | 23200 | PCJTY 1-15/16 |
| 1.102 | 28 | 1.535 | 39 | 2.362 | 60 | GAY50 NPPB | CJT 10 | 7900 | 35000 | 5200 | 23200 | PCJTY 50 |

# Oval Flanged Housings
## RCJT SERIES

- Two bolt mounting
- Eccentric locking collar
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

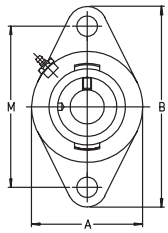


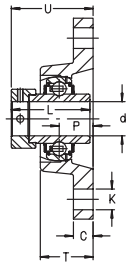

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| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJT 1/2 | 1/2 | 0.500 | 12.7 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.469 | 37.3 | 3.012 | 76.5 | 0.882 | 0.4 |
| RCJT 15 | - | 0.591 | 15 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.469 | 37.3 | 3.012 | 76.5 | 0.882 | 0.4 |
| RCJT 5/8 | 5/8 | 0.625 | 15.9 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.469 | 37.3 | 3.012 | 76.5 | 0.882 | 0.4 |
| RCJT 3/4 | 3/4 | 0.750 | 19.1 | 2.441 | 62 | 4.409 | 112 | 0.433 | 11 | 0.453 | 11.5 | 1.721 | 43.7 | 3.543 | 90 | 1.103 | 0.5 |
| RCJT 20 | - | 0.787 | 20 | 2.402 | 61 | 4.409 | 112 | 0.394 | 10 | 0.453 | 11.5 | 1.721 | 43.7 | 3.543 | 90 | 1.103 | 0.5 |
| RCJT 7/8 | 7/8 | 0.875 | 22.2 | 2.795 | 71 | 4.921 | 125 | 0.472 | 12 | 0.453 | 11.5 | 1.748 | 44.4 | 3.898 | 99 | 1.544 | 0.7 |
| RCJT 15/16 | 15/16 | 0.938 | 23.8 | 2.795 | 71 | 4.921 | 125 | 0.472 | 12 | 0.453 | 11.5 | 1.748 | 44.4 | 3.898 | 99 | 1.544 | 0.7 |
| RCJT 25 | - | 0.984 | 25 | 2.756 | 70 | 4.882 | 124 | 0.433 | 11 | 0.453 | 11.5 | 1.748 | 44.4 | 3.898 | 99 | 1.544 | 0.7 |
| RCJT 1 | 1 | 1.000 | 25.4 | 2.795 | 71 | 4.921 | 125 | 0.472 | 12 | 0.453 | 11.5 | 1.748 | 44.4 | 3.898 | 99 | 1.544 | 0.7 |
| RCJT 1-1/8 | 1-1/8 | 1.125 | 28.6 | 3.169 | 80.5 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.906 | 48.4 | 4.587 | 116.5 | 2.205 | 1 |
| RCJT 30 | - | 1.181 | 30 | 3.150 | 80 | 5.591 | 142 | 0.472 | 12 | 0.453 | 11.5 | 1.906 | 48.4 | 4.587 | 116.5 | 2.205 | 1 |
| RCJT 1-3/16 | 1-3/16 | 1.188 | 30.2 | 3.169 | 80.5 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.906 | 48.4 | 4.587 | 116.5 | 2.205 | 1 |
| RCJT 1-1/4 | 1-1/4 | 1.250 | 31.8 | 3.642 | 92.5 | 6.142 | 156 | 0.551 | 14 | 0.551 | 14 | 2.012 | 51.1 | 5.118 | 130 | 2.867 | 1.3 |
| RCJT 1-3/8 | 1-3/8 | 1.375 | 34.9 | 3.642 | 92.5 | 6.142 | 156 | 0.551 | 14 | 0.551 | 14 | 2.012 | 51.1 | 5.118 | 130 | 2.867 | 1.3 |
| RCJT 35 | - | 1.378 | 35 | 3.622 | 92 | 6.102 | 155 | 0.492 | 12.5 | 0.551 | 14 | 2.012 | 51.1 | 5.118 | 130 | 2.867 | 1.3 |
| RCJT 1-7/16 | 1-7/16 | 1.438 | 36.5 | 3.642 | 92.5 | 6.142 | 156 | 0.551 | 14 | 0.551 | 14 | 2.012 | 51.1 | 5.118 | 130 | 2.867 | 1.3 |
| RCJT 1-1/2 | 1-1/2 | 1.500 | 38.1 | 4.154 | 105.5 | 6.811 | 173 | 0.591 | 15 | 0.551 | 14 | 2.217 | 56.3 | 5.650 | 143.5 | 3.969 | 1.8 |
| RCJT 40 | - | 1.575 | 40 | 4.134 | 105 | 6.772 | 172 | 0.512 | 13 | 0.551 | 14 | 2.217 | 56.3 | 5.650 | 143.5 | 3.969 | 1.8 |
| RCJT 1-5/8 | 1-5/8 | 1.625 | 41.3 | 4.409 | 112 | 7.106 | 180.5 | 0.591 | 15 | 0.551 | 14 | 2.217 | 56.3 | 5.847 | 148.5 | 4.631 | 2.1 |
| RCJT 1-11/16 | 1-11/16 | 1.688 | 42.9 | 4.409 | 112 | 7.106 | 180.5 | 0.591 | 15 | 0.551 | 14 | 2.217 | 56.3 | 5.847 | 148.5 | 4.631 | 2.1 |
| RCJT 1-3/4 | 1-3/4 | 1.750 | 44.5 | 4.409 | 112 | 7.106 | 180.5 | 0.591 | 15 | 0.551 | 14 | 2.217 | 56.3 | 5.847 | 148.5 | 4.631 | 2.1 |
| RCJT 45 | - | 1.772 | 45 | 4.409 | 112 | 7.106 | 180.5 | 0.512 | 13 | 0.551 | 14 | 2.217 | 56.3 | 5.847 | 148.5 | 4.631 | 2.1 |
| RCJT 1-15/16 | 1-15/16 | 1.938 | 49.2 | 4.587 | 116.5 | 7.520 | 191 | 0.630 | 16 | 0.669 | 17 | 2.469 | 62.7 | 6.181 | 157 | 5.513 | 2.5 |
| RCJT 50 | - | 1.969 | 50 | 4.567 | 116 | 7.480 | 190 | 0.512 | 13 | 0.709 | 18 | 2.469 | 62.7 | 6.181 | 157 | 5.513 | 2.5 |
| RCJT 2 | 2 | 2.000 | 50.8 | 5.295 | 134.5 | 8.898 | 226 | 0.669 | 17 | 0.669 | 17 | 2.811 | 71.4 | 7.244 | 184 | 8.600 | 3.9 |
| RCJT 55 | - | 2.165 | 55 | 5.295 | 134.5 | 8.898 | 226 | 0.669 | 17 | 0.669 | 17 | 2.811 | 71.4 | 7.244 | 184 | 8.600 | 3.9 |
| RCJT 2-3/16 | 2-3/16 | 2.188 | 55.6 | 5.295 | 134.5 | 8.898 | 226 | 0.669 | 17 | 0.669 | 17 | 2.811 | 71.4 | 7.244 | 184 | 8.600 | 3.9 |
| RCJT 60 | - | 2.362 | 60 | 5.433 | 138 | 9.370 | 238 | 0.630 | 16 | 0.709 | 18 | 3.063 | 77.8 | 7.953 | 202 | 9.482 | 4.3 |
| RCJT 2-7/16 | 2-7/16 | 2.438 | 61.9 | 5.512 | 140 | 9.409 | 239 | 0.709 | 18 | 0.709 | 18 | 3.063 | 77.8 | 7.953 | 202 | 9.482 | 4.3 |
| RCJT 65 | - | 2.559 | 65 | 6.299 | 160 | 10.157 | 258 | 0.709 | 18 | 0.827 | 21 | 2.602 | 66.1 | 8.504 | 216 | 14.134 | 6.4 |
| RCJT 70 | - | 2.756 | 70 | 6.299 | 160 | 10.157 | 258 | 0.709 | 18 | 0.827 | 21 | 2.602 | 66.1 | 8.504 | 216 | 13.561 | 6.2 |
| RCJT 75 | - | 2.953 | 75 | 6.299 | 160 | 10.157 | 258 | 0.709 | 18 | 0.827 | 21 | 2.642 | 67.1 | 8.504 | 216 | 13.230 | 6 |

# Oval Flanged Housings
## RCJT SERIES

- Two bolt mounting
- Eccentric locking collar
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards



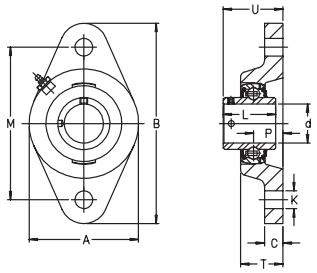




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.669 | 17 | 0.945 | 24 | 1.591 | 40.4 | G1008 KRRB | CJT 03 | 2150 | 9600 | 1070 | 4750 | RCJT 1/2 |
| 0.669 | 17 | 0.945 | 24 | 1.591 | 40.4 | GE15 KRRB | CJT 03 | 2150 | 9600 | 1070 | 4750 | RCJT 15 |
| 0.669 | 17 | 0.945 | 24 | 1.591 | 40.4 | G1010 KRRB | CJT 03 | 2150 | 9600 | 1070 | 4750 | RCJT 5/8 |
| 0.748 | 19 | 1.161 | 29.5 | 1.795 | 45.6 | G1012 KRRB | CJT 04 | 2900 | 12800 | 1480 | 6600 | RCJT 3/4 |
| 0.748 | 19 | 1.161 | 29.5 | 1.795 | 45.6 | GE20 KRRB | CJT 04 | 2900 | 12800 | 1480 | 6600 | RCJT 20 |
| 0.748 | 19 | 1.083 | 27.5 | 1.807 | 45.9 | G1014 KRRB | CJT 05 | 3150 | 14000 | 1760 | 7800 | RCJT 7/8 |
| 0.748 | 19 | 1.083 | 27.5 | 1.807 | 45.9 | G1015KRRB | CJT 05 | 3150 | 14000 | 1760 | 7800 | RCJT 15/16 |
| 0.748 | 19 | 1.043 | 26.5 | 1.807 | 45.9 | GE25 KRRB | CJT 05 | 3150 | 14000 | 1760 | 7800 | RCJT 25 |
| 0.748 | 19 | 1.083 | 27.5 | 1.807 | 45.9 | G1100 KRRB | CJT 05 | 3150 | 14000 | 1760 | 7800 | RCJT 1 |
| 0.787 | 20 | 1.280 | 32.5 | 1.972 | 50.1 | G1102 KRRB | CJT 06 | 4350 | 19500 | 2550 | 11300 | RCJT 1-1/8 |
| 0.787 | 20 | 1.142 | 29 | 1.972 | 50.1 | GE30 KRRB | CJT 06 | 4350 | 19500 | 2550 | 11300 | RCJT 30 |
| 0.787 | 20 | 1.280 | 32.5 | 1.972 | 50.1 | G1103 KRRB | CJT 06 | 4350 | 19500 | 2550 | 11300 | RCJT 1-3/16 |
| 0.827 | 21 | 1.358 | 34.5 | 2.098 | 53.3 | G1104 KRRB | CJT 07 | 5800 | 25500 | 3450 | 15300 | RCJT 1-1/4 |
| 0.827 | 21 | 1.358 | 34.5 | 2.098 | 53.3 | G1106 KRRB | CJT 07 | 5800 | 25500 | 3450 | 15300 | RCJT 1-3/8 |
| 0.827 | 21 | 1.201 | 30.5 | 2.098 | 53.3 | GE35 KRRB | CJT 07 | 5800 | 25500 | 3450 | 15300 | RCJT 35 |
| 0.827 | 21 | 1.358 | 34.5 | 2.098 | 53.3 | G1107 KRRB | CJT 07 | 5800 | 25500 | 3450 | 15300 | RCJT 1-7/16 |
| 0.945 | 24 | 1.496 | 38 | 2.319 | 58.9 | G1108 KRRB | CJT 08 | 7300 | 32500 | 4450 | 19800 | RCJT 1-1/2 |
| 0.945 | 24 | 1.358 | 34.5 | 2.319 | 58.9 | GE40 KRRB | CJT 08 | 7300 | 32500 | 4450 | 19800 | RCJT 40 |
| 0.945 | 24 | 1.516 | 38.5 | 2.319 | 58.9 | G1110KRRB | CJT 09 | 7400 | 32500 | 4600 | 20400 | RCJT 1-5/8 |
| 0.945 | 24 | 1.516 | 38.5 | 2.319 | 58.9 | G1111KRRB | CJT 09 | 7400 | 32500 | 4600 | 20400 | RCJT 1-11/16 |
| 0.945 | 24 | 1.516 | 38.5 | 2.319 | 58.9 | G1112 KRRB | CJT 09 | 7400 | 32500 | 4600 | 20400 | RCJT 1-3/4 |
| 0.945 | 24 | 1.516 | 38.5 | 2.319 | 58.9 | GE45 KRRB | CJT 09 | 7400 | 32500 | 4600 | 20400 | RCJT 45 |
| 1.102 | 28 | 1.693 | 43 | 2.602 | 66.1 | G1115 KRRB | CJT 10 | 7900 | 35000 | 5200 | 23200 | RCJT 1-15/16 |
| 1.102 | 28 | 1.693 | 43 | 2.602 | 66.1 | GE50 KRRB | CJT 10 | 7900 | 35000 | 5200 | 23200 | RCJT 50 |
| 1.221 | 31 | 1.535 | 39 | 2.937 | 74.6 | G1200 KRRB | CJT 11 | 9800 | 43500 | 6600 | 29000 | RCJT 2 |
| 1.221 | 31 | 1.811 | 46 | 2.937 | 74.6 | GE55 KRRB | CJT 11 | 9800 | 43500 | 6600 | 29000 | RCJT 55 |
| 1.221 | 31 | 1.811 | 46 | 2.937 | 74.6 | G1203 KRRB | CJT 11 | 9800 | 43500 | 6600 | 29000 | RCJT 2-3/16 |
| 1.339 | 34 | 1.949 | 49.5 | 3.181 | 80.8 | GE60 KRRB | CJT 12 | 11800 | 52000 | 8100 | 36000 | RCJT 60 |
| 1.339 | 34 | 1.949 | 49.5 | 3.181 | 80.8 | G1207 KRRB | CJT 12 | 11800 | 52000 | 8100 | 36000 | RCJT 2-7/16 |
| 1.496 | 38 | 1.811 | 46 | 3.252 | 82.6 | GE65 KRRB | CJT 13/14 | 14000 | 62000 | 9900 | 44000 | RCJT 65 |
| 1.496 | 38 | 2.244 | 57 | 3.252 | 82.6 | GE70 KRRB | CJT 13/14 | 14000 | 62000 | 9900 | 44000 | RCJT 70 |
| 1.496 | 38 | 2.244 | 57 | 3.291 | 83.6 | GE75 KRRB | CJT 15 | 14000 | 62000 | 10100 | 44500 | RCJT 75 |

# Oval Flanged Housings
## RCJTY SERIES

- Two bolt mounting
- Set screw shaft locking
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

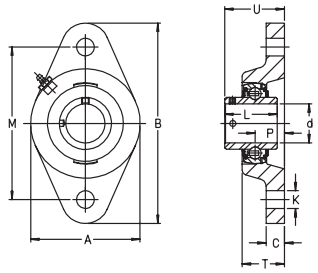



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJTY 1/2 | 1/2 | 0.500 | 12.7 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.079 | 27.4 | 3.012 | 76.5 | 0.882 | 0.4 |
| RCJTY 15 | - | 0.591 | 15 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.079 | 27.4 | 3.012 | 76.5 | 0.882 | 0.4 |
| RCJTY 5/8 | 5/8 | 0.625 | 15.9 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.079 | 27.4 | 3.012 | 76.5 | 0.882 | 0.4 |
| RCJTY 17 | - | 0.669 | 17 | 2.244 | 57 | 3.898 | 99 | 0.394 | 10 | 0.453 | 11.5 | 1.079 | 27.4 | 3.012 | 76.5 | 0.882 | 0.4 |
| RCJTY 3/4 | 3/4 | 0.750 | 19.1 | 2.244 | 57 | 4.409 | 112 | 0.433 | 11 | 0.453 | 11.5 | 1.221 | 31 | 3.543 | 90 | 1.103 | 0.5 |
| RCJTY 20 | - | 0.787 | 20 | 2.441 | 62 | 4.409 | 112 | 0.394 | 10 | 0.453 | 11.5 | 1.221 | 31 | 3.543 | 90 | 1.103 | 0.5 |
| RCJTY 7/8 | 7/8 | 0.875 | 22.2 | 2.402 | 61 | 4.921 | 125 | 0.472 | 12 | 0.453 | 11.5 | 1.343 | 34.1 | 3.898 | 99 | 1.544 | 0.7 |
| RCJTY 15/16 | 15/16 | 0.938 | 23.8 | 2.795 | 71 | 4.921 | 125 | 0.472 | 12 | 0.453 | 11.5 | 1.343 | 34.1 | 3.898 | 99 | 1.544 | 0.7 |
| RCJTY 25 | - | 0.984 | 25 | 2.795 | 71 | 4.882 | 124 | 0.433 | 11 | 0.453 | 11.5 | 1.343 | 34.1 | 3.898 | 99 | 1.544 | 0.7 |
| RCJTY 1 | 1 | 1.000 | 25.4 | 2.795 | 71 | 4.921 | 125 | 0.472 | 12 | 0.453 | 11.5 | 1.343 | 34.1 | 3.898 | 99 | 1.544 | 0.7 |
| RCJTY 1-1/8 | 1-1/8 | 1.125 | 28.6 | 3.169 | 80.5 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.500 | 38.1 | 4.587 | 116.5 | 2.205 | 1.0 |
| RCJTY 30 | - | 1.181 | 30 | 3.150 | 80 | 5.591 | 142 | 0.472 | 12 | 0.453 | 11.5 | 1.500 | 38.1 | 4.587 | 116.5 | 2.205 | 1.0 |
| RCJTY 1-3/16 | 1-3/16 | 1.188 | 30.2 | 3.169 | 80.5 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.500 | 38.1 | 4.587 | 116.5 | 2.205 | 1.0 |
| RCJTY 1-1/4-206 | 1-1/4 | 1.250 | 31.8 | 3.169 | 80.5 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.500 | 38.1 | 4.587 | 116.5 | 2.205 | 1.0 |
| RCJTY 1-1/4 | 1-1/4 | 1.250 | 31.8 | 3.642 | 92.5 | 6.142 | 156 | 0.551 | 14 | 0.551 | 14 | 1.689 | 42.9 | 5.118 | 130 | 2.867 | 1.3 |
| RCJTY 1-3/8 | 1-3/8 | 1.375 | 34.9 | 3.642 | 92.5 | 6.142 | 156 | 0.551 | 14 | 0.551 | 14 | 1.689 | 42.9 | 5.118 | 130 | 2.867 | 1.3 |
| RCJTY 35 | - | 1.378 | 35 | 3.622 | 92 | 6.102 | 155 | 0.492 | 12.5 | 0.551 | 14 | 1.689 | 42.9 | 5.118 | 130 | 2.867 | 1.3 |
| RCJTY 1-7/16 | 1-7/16 | 1.438 | 36.5 | 3.622 | 92 | 6.142 | 156 | 0.551 | 14 | 0.551 | 14 | 1.689 | 42.9 | 5.118 | 130 | 2.867 | 1.3 |
| RCJTY 1-1/2 | 1-1/2 | 1.500 | 38.1 | 3.642 | 92.5 | 6.811 | 173 | 0.591 | 15 | 0.551 | 14 | 1.937 | 49.2 | 5.650 | 143.5 | 3.969 | 1.8 |
| RCJTY 40 | - | 1.575 | 40 | 4.154 | 105.5 | 6.772 | 172 | 0.512 | 13 | 0.551 | 14 | 1.937 | 49.2 | 5.650 | 143.5 | 3.969 | 1.8 |
| RCJTY 1-5/8 | 1-5/8 | 1.625 | 41.3 | 4.134 | 105 | 7.106 | 180.5 | 0.591 | 15 | 0.551 | 14 | 1.937 | 49.2 | 5.847 | 148.5 | 4.631 | 2.1 |
| RCJTY 1-11/16 | 1-11/16 | 1.688 | 42.9 | 4.409 | 112 | 7.106 | 180.5 | 0.591 | 15 | 0.551 | 14 | 1.937 | 49.2 | 5.847 | 148.5 | 4.631 | 2.1 |
| RCJTY 1-3/4 | 1-3/4 | 1.750 | 44.5 | 4.409 | 112 | 7.106 | 180.5 | 0.591 | 15 | 0.551 | 14 | 1.937 | 49.2 | 5.847 | 148.5 | 4.631 | 2.1 |
| RCJTY 45 | - | 1.772 | 45 | 4.409 | 112 | 7.106 | 180.5 | 0.512 | 13 | 0.551 | 14 | 1.937 | 49.2 | 5.847 | 148.5 | 4.631 | 2.1 |
| RCJTY 1-15/16 | 1-15/16 | 1.938 | 49.2 | 4.409 | 112 | 7.520 | 191 | 0.630 | 16 | 0.669 | 17 | 2.032 | 51.6 | 6.181 | 157 | 5.513 | 2.5 |
| RCJTY 50 | - | 1.969 | 50 | 4.587 | 116.5 | 7.480 | 190 | 0.512 | 13 | 0.709 | 18 | 2.032 | 51.6 | 6.181 | 157 | 5.513 | 2.5 |
| RCJTY 2 | 2 | 2.000 | 50.8 | 4.567 | 116 | 8.898 | 226 | 0.669 | 17 | 0.669 | 17 | 2.189 | 55.6 | 7.244 | 184 | 8.600 | 3.9 |
| RCJTY 55 | | 2.165 | 55 | 5.295 | 134.5 | 8.898 | 226 | 0.669 | 17 | 0.669 | 17 | 2.189 | 55.6 | 7.244 | 184 | 8.600 | 3.9 |
| RCJTY 2-3/16 | 2-3/16 | 2.188 | 55.6 | 5.295 | 134.5 | 8.898 | 226 | 0.669 | 17 | 0.669 | 17 | 2.189 | 55.6 | 7.244 | 184 | 8.600 | 3.9 |
| RCJTY 60 | - | 2.362 | 60 | 5.433 | 138 | 9.370 | 238 | 0.630 | 16 | 0.709 | 18 | 2.563 | 65.1 | 7.953 | 202 | 9.482 | 4.3 |
| RCJTY 2-7/16 | 2-7/16 | 2.438 | 61.9 | 5.512 | 140 | 9.409 | 239 | 0.709 | 18 | 0.709 | 18 | 2.563 | 65.1 | 7.953 | 202 | 9.482 | 4.3 |
| RCJTY 65 | | 2.559 | 65 | 6.299 | 160 | 10.157 | 258 | 0.709 | 18 | 0.827 | 21 | 2.937 | 74.6 | 8.504 | 216 | 13.120 | 6.0 |
| RCJTY 70 | | 2.756 | 70 | 6.299 | 160 | 10.157 | 258 | 0.709 | 18 | 0.827 | 21 | 2.937 | 74.6 | 8.504 | 216 | 12.460 | 5.7 |
| RCJTY 75 | | 2.953 | 75 | 6.299 | 160 | 10.157 | 258 | 0.709 | 18 | 0.827 | 21 | 3.063 | 77.8 | 8.504 | 216 | 12.210 | 5.5 |

# Oval Flanged Housings
## RCJTY SERIES

- Two bolt mounting
- Set screw shaft locking
- Standard R seals
- Inch and metric sizes
- Set screws are metric for metric sizes
- Housing dimensions per ABMA standards

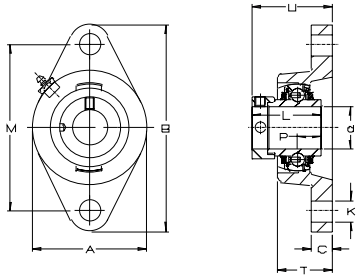



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.669 | 17 | 0.945 | 24 | 1.295 | 32.9 | GY1008 KRRB | CJT 03 | 2150 | 9600 | 1070 | 4750 | RCJTY 1/2 |
| 0.669 | 17 | 0.945 | 24 | 1.295 | 32.9 | GYE15 KRRB | CJT 03 | 2150 | 9600 | 1070 | 4750 | RCJTY 15 |
| 0.669 | 17 | 0.945 | 24 | 1.295 | 32.9 | GY1010 KRRB | CJT 03 | 2150 | 9600 | 1070 | 4750 | RCJTY 5/8 |
| 0.669 | 17 | 0.945 | 24 | 1.295 | 32.9 | GYE17 KRRB | CJT 03 | 2150 | 9600 | 1070 | 4750 | RCJTY 17 |
| 0.748 | 19 | 1.161 | 29.5 | 1.469 | 37.3 | GY1012 KRRB | CJT 04 | 2900 | 12800 | 1480 | 6600 | RCJTY 3/4 |
| 0.748 | 19 | 1.102 | 28 | 1.469 | 37.3 | GYE20 KRRB | CJT 04 | 2900 | 12800 | 1480 | 6600 | RCJTY 20 |
| 0.748 | 19 | 1.083 | 27.5 | 1.528 | 38.8 | GY1014 KRRB | CJT 05 | 3150 | 14000 | 1760 | 7800 | RCJTY 7/8 |
| 0.748 | 19 | 1.083 | 27.5 | 1.528 | 38.8 | GY1015 KRRB | CJT 05 | 3150 | 14000 | 1760 | 7800 | RCJTY 15/16 |
| 0.748 | 19 | 1.043 | 26.5 | 1.528 | 38.8 | GYE25 KRRB | CJT 05 | 3150 | 14000 | 1760 | 7800 | RCJTY 25 |
| 0.748 | 19 | 1.083 | 27.5 | 1.528 | 38.8 | GY1100 KRRB | CJT 05 | 3150 | 14000 | 1760 | 7800 | RCJTY 1 |
| 0.787 | 20 | 1.280 | 32.5 | 1.661 | 42.2 | GY1102 KRRB | CJT 06 | 4350 | 19500 | 2550 | 11300 | RCJTY 1-1/8 |
| 0.787 | 20 | 1.142 | 29 | 1.661 | 42.2 | GYE30 KRRB | CJT 06 | 4350 | 19500 | 2550 | 11300 | RCJTY 30 |
| 0.787 | 20 | 1.280 | 32.5 | 1.661 | 42.2 | GY1103 KRRB | CJT 06 | 4350 | 19500 | 2550 | 11300 | RCJTY 1-3/16 |
| 0.787 | 20 | 1.280 | 32.5 | 1.661 | 42.2 | GY1104 KRRB-206 | CJT 06 | 4350 | 19500 | 2550 | 11300 | RCJTY 1-1/4-206 |
| 0.827 | 21 | 1.358 | 34.5 | 1.827 | 46.4 | GY1104 KRRB | CJT 07 | 5800 | 25500 | 3450 | 15300 | RCJTY 1-1/4 |
| 0.827 | 21 | 1.358 | 34.5 | 1.827 | 46.4 | GY1106 KRRB | CJT 07 | 5800 | 25500 | 3450 | 15300 | RCJTY 1-3/8 |
| 0.827 | 21 | 1.201 | 31 | 1.827 | 46.4 | GYE35 KRRB | CJT 07 | 5800 | 25500 | 3450 | 15300 | RCJTY 35 |
| 0.827 | 21 | 1.358 | 34.5 | 1.827 | 46.4 | GY1107 KRRB | CJT 07 | 5800 | 25500 | 3450 | 15300 | RCJTY 1-7/16 |
| 0.945 | 24 | 1.496 | 38 | 2.134 | 54.2 | GY1108 KRRB | CJT 08 | 7300 | 32500 | 4450 | 19800 | RCJTY 1-1/2 |
| 0.945 | 24 | 1.358 | 34.5 | 2.134 | 54.2 | GYE40 KRRB | CJT 08 | 7300 | 32500 | 4450 | 19800 | RCJTY 40 |
| 0.945 | 24 | 1.516 | 38.5 | 2.134 | 54.2 | GY1110 KRRB | CJT 09 | 7400 | 32500 | 4600 | 20400 | RCJTY 1-5/8 |
| 0.945 | 24 | 1.516 | 38.5 | 2.134 | 54.2 | GY1111 KRRB | CJT 09 | 7400 | 32500 | 4600 | 20400 | RCJTY 1-11/16 |
| 0.945 | 24 | 1.516 | 38.5 | 2.134 | 54.2 | GY1112 KRRB | CJT 09 | 7400 | 32500 | 4600 | 20400 | RCJTY 1-3/4 |
| 0.945 | 24 | 1.516 | 38.5 | 2.134 | 54.2 | GYE45 KRRB | CJT 09 | 7400 | 32500 | 4600 | 20400 | RCJTY 45 |
| 1.102 | 28 | 1.693 | 43 | 2.386 | 60.6 | GY1115 KRRB | CJT 10 | 7900 | 35000 | 5200 | 23200 | RCJTY 1-15/16 |
| 1.102 | 28 | 1.535 | 39 | 2.386 | 60.6 | GYE50 KRRB | CJT 10 | 7900 | 35000 | 5200 | 23200 | RCJTY 50 |
| 1.221 | 31 | 1.811 | 46 | 2.535 | 64.4 | GY1200 KRRB | CJT 11 | 9800 | 43500 | 6600 | 29000 | RCJTY 2 |
| 1.221 | 31 | 1.811 | 46 | 2.535 | 64.4 | GYE55 KRRB | CJT 11 | 9800 | 43500 | 6600 | 29000 | RCJTY 60 |
| 1.221 | 31 | 1.811 | 46 | 2.535 | 64.4 | GY1203 KRRB | CJT 11 | 9800 | 43500 | 6600 | 29000 | RCJTY 2-3/16 |
| 1.339 | 34 | 1.949 | 49.5 | 2.902 | 73.7 | GYE60 KRRB | CJT 12 | 11800 | 52000 | 8100 | 36000 | RCJTY 60 |
| 1.339 | 34 | 1.949 | 49.5 | 2.902 | 73.7 | GY1207 KRRB | CJT 12 | 11800 | 52000 | 8100 | 36000 | RCJTY 2-7/16 |
| 1.496 | 38 | 2.244 | 57 | 3.244 | 82.4 | GYE65 KRRB | CJT 13/14 | 14000 | 62000 | 9900 | 44000 | RCJTY 65 |
| 1.496 | 38 | 2.244 | 57 | 3.244 | 82.4 | GYE70 KRRB | CJT 13/14 | 14000 | 62000 | 9900 | 44000 | RCJTY 70 |
| 1.496 | 38 | 2.244 | 57 | 3.244 | 82.4 | GYE75 KRRB | CJT 15 | 14000 | 62000 | 10100 | 44500 | RCJTY 75 |

# Oval Flanged Housings
## TCJT SERIES

- Two bolt mounting
- Metric series
- Eccentric locking collar
- Tri-ply P3 seals
- Inner ring extended on both sides




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

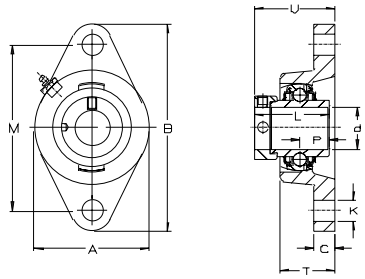
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCJT 20 | - | 0.787 | 20 | 2.402 | 61 | 4.409 | 112 | 0.394 | 10 | 0.453 | 11.5 | 1.721 | 43.7 | 3.543 | 90 | 1.103 | 0.5 |
| TCJT 25 | - | 0.984 | 25 | 2.756 | 70 | 4.882 | 124 | 0.433 | 11 | 0.453 | 11.5 | 1.748 | 44.4 | 3.898 | 99 | 1.544 | 0.7 |
| TCJT 30 | - | 1.181 | 30 | 3.150 | 80 | 5.591 | 142 | 0.472 | 12 | 0.453 | 11.5 | 1.906 | 48.4 | 4.587 | 116.5 | 2.205 | 1 |
| TCJT 35 | - | 1.378 | 35 | 3.622 | 92 | 6.102 | 155 | 0.492 | 12.5 | 0.551 | 14 | 2.012 | 51.1 | 5.118 | 130 | 2.867 | 1.3 |
| TCJT 40 | - | 1.575 | 40 | 4.134 | 105 | 6.772 | 172 | 0.512 | 13 | 0.551 | 14 | 2.217 | 56.3 | 5.650 | 143.5 | 3.969 | 1.8 |
| TCJT 45 | - | 1.772 | 45 | 4.409 | 112 | 7.106 | 180.5 | 0.512 | 13 | 0.551 | 14 | 2.217 | 56.3 | 5.847 | 148.5 | 4.631 | 2.1 |
| TCJT 50 | - | 1.969 | 50 | 4.567 | 116 | 7.480 | 190 | 0.512 | 13 | 0.709 | 18 | 2.469 | 62.7 | 6.181 | 157 | 5.513 | 2.5 |
| TCJT 55 | - | 2.165 | 55 | 5.295 | 134.5 | 8.898 | 226 | 0.669 | 17 | 0.669 | 17 | 2.811 | 71.4 | 7.244 | 184 | 8.600 | 3.9 |
| TCJT 60 | - | 2.362 | 60 | 5.433 | 138 | 9.370 | 238 | 0.630 | 16 | 0.709 | 18 | 3.063 | 77.8 | 7.953 | 202 | 9.482 | 4.3 |
| TCJT 65 | - | 2.559 | 65 | 6.299 | 160 | 10.157 | 258 | 0.709 | 18 | 0.827 | 21 | 2.602 | 66.1 | 8.504 | 216 | 14.134 | 6.4 |
| TCJT 70 | - | 2.756 | 70 | 6.299 | 160 | 10.157 | 258 | 0.709 | 18 | 0.827 | 21 | 2.602 | 66.1 | 8.504 | 216 | 13.561 | 6.2 |
| TCJT 75 | - | 2.953 | 75 | 6.299 | 160 | 10.157 | 258 | 0.709 | 18 | 0.827 | 21 | 2.642 | 67.1 | 8.504 | 216 | 13.230 | 6 |

**CONTINUED FROM ABOVE**

| PART NUMBER | P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TCJT 20 | 0.748 | 19 | 1.102 | 28 | 1.795 | 45.6 | GE20 KPPB-3 | CJT 04 | 2900 | 12800 | 1480 | 6600 |
| TCJT 25 | 0.748 | 19 | 1.043 | 26.5 | 1.807 | 45.9 | GE25 KPPB-3 | CJT 05 | 3150 | 14000 | 1760 | 7800 |
| TCJT 30 | 0.787 | 20 | 1.142 | 29 | 1.972 | 50.1 | GE30 KPPB-3 | CJT 06 | 4350 | 19500 | 2550 | 11300 |
| TCJT 35 | 0.827 | 21 | 1.201 | 30.5 | 2.098 | 53.3 | GE35 KPPB-3 | CJT 07 | 5800 | 25500 | 3450 | 15300 |
| TCJT 40 | 0.945 | 24 | 1.358 | 34.5 | 2.319 | 58.9 | GE40 KPPB-3 | CJT 08 | 7300 | 32500 | 4450 | 19800 |
| TCJT 45 | 0.945 | 24 | 1.516 | 38.5 | 2.319 | 58.9 | GE45 KPPB-3 | CJT 09 | 7400 | 32500 | 4600 | 20400 |
| TCJT 50 | 1.102 | 28 | 1.535 | 39 | 2.602 | 66.1 | GE50 KPPB-3 | CJT 10 | 7900 | 35000 | 5200 | 23200 |
| TCJT 55 | 1.221 | 31 | 1.811 | 46 | 2.937 | 74.6 | GE55 KPPB-3 | CJT 11 | 9800 | 43500 | 6600 | 29000 |
| TCJT 60 | 1.339 | 34 | 1.949 | 49.5 | 3.181 | 80.8 | GE60 KPPB-3 | CJT 12 | 11800 | 52000 | 8100 | 36000 |
| TCJT 65 | 1.496 | 38 | 2.244 | 57 | 3.252 | 82.6 | GE65 KPPB-3 | CJT 13/14 | 14000 | 62000 | 9900 | 44000 |
| TCJT 70 | 1.496 | 38 | 2.244 | 57 | 3.252 | 82.6 | GE70 KPPB-3 | CJT 13/14 | 14000 | 62000 | 9900 | 44000 |
| TCJT 75 | 1.496 | 38 | 2.244 | 57 | 3.291 | 83.6 | GE75 KPPB-3 | CJT 15 | 14000 | 62000 | 10100 | 44500 |

# Oval Flanged Housed Bearing Units
## LCJT SERIES

- Two bolt flanged mounting
- Cast iron housing
- Eccentric locking collar
- Labyrinth type L seal




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

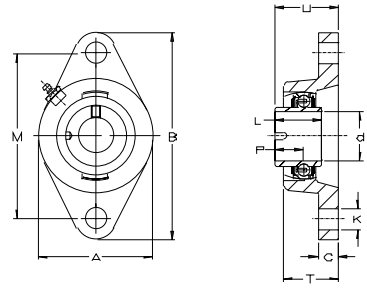
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCJT 20 | - | 0.787 | 20 | 2.441 | 62 | 4.409 | 112 | 0.394 | 10 | 0.453 | 11.5 | 1.721 | 43.7 | 3.543 | 90 | 1.103 | 0.5 |
| LCJT 25 | - | 0.984 | 25 | 2.795 | 71 | 4.882 | 124 | 0.433 | 11 | 0.453 | 11.5 | 1.748 | 44.4 | 3.898 | 99 | 1.544 | 0.7 |
| LCJT 30 | - | 1.181 | 30 | 3.150 | 80 | 5.591 | 142 | 0.472 | 12 | 0.453 | 11.5 | 1.906 | 48.4 | 4.587 | 116.5 | 2.205 | 1 |
| LCJT 35 | - | 1.378 | 35 | 3.622 | 92 | 6.142 | 156 | 0.492 | 12.5 | 0.551 | 14 | 2.012 | 51.1 | 5.118 | 130 | 2.867 | 1.3 |
| LCJT 40 | - | 1.575 | 40 | 4.134 | 105 | 6.772 | 172 | 0.512 | 13 | 0.551 | 14 | 2.217 | 56.3 | 5.65 | 143.5 | 3.969 | 1.8 |
| LCJT 45 | - | 1.772 | 45 | 4.409 | 112 | 7.106 | 180.5 | 0.512 | 13 | 0.551 | 14 | 2.217 | 56.3 | 5.847 | 148.5 | 4.631 | 2.1 |
| LCJT 50 | - | 1.969 | 50 | 4.567 | 116 | 7.520 | 191 | 0.512 | 13 | 0.709 | 18 | 2.469 | 62.7 | 6.181 | 157 | 5.513 | 2.5 |

**CONTINUED FROM ABOVE**

| PART NUMBER | P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LCJT 20 | 0.748 | 19 | 1.102 | 28 | 1.795 | 45.6 | GE20 KLLHB | CJT 04 | 2900 | 12800 | 1480 | 6600 |
| LCJT 25 | 0.748 | 19 | 1.043 | 26.5 | 1.807 | 45.9 | GE25 KLLHB | CJT 05 | 3150 | 14000 | 1760 | 7800 |
| LCJT 30 | 0.787 | 20 | 1.142 | 29 | 1.972 | 50.1 | GE30 KLLHB | CJT 06 | 4350 | 19500 | 2550 | 11300 |
| LCJT 35 | 0.827 | 21 | 1.201 | 30.5 | 2.098 | 53.3 | GE35 KLLHB | CJT 07 | 5800 | 25500 | 3450 | 15300 |
| LCJT 40 | 0.945 | 24 | 1.358 | 34.5 | 2.319 | 58.9 | GE40 KLLHB | CJT 08 | 7300 | 32500 | 4450 | 19800 |
| LCJT 45 | 0.945 | 24 | 1.516 | 38.5 | 2.319 | 58.9 | GE45 KLLHB | CJT 09 | 7400 | 32500 | 4600 | 20400 |
| LCJT 50 | 1.102 | 28 | 1.535 | 39 | 2.602 | 66.1 | GE50 KLLHB | CJT 10 | 7900 | 35000 | 5200 | 23200 |

# Oval Flanged Housings
## RCJTL SERIES

- Two bolt mounting
- Metric series
- Non-locating bearing
- R seals
- Radial internal clearance C4




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

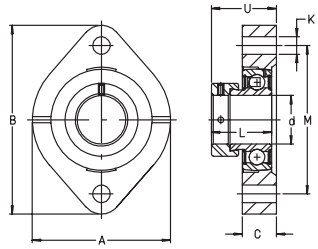
| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJTL 30 | - | 1.181 | 30 | 3.169 | 80.5 | 5.591 | 142 | 0.512 | 13 | 0.453 | 11.5 | 1.437 | 36.5 | 4.587 | 116.5 | 2.205 | 1.0 |
| RCJTL 35 | - | 1.378 | 35 | 3.642 | 92.5 | 6.142 | 156 | 0.551 | 14 | 0.551 | 14 | 1.484 | 37.7 | 5.118 | 130 | 2.867 | 1.3 |
| RCJTL 40 | - | 1.575 | 40 | 4.154 | 105.5 | 6.811 | 173 | 0.591 | 15 | 0.551 | 14 | 1.689 | 42.9 | 5.650 | 143.5 | 3.969 | 1.8 |
| RCJTL 45 | - | 1.772 | 45 | 4.409 | 112 | 7.106 | 180.5 | 0.591 | 15 | 0.551 | 14 | 1.689 | 42.9 | 5.847 | 148.5 | 4.631 | 2.1 |
| RCJTL 50 | - | 1.969 | 50 | 4.587 | 116.5 | 7.520 | 191 | 0.630 | 16 | 0.669 | 17 | 1.937 | 49.2 | 6.181 | 157 | 5.513 | 2.5 |
| RCJTL 60 | - | 2.362 | 60 | 5.512 | 140 | 9.409 | 239 | 0.709 | 18 | 0.709 | 18 | 2.437 | 61.9 | 7.953 | 202 | 9.482 | 4.3 |
| RCJTL 70 | - | 2.756 | 70 | 6.299 | 160 | 10.157 | 258 | 0.709 | 18 | 0.827 | 21 | 2.685 | 68.2 | 8.504 | 216 | 13.561 | 6.2 |

**CONTINUED FROM ABOVE**

| PART NUMBER | P inch | P mm | T inch | T mm | U inch | U mm | INSERT | HSG. | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJTL 30 | 0.787 | 20 | 1.280 | 32.5 | 1.732 | 44 | GLE30 KRRB | CJT 06 | 4350 | 19500 | 2550 | 11300 |
| RCJTL 35 | 0.827 | 21 | 1.358 | 34.5 | 1.693 | 43 | GLE35 KRRB | CJT 07 | 5800 | 25500 | 3450 | 15300 |
| RCJTL 40 | 0.945 | 24 | 1.496 | 38 | 2.008 | 51 | GLE40 KRRB | CJT 08 | 7300 | 32500 | 4450 | 19800 |
| RCJTL 45 | 0.945 | 24 | 1.516 | 38.5 | 1.949 | 49.5 | GLE45 KRRB | CJT 09 | 7400 | 32500 | 4600 | 20400 |
| RCJTL 50 | 1.102 | 28 | 1.693 | 43 | 2.291 | 58.2 | GLE50 KRRB | CJT 10 | 7900 | 35000 | 5200 | 23200 |
| RCJTL 60 | 1.339 | 34 | 1.949 | 49.5 | 2.807 | 71.3 | GLE60 KRRB | CJT 12 | 11800 | 52000 | 8100 | 36000 |
| RCJTL 70 | 1.496 | 38 | 2.244 | 57 | 3.118 | 79.2 | GLE70 KRRB | CJT 13/14 | 14000 | 62000 | 9900 | 44000 |

# Housing Units
## FLCTE, GLCTE SERIES

- Metric
- Two bolt flange
- FL, Greased for life
- GL, Relubricable




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

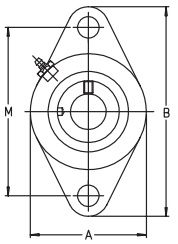
| PART NUMBER | SHAFT inch | SHAFT mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm |
|---|---|---|---|---|---|---|---|---|---|---|
| FLCTE30 | 1.181 | 30 | 3.307 | 84 | 4.429 | 112.5 | 0.807 | 20.5 | 0.453 | 11.5 |
| FLCTE35 | 1.378 | 35 | 3.701 | 94 | 4.961 | 126 | 0.866 | 22 | 0.453 | 11.5 |
| FLCTE40 | 1.575 | 40 | 3.937 | 100 | 5.906 | 150 | 0.945 | 24 | 0.551 | 14 |
| GLCTE30 | 1.181 | 30 | 3.307 | 84 | 4.429 | 112.5 | 0.807 | 20.5 | 0.453 | 11.5 |
| GLCTE35 | 1.378 | 35 | 3.701 | 94 | 4.961 | 126 | 0.866 | 22 | 0.453 | 11.5 |
| GLCTE40 | 1.575 | 40 | 3.937 | 100 | 5.906 | 150 | 0.945 | 24 | 0.551 | 14 |

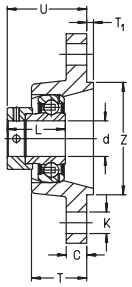
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| PART NUMBER | L inch | L mm | M inch | M mm | U inch | U mm | WGT. lbs | WGT. kg | HOUSING. | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|
| FLCTE30 | 1.406 | 35.7 | 3.563 | 90.5 | 1.500 | 38.1 | 1.676 | 0.76 | LCTE06 | RAE30NPPB |
| FLCTE35 | 1.532 | 38.9 | 3.937 | 100 | 1.646 | 41.8 | 2.249 | 1.02 | LCTE07 | RAE35NPPB |
| FLCTE40 | 1.721 | 43.7 | 4.685 | 119 | 1.819 | 46.2 | 2.800 | 1.27 | LCTE08 | RAE40NPPB |
| GLCTE30 | 1.406 | 35.7 | 3.563 | 90.5 | 1.500 | 38.1 | 1.676 | 0.76 | GLCTE06 | GRAE30NPPB |
| GLCTE35 | 1.532 | 38.9 | 3.937 | 100 | 1.646 | 41.8 | 2.249 | 1.02 | GLCTE07 | GRAE35NPPB |
| GLCTE40 | 1.721 | 43.7 | 4.685 | 119 | 1.819 | 46.2 | 2.800 | 1.27 | GLCTE08 | GRAE40NPPB |

# Housing Units
## PCJTZ SERIES

- Metric series
- 2 bolt flange
- Housing pilot
- Economy seal
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

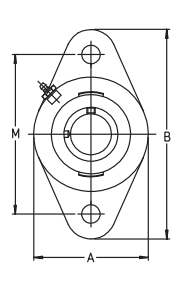
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | T inch | T mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCJTZ20 | 0.787 | 20 | 2.402 | 61 | 4.409 | 112 | 0.394 | 10 | 0.453 | 11.5 | 1.221 | 31 | 3.543 | 90 | 1.102 | 28 |
| PCJTZ25 | 0.984 | 25 | 2.756 | 70 | 4.882 | 124 | 0.433 | 11 | 0.453 | 11.5 | 1.221 | 31 | 3.898 | 99 | 1.043 | 26.5 |
| PCJTZ30 | 1.181 | 30 | 3.150 | 80 | 5.591 | 142 | 0.472 | 12 | 0.453 | 11.5 | 1.406 | 35.7 | 4.587 | 116.5 | 1.024 | 26 |
| PCJTZ35 | 1.378 | 35 | 3.622 | 92 | 6.102 | 155 | 0.492 | 12.5 | 0.551 | 14.0 | 1.532 | 38.9 | 5.118 | 130 | 1.043 | 26.5 |
| PCJTZ40 | 1.575 | 40 | 4.134 | 105 | 6.772 | 172 | 0.512 | 13 | 0.551 | 14.0 | 1.721 | 43.7 | 5.650 | 143.5 | 1.201 | 30.5 |
| PCJTZ45 | 1.772 | 45 | 4.370 | 111 | 7.087 | 180 | 0.512 | 13 | 0.551 | 14.0 | 1.721 | 43.7 | 5.847 | 148.5 | 1.221 | 31 |
| PCJTZ50 | 1.969 | 50 | 4.567 | 116 | 7.480 | 190 | 0.512 | 13 | 0.709 | 18.0 | 1.721 | 43.7 | 6.181 | 157 | 1.378 | 35 |

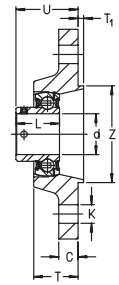
**CONTINUED FROM ABOVE**

| PART NUMBER | $T_1$ inch | $T_1$ mm | U inch | U mm | Z inch | Z mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | WEIGHT lbs | WEIGHT kg | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCJTZ20 | 0.138 | 3.5 | 1.673 | 42.5 | 2.165 | 55 | 2,900 | 12800 | 1,480 | 6600 | 1.080 | 0.490 | CJTZ04 | GRAE20NPPB |
| PCJTZ25 | 0.138 | 3.5 | 1.673 | 42.5 | 2.362 | 60 | 3,150 | 14000 | 1,750 | 7800 | 1.279 | 0.580 | CJTZ05 | GRAE25NPPB |
| PCJTZ30 | 0.118 | 3 | 1.937 | 49.2 | 3.150 | 80 | 4,400 | 19500 | 2,550 | 11300 | 1.830 | 0.830 | CJTZ06 | GRAE30NPPB |
| PCJTZ35 | 0.158 | 4 | 1.984 | 50.4 | 3.543 | 90 | 5,750 | 25500 | 3,450 | 15300 | 2.536 | 1.150 | CJTZ07 | GRAE35NPPB |
| PCJTZ40 | 0.158 | 4 | 2.232 | 56.7 | 3.937 | 100 | 7,300 | 32500 | 4,450 | 19800 | 3.462 | 1.570 | CJTZ08 | GRAE40NPPB |
| PCJTZ45 | 0.158 | 4 | 2.232 | 56.7 | 4.134 | 105 | 7,300 | 32500 | 4,600 | 20400 | 3.837 | 1.740 | CJTZ09 | GRAE45NPPB |
| PCJTZ50 | 0.158 | 4 | 2.390 | 60.7 | 4.134 | 105 | 7,850 | 35000 | 5,200 | 23200 | 4.366 | 1.980 | CJTZ10 | GRAE50NPPB |

# Housing Units
## PCJTZY SERIES

- Metric series
- 2 bolt flange
- Housing pilot
- Economy seals
- Set screw locking




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

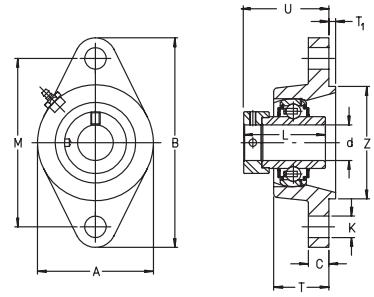
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | T inch | T mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCJTZY20 | 0.787 | 20 | 2.402 | 61 | 4.409 | 112 | 0.394 | 10 | 0.453 | 11.5 | 0.984 | 25 | 3.543 | 90 | 1.248 | 31.7 |
| PCJTZY25 | 0.984 | 25 | 2.756 | 70 | 4.882 | 124 | 0.433 | 11 | 0.453 | 11.5 | 1.063 | 27 | 3.898 | 99 | 1.043 | 26.5 |
| PCJTZY30 | 1.181 | 30 | 3.150 | 80 | 5.591 | 142 | 0.472 | 12 | 0.453 | 11.5 | 1.181 | 30 | 4.587 | 116.5 | 1.024 | 26 |
| PCJTZY35 | 1.378 | 35 | 3.622 | 92 | 6.102 | 155 | 0.492 | 12.5 | 0.551 | 14.0 | 1.378 | 35 | 5.118 | 130 | 1.043 | 26.5 |
| PCJTZY40 | 1.575 | 40 | 4.134 | 105 | 6.772 | 172 | 0.512 | 13 | 0.551 | 14.0 | 1.555 | 39.5 | 5.650 | 143.5 | 1.201 | 30.5 |
| PCJTZY45 | 1.772 | 45 | 4.370 | 111 | 7.087 | 180 | 0.512 | 13 | 0.551 | 14.0 | 1.634 | 41.5 | 5.847 | 148.5 | 1.221 | 31 |
| PCJTZY50 | 1.969 | 50 | 4.567 | 116 | 7.480 | 190 | 0.512 | 13 | 0.709 | 18.0 | 1.693 | 43 | 6.181 | 157 | 1.378 | 35 |

**CONTINUED FROM ABOVE**

| PART NUMBER | $T_1$ inch | $T_1$ mm | U inch | U mm | Z inch | Z mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | WEIGHT lbs | WEIGHT kg | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PCJTZY20 | 0.138 | 3.5 | 1.457 | 37 | 2.165 | 55 | 2,900 | 12800 | 1,480 | 6600 | 1.014 | 0.460 | CJTZ04 | GAY20NPPB |
| PCJTZY25 | 0.138 | 3.5 | 1.516 | 38.5 | 2.362 | 60 | 3,150 | 14000 | 1,750 | 7800 | 1.103 | 0.500 | CJTZ05 | GAY25NPPB |
| PCJTZY30 | 0.118 | 3 | 1.614 | 41 | 3.150 | 80 | 4,400 | 19500 | 2,550 | 11300 | 1.698 | 0.770 | CJTZ06 | GAY30NPPB |
| PCJTZY35 | 0.158 | 4 | 1.831 | 46.5 | 3.543 | 90 | 5,750 | 25500 | 3,450 | 15300 | 2.337 | 1.060 | CJTZ07 | GAY35NPPB |
| PCJTZY40 | 0.158 | 4 | 2.087 | 53 | 3.937 | 100 | 7,300 | 32500 | 4,450 | 19800 | 3.219 | 1.460 | CJTZ08 | GAY40NPPB |
| PCJTZY45 | 0.158 | 4 | 2.146 | 54.5 | 4.134 | 105 | 7,300 | 32500 | 4,600 | 20400 | 3.528 | 1.600 | CJTZ09 | GAY45NPPB |
| PCJTZY50 | 0.158 | 4 | 2.362 | 60 | 4.134 | 105 | 7,850 | 35000 | 5,200 | 23200 | 4.035 | 1.830 | CJTZ10 | GAY50NPPB |

# Housing Units
## RCJTZ SERIES

- Metric series
- 2 bolt flange
- Housing pilot
- Standard seals
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

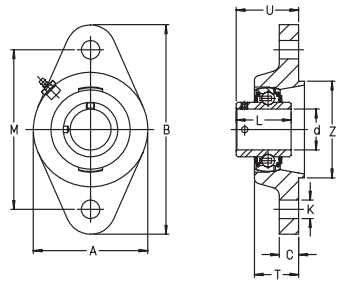
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | T inch | T mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJTZ20 | 0.787 | 20 | 2.382 | 60.5 | 4.429 | 112.5 | 0.394 | 10 | 0.453 | 11.5 | 1.721 | 43.7 | 3.543 | 90 | 1.102 | 28 |
| RCJTZ25 | 0.984 | 25 | 2.756 | 70 | 4.882 | 124 | 0.472 | 12 | 0.453 | 11.5 | 1.748 | 44.4 | 3.898 | 99 | 1.043 | 26.5 |
| RCJTZ30 | 1.181 | 30 | 3.150 | 80 | 5.591 | 142 | 0.472 | 12 | 0.453 | 11.5 | 1.906 | 48.4 | 4.587 | 116.5 | 1.024 | 26 |
| RCJTZ35 | 1.378 | 35 | 3.701 | 94 | 6.102 | 155 | 0.492 | 12.5 | 0.551 | 14.0 | 2.012 | 51.1 | 5.118 | 130 | 1.043 | 26.5 |
| RCJTZ40 | 1.575 | 40 | 4.134 | 105 | 6.772 | 172 | 0.512 | 13 | 0.551 | 14.0 | 2.217 | 56.3 | 5.650 | 143.5 | 1.201 | 30.5 |
| RCJTZ45 | 1.772 | 45 | 4.370 | 111 | 7.087 | 180 | 0.512 | 13 | 0.551 | 14.0 | 2.217 | 56.3 | 5.847 | 148.5 | 1.221 | 31 |
| RCJTZ50 | 1.969 | 50 | 4.567 | 116 | 7.480 | 190 | 0.512 | 13 | 0.551 | 14.0 | 2.469 | 62.7 | 6.181 | 157 | 1.378 | 35 |

**CONTINUED FROM ABOVE**

| PART NUMBER | $T_1$ inch | $T_1$ mm | U inch | U mm | Z inch | Z mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | WEIGHT lbs | WEIGHT kg | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJTZ20 | 0.138 | 3.5 | 1.780 | 45.2 | 2.165 | 55 | 2,900 | 12800 | 1,480 | 6600 | 1.169 | 0.530 | CJTZ04 | GE20KRRB |
| RCJTZ25 | 0.138 | 3.5 | 1.807 | 45.9 | 2.362 | 60 | 3,150 | 14000 | 1,750 | 7800 | 1.411 | 0.640 | CJTZ05 | GE25KRRB |
| RCJTZ30 | 0.118 | 3 | 1.854 | 47.1 | 3.150 | 80 | 4,400 | 19500 | 2,550 | 11300 | 1.985 | 0.900 | CJTZ06 | GE30KRRB |
| RCJTZ35 | 0.158 | 4 | 1.941 | 49.3 | 3.543 | 90 | 5,750 | 25500 | 3,450 | 15300 | 2.690 | 1.220 | CJTZ07 | GE35KRRB |
| RCJTZ40 | 0.158 | 4 | 2.161 | 54.9 | 3.937 | 100 | 7,300 | 32500 | 4,450 | 19800 | 3.726 | 1.690 | CJTZ08 | GE40KRRB |
| RCJTZ45 | 0.158 | 4 | 2.161 | 54.9 | 4.134 | 105 | 7,300 | 32500 | 4,600 | 20400 | 4.101 | 1.860 | CJTZ09 | GE45KRRB |
| RCJTZ50 | 0.158 | 4 | 2.445 | 62.1 | 4.134 | 105 | 7,850 | 35000 | 5,200 | 23200 | 4.873 | 2.210 | CJTZ10 | GE50KRRB |

# Housing Units
## RCJTZY SERIES

- Metric series
- 2 bolt flange
- Housing pilot
- Standard seals
- Set screw locking



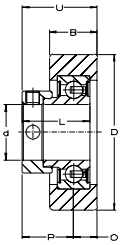

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | L inch | L mm | M inch | M mm | T inch | T mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJTZY20 | 0.787 | 20 | 2.402 | 61 | 4.409 | 112 | 0.394 | 10 | 0.453 | 11.5 | 1.221 | 31 | 3.543 | 90 | 1.248 | 31.7 |
| RCJTZY25 | 0.984 | 25 | 2.756 | 70 | 4.882 | 124 | 0.433 | 11 | 0.453 | 11.5 | 1.343 | 34.1 | 3.898 | 99 | 1.043 | 26.5 |
| RCJTZY30 | 1.181 | 30 | 3.150 | 80 | 5.591 | 142 | 0.472 | 12 | 0.453 | 11.5 | 1.500 | 38.1 | 4.587 | 116.5 | 1.024 | 26 |
| RCJTZY35 | 1.378 | 35 | 3.622 | 92 | 6.102 | 155 | 0.492 | 12.5 | 0.551 | 14.0 | 1.689 | 42.9 | 5.118 | 130 | 1.043 | 26.5 |
| RCJTZY40 | 1.575 | 40 | 4.134 | 105 | 6.772 | 172 | 0.512 | 13 | 0.551 | 14.0 | 1.937 | 49.2 | 5.650 | 143.5 | 1.201 | 30.5 |
| RCJTZY45 | 1.772 | 45 | 4.370 | 111 | 7.087 | 180 | 0.512 | 13 | 0.551 | 14.0 | 1.937 | 49.2 | 5.847 | 148.5 | 1.221 | 31 |
| RCJTZY50 | 1.969 | 50 | 4.567 | 116 | 7.480 | 190 | 0.512 | 13 | 0.709 | 18.0 | 2.032 | 51.6 | 6.181 | 157 | 1.378 | 35 |

**CONTINUED FROM ABOVE**

| PART NUMBER | $T_1$ inch | $T_1$ mm | U inch | U mm | Z inch | Z mm | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | WEIGHT lbs | WEIGHT kg | HOUSING | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCJTZY20 | 0.138 | 3.5 | 1.469 | 37.3 | 2.165 | 55 | 2,900 | 12800 | 1,480 | 6600 | 1.103 | 0.500 | CJTZ04 | GYE20KRRB |
| RCJTZY25 | 0.138 | 3.5 | 1.528 | 38.8 | 2.362 | 60 | 3,150 | 14000 | 1,750 | 7800 | 1.301 | 0.590 | CJTZ05 | GYE25KRRB |
| RCJTZY30 | 0.118 | 3 | 1.661 | 42.2 | 3.150 | 80 | 4,400 | 19500 | 2,550 | 11300 | 1.698 | 0.770 | CJTZ06 | GYE30KRRB |
| RCJTZY35 | 0.158 | 4 | 1.906 | 48.4 | 3.543 | 90 | 5,750 | 25500 | 3,450 | 15300 | 2.558 | 1.160 | CJTZ07 | GYE35KRRB |
| RCJTZY40 | 0.158 | 4 | 2.134 | 54.2 | 3.937 | 100 | 7,300 | 32500 | 4,450 | 19800 | 3.528 | 1.600 | CJTZ08 | GYE40KRRB |
| RCJTZY45 | 0.158 | 4 | 2.134 | 54.2 | 4.134 | 105 | 7,300 | 32500 | 4,600 | 20400 | 3.859 | 1.750 | CJTZ09 | GYE45KRRB |
| RCJTZY50 | 0.158 | 4 | 2.386 | 60.6 | 4.134 | 105 | 7,850 | 35000 | 5,200 | 23200 | 4.873 | 2.210 | CJTZ10 | GYE50KRRB |

# Radial Insert Ball Bearings With Rubber Interliner
## RCSMB SERIES




- Hardness of the interliner - 55° – 70° Shore A
- Economy P seals
- Cylindrical outside surface
- Eccentric locking collar

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d inch | SHAFT d mm | D inch | D mm | B inch | B mm | U inch | U mm |
|---|---|---|---|---|---|---|---|---|---|
| RCSMB15/65 | - | 0.591 | 15 | 2.559 | 65 | 1.000 | 25.4 | 1.370 | 34.8 |
| RCSMB17/65 | - | 0.669 | 17 | 2.559 | 65 | 1.000 | 25.4 | 1.370 | 34.8 |
| RCSMB20/65 | - | 0.787 | 20 | 2.559 | 65 | 1.000 | 25.4 | 1.425 | 36.2 |
| RCSMB25/65 | - | 0.984 | 25 | 2.559 | 65 | 1.000 | 25.4 | 1.425 | 36.2 |
| RCSMA30/65 | - | 1.181 | 30 | 2.559 | 65 | 1.000 | 25.4 | 1.394 | 35.4 |

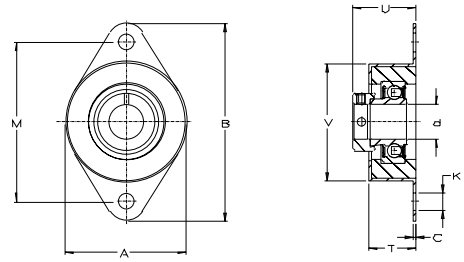
**CONTINUED FROM ABOVE**

| PART NUMBER | L inch | L mm | INSERT | RUBBER LINER | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | RUBBER LINER CAPACITY lbf | RUBBER LINER CAPACITY N | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCSMB15/65 | 1.126 | 28.6 | RAE 15 NPP | RCSM 40/65 | 2150 | 9600 | 1070 | 4750 | 200 | 900 | 0.40 | 0.18 |
| RCSMB17/65 | 1.126 | 28.6 | RAE 17 NPP | RCSM 40/65 | 2150 | 9600 | 1070 | 4750 | 200 | 900 | 0.40 | 0.18 |
| RCSMB20/65 | 1.220 | 31 | RAE 20 NPP | RCSM 47/65 | 2870 | 12800 | 1480 | 6600 | 270 | 1200 | 0.49 | 0.22 |
| RCSMB25/65 | 1.220 | 31 | RAE 25 NPP | RCSM 52/65 | 3150 | 14000 | 1750 | 7800 | 315 | 1400 | 0.53 | 0.24 |
| RCSMA30/65 | 1.043 | 26.5 | RALE 30 NPP | RCSM 55/65 | 2950 | 13200 | 1860 | 8300 | 315 | 1400 | 0.71 | 0.32 |

# Oval Flanged Housing Units With Rubber Interliner

## RCSMF SERIES

- 2 bolt mounting
- Metric series
- Sheet steel housing
- Standard R seals
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

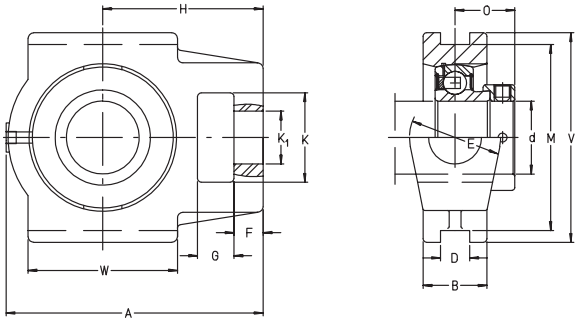
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | C inch | C mm | K inch | K mm | M inch | M mm | WGT. lbs | WGT. kg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCSMF 12 | 0.472 | 12 | 2.756 | 70 | 4.488 | 114 | 0.059 | 1.5 | 0.413 | 10.5 | 3.622 | 92 | 0.60 | 0.27 |
| RCSMF 15 | 0.591 | 15 | 2.756 | 70 | 4.488 | 114 | 0.059 | 1.5 | 0.413 | 10.5 | 3.622 | 92 | 0.60 | 0.27 |
| RCSMF 17 | 0.669 | 17 | 2.756 | 70 | 4.488 | 114 | 0.059 | 1.5 | 0.413 | 10.5 | 3.622 | 92 | 0.60 | 0.27 |
| RCSMF 20 | 0.787 | 20 | 2.756 | 70 | 4.488 | 114 | 0.059 | 1.5 | 0.413 | 10.5 | 3.622 | 92 | 0.71 | 0.32 |
| RCSMF 25 | 0.984 | 25 | 2.756 | 70 | 4.488 | 114 | 0.059 | 1.5 | 0.413 | 10.5 | 3.622 | 92 | 0.73 | 0.33 |

**CONTINUED FROM ABOVE**

| PART NUMBER | T inch | T mm | U inch | U mm | V inch | V mm | INSERT | RUBBER LINER | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | RUBBER INTERLINER Cg lbf | RUBBER INTERLINER Cg N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RCSMF 12 | 1.063 | 27 | 1.370 | 34.8 | 2.677 | 68 | RAE 12 NPP | 65 RCSMF | 2150 | 9600 | 1070 | 4750 | 200 | 900 |
| RCSMF 15 | 1.063 | 27 | 1.370 | 34.8 | 2.677 | 68 | RAE 15 NPP | 65 RCSMF | 2150 | 9600 | 1070 | 4750 | 200 | 900 |
| RCSMF 17 | 1.063 | 27 | 1.370 | 34.8 | 2.677 | 68 | RAE 17 NPP | 65 RCSMF | 2150 | 9600 | 1070 | 4750 | 200 | 900 |
| RCSMF 20 | 1.063 | 27 | 1.425 | 36.2 | 2.677 | 68 | RAE 20 NPP | 65 RCSMF | 2900 | 12800 | 1480 | 6600 | 250 | 1100 |
| RCSMF 25 | 1.063 | 27 | 1.425 | 36.2 | 2.677 | 68 | RAE 25 NPP | 65 RCSMF | 3150 | 14000 | 1760 | 7800 | 320 | 1400 |

# Take Up Units
## PTUE SERIES

- Metric series
- ISO slot width
- Economy seals
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

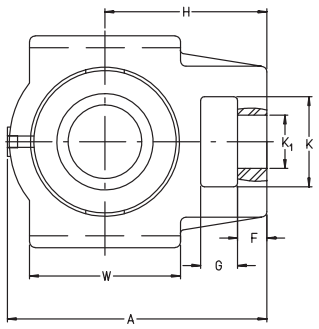
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | D inch | D mm | E inch | E mm | F inch | F mm | G inch | G mm | H inch | H mm | K inch | K mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PTUE20 | 0.7874 | 20 | 3.7205 | 94.5 | 0.9843 | 25 | 0.4724 | 12 | 1.4567 | 37 | 0.3543 | 9 | 0.7087 | 18 | 2.3622 | 60 | 0.7480 | 19 |
| PTUE25 | 0.9843 | 25 | 3.8780 | 98.5 | 0.9843 | 25 | 0.4724 | 12 | 1.4567 | 37 | 0.3937 | 10 | 0.7087 | 18 | 2.4409 | 62 | 0.7480 | 19 |
| PTUE30 | 1.1811 | 30 | 4.5079 | 114.5 | 0.9843 | 25 | 0.4724 | 12 | 1.4567 | 37 | 0.3937 | 10 | 0.7087 | 18 | 2.7559 | 70 | 0.8661 | 22 |
| PTUE35 | 1.3780 | 35 | 5.1772 | 131.5 | 1.1811 | 30 | 0.4724 | 12 | 1.5748 | 40 | 0.5118 | 13 | 0.7087 | 18 | 3.1496 | 80 | 0.8661 | 22 |
| PTUE40 | 1.5748 | 40 | 5.5512 | 141 | 1.3780 | 35 | 0.6299 | 16 | 1.9685 | 50 | 0.6299 | 16 | 0.7874 | 20 | 3.4646 | 88 | 1.1417 | 29 |
| PTUE45 | 1.7717 | 45 | 5.5512 | 141 | 1.3780 | 35 | 0.6299 | 16 | 1.9685 | 50 | 0.6299 | 16 | 0.7874 | 20 | 3.4646 | 88 | 1.1417 | 29 |
| PTUE50 | 1.9685 | 50 | 5.8268 | 148 | 1.3780 | 35 | 0.6299 | 16 | 1.9685 | 50 | 0.6299 | 16 | 0.7874 | 20 | 3.5433 | 90 | 1.1417 | 29 |

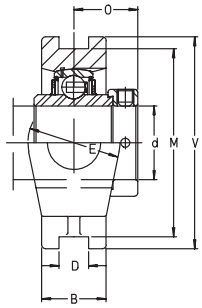
**CONTINUED FROM ABOVE**

| PART NUMBER | $K_1$ inch | $K_1$ mm | M inch | M mm | O inch | O mm | V inch | V mm | W inch | W mm | WGT. lbs | WGT. kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | HSG. | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PTUE20 | 1.2598 | 32 | 2.9921 | 76 | 0.9252 | 23.5 | 3.5433 | 90 | 1.9685 | 50 | 1.83 | 0.83 | 2,900 | 12800 | 1,480 | 6600 | TUE04 | GRAE20NPPB |
| PTUE25 | 1.2598 | 32 | 2.9921 | 76 | 0.9252 | 23.5 | 3.5433 | 90 | 1.9685 | 50 | 1.874 | 0.85 | 3,150 | 14000 | 1,750 | 7800 | TUE05 | GRAE25NPPB |
| PTUE30 | 1.4370 | 36.5 | 3.5039 | 89 | 1.0512 | 26.7 | 4.0157 | 102 | 2.2441 | 57 | 2.58 | 1.17 | 4,400 | 19500 | 2,550 | 11300 | TUE06 | GRAE30NPPB |
| PTUE35 | 1.4370 | 36.5 | 3.5039 | 89 | 1.1575 | 29.4 | 4.0157 | 102 | 2.4803 | 63 | 3.815 | 1.73 | 5,750 | 25500 | 3,450 | 15300 | TUE07 | GRAE35NPPB |
| PTUE40 | 1.9291 | 49 | 4.0157 | 102 | 1.2874 | 32.7 | 4.5276 | 115 | 3.2283 | 82 | 5.292 | 2.4 | 7,300 | 32500 | 4,450 | 19800 | TUE08 | GRAE40NPPB |
| PTUE45 | 1.9291 | 49 | 4.0157 | 102 | 1.2874 | 32.7 | 4.5276 | 115 | 3.2283 | 82 | 5.49 | 2.49 | 7,300 | 32500 | 4,600 | 20400 | TUE09 | GRAE45NPPB |
| PTUE50 | 1.9291 | 49 | 4.0157 | 102 | 1.2874 | 32.7 | 4.5276 | 115 | 3.3465 | 85 | 5.336 | 2.42 | 7,850 | 35000 | 5,200 | 23200 | TUE10 | GRAE50NPPB |

# Take Up Housing Units
## RTUE SERIES

- Metric series
- ISO slot width
- Standard R seals
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

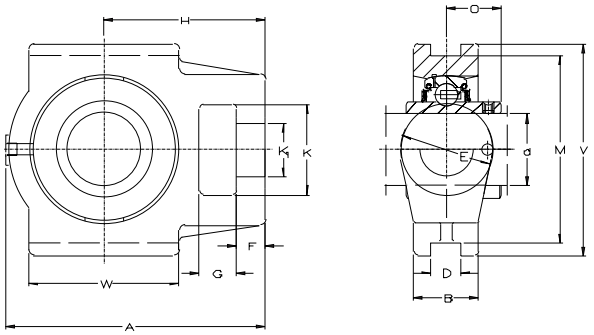
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | D inch | D mm | E inch | E mm | F inch | F mm | G inch | G mm | H inch | H mm | K inch | K mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTUE20 | 0.787 | 20 | 3.721 | 94.5 | 0.984 | 25 | 0.472 | 12 | 1.457 | 37 | 0.354 | 9 | 0.709 | 18 | 2.362 | 60 | 0.748 | 19 |
| RTUE25 | 0.984 | 25 | 3.878 | 98.5 | 0.984 | 25 | 0.472 | 12 | 1.457 | 37 | 0.394 | 10 | 0.709 | 18 | 2.441 | 62 | 0.748 | 19 |
| RTUE30 | 1.181 | 30 | 4.508 | 114.5 | 0.984 | 25 | 0.472 | 12 | 1.457 | 37 | 0.394 | 10 | 0.709 | 18 | 2.756 | 70 | 0.866 | 22 |
| RTUE35 | 1.378 | 35 | 5.177 | 131.5 | 1.181 | 30 | 0.472 | 12 | 1.575 | 40 | 0.512 | 13 | 0.709 | 18 | 3.150 | 80 | 0.866 | 22 |
| RTUE40 | 1.575 | 40 | 5.551 | 141 | 1.378 | 35 | 0.630 | 16 | 1.969 | 50 | 0.630 | 16 | 0.787 | 20 | 3.465 | 88 | 1.142 | 29 |
| RTUE45 | 1.772 | 45 | 5.551 | 141 | 1.378 | 35 | 0.630 | 16 | 1.969 | 50 | 0.630 | 16 | 0.787 | 20 | 3.465 | 88 | 1.142 | 29 |
| RTUE50 | 1.969 | 50 | 5.827 | 148 | 1.378 | 35 | 0.630 | 16 | 1.969 | 50 | 0.630 | 16 | 0.787 | 20 | 3.543 | 90 | 1.142 | 29 |
| RTUE55 | 2.165 | 55 | 6.654 | 169 | 1.654 | 42 | 0.866 | 22 | 2.362 | 60 | 0.669 | 17 | 1.024 | 26 | 4.094 | 104 | 1.378 | 35 |
| RTUE65 | 2.559 | 65 | 8.425 | 214 | 1.969 | 50 | 0.984 | 25 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.315 | 135 | 1.614 | 41 |
| RTUE70 | 2.756 | 70 | 8.425 | 214 | 1.969 | 50 | 0.984 | 25 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.315 | 135 | 1.614 | 41 |
| RTUE75 | 2.953 | 75 | 8.425 | 214 | 1.969 | 50 | 0.984 | 25 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.315 | 135 | 1.614 | 41 |
| RTUE80 | 3.150 | 80 | 9.055 | 230 | 1.969 | 50 | 1.102 | 28 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.512 | 140 | 1.614 | 41 |

**CONTINUED FROM ABOVE**

| PART NUMBER | $K_1$ inch | $K_1$ mm | M inch | M mm | O inch | O mm | V inch | V mm | W inch | W mm | WGT. lbs | WGT. kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | HSG. | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTUE20 | 1.260 | 32 | 2.992 | 76 | 1.047 | 26.6 | 3.543 | 90 | 1.969 | 50 | 1.918 | 0.870 | 2900 | 12800 | 1480 | 6600 | TUE 04 | GE20KRRB |
| RTUE25 | 1.260 | 32 | 2.992 | 76 | 1.059 | 26.9 | 3.543 | 90 | 1.969 | 50 | 2.007 | 0.910 | 3150 | 14000 | 1750 | 7800 | TUE 05 | GE25KRRB |
| RTUE30 | 1.437 | 36.5 | 3.504 | 89 | 1.185 | 30.1 | 4.016 | 102 | 2.244 | 57 | 2.734 | 1.240 | 4400 | 19500 | 2550 | 11300 | TUE 06 | GE30KRRB |
| RTUE35 | 1.437 | 36.5 | 3.504 | 89 | 1.272 | 32.3 | 4.016 | 102 | 2.480 | 63 | 3.969 | 1.800 | 5750 | 25500 | 3450 | 15300 | TUE 07 | GE35KRRB |
| RTUE40 | 1.929 | 49 | 4.016 | 102 | 1.374 | 34.9 | 4.528 | 115 | 3.228 | 82 | 5.557 | 2.520 | 7300 | 32500 | 4450 | 19800 | TUE 08 | GE40KRRB |
| RTUE45 | 1.929 | 49 | 4.016 | 102 | 1.374 | 34.9 | 4.528 | 115 | 3.228 | 82 | 5.750 | 2.610 | 7300 | 32500 | 4600 | 20400 | TUE 09 | GE45KRRB |
| RTUE50 | 1.929 | 49 | 4.016 | 102 | 1.500 | 38.1 | 4.528 | 115 | 3.347 | 85 | 5.843 | 2.650 | 7850 | 35000 | 5200 | 23200 | TUE 10 | GE50KRRB |
| RTUE55 | 2.500 | 63.5 | 5.118 | 130 | 1.717 | 43.6 | 5.709 | 145 | 3.740 | 95 | 10.143 | 4.600 | 9800 | 43500 | 6500 | 29000 | TUE 11 | GE55KRRB |
| RTUE65 | 2.756 | 70 | 5.945 | 151 | 1.756 | 44.6 | 6.535 | 166 | 4.724 | 120 | 16.449 | 7.460 | 13950 | 62000 | 9900 | 44000 | TUE 13/14 | GE65KRRB |
| RTUE70 | 2.756 | 70 | 5.945 | 151 | 1.756 | 44.6 | 6.535 | 166 | 4.724 | 120 | 15.876 | 7.200 | 13950 | 62000 | 9900 | 44000 | TUE 13/14 | GE70KRRB |
| RTUE75 | 2.756 | 70 | 5.945 | 151 | 1.795 | 45.6 | 6.535 | 166 | 4.724 | 120 | 15.545 | 7.050 | 13950 | 62000 | 10000 | 44500 | TUE 15 | GE75KRRB |
| RTUE80 | 2.756 | 70 | 6.496 | 165 | 1.874 | 47.6 | 7.244 | 184 | 4.724 | 120 | 18.522 | 8.400 | 16200 | 72000 | 16200 | 72000 | TUE 16 | GE80KRRB |

# Take-up Housing Units
## RTUEY SERIES

- Metric series
- Standard R seals
- ISO slot width
- Set screw locking




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

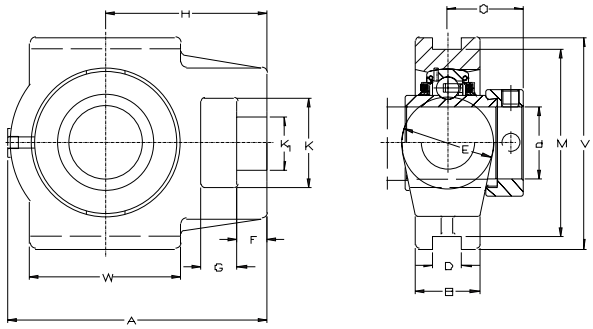
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | D inch | D mm | E inch | E mm | F inch | F mm | G inch | G mm | H inch | H mm | K inch | K mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTUEY 20 | 0.787 | 20 | 3.720 | 94.5 | 0.984 | 25 | 0.472 | 12 | 1.457 | 37 | 0.354 | 9 | 0.709 | 18 | 2.362 | 60 | 1.260 | 32 |
| RTUEY 25 | 0.984 | 25 | 3.878 | 98.5 | 0.984 | 25 | 0.472 | 12 | 1.457 | 37 | 0.394 | 10 | 0.709 | 18 | 2.441 | 62 | 1.260 | 32 |
| RTUEY 30 | 1.181 | 30 | 4.508 | 114.5 | 0.984 | 25 | 0.472 | 12 | 1.457 | 37 | 0.394 | 10 | 0.709 | 18 | 2.756 | 70 | 1.437 | 36.50 |
| RTUEY 35 | 1.378 | 35 | 5.177 | 131.5 | 1.181 | 30 | 0.472 | 12 | 1.575 | 40 | 0.512 | 13 | 0.709 | 18 | 3.150 | 80 | 1.437 | 36.50 |
| RTUEY 40 | 1.575 | 40 | 5.551 | 141 | 1.378 | 35 | 0.630 | 16 | 1.969 | 50 | 0.630 | 16 | 0.787 | 20 | 3.465 | 88 | 1.929 | 49 |
| RTUEY 50 | 1.969 | 50 | 5.827 | 148 | 1.378 | 35 | 0.630 | 16 | 1.969 | 50 | 0.630 | 16 | 0.787 | 20 | 3.543 | 90 | 1.929 | 49 |
| RTUEY 60 | 2.362 | 60 | 7.323 | 186 | 1.732 | 44 | 0.866 | 22 | 2.362 | 60 | 0.748 | 19 | 1.260 | 32 | 4.646 | 118 | 2.500 | 63.50 |
| RTUEY 65 | 2.559 | 65 | 8.425 | 214 | 1.969 | 50 | 0.984 | 25 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.315 | 135 | 2.756 | 70 |
| RTUEY 70 | 2.756 | 70 | 8.425 | 214 | 1.969 | 50 | 0.984 | 25 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.315 | 135 | 2.756 | 70 |
| RTUEY 75 | 2.953 | 75 | 8.425 | 214 | 1.969 | 50 | 0.984 | 25 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.315 | 135 | 2.756 | 70 |
| RTUEY 80 | 3.150 | 80 | 9.055 | 230 | 1.969 | 50 | 1.102 | 28 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.512 | 140 | 2.756 | 70 |

**CONTINUED FROM ABOVE**

| PART NUMBER | $K_1$ inch | $K_1$ mm | M inch | M mm | O inch | O mm | V inch | V mm | W inch | W mm | WGT. lbs | WGT. kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | HSG. | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RTUEY 20 | 0.748 | 19 | 2.992 | 76 | 0.720 | 18.00 | 3.543 | 90 | 1.969 | 50 | 1.85 | 0.84 | 2880 | 12800 | 1485 | 6600 | TUE 04 | GYE 20 KRRB |
| RTUEY 25 | 0.748 | 19 | 2.992 | 76 | 0.780 | 19.00 | 3.543 | 90 | 1.969 | 50 | 1.90 | 0.86 | 3150 | 14000 | 1755 | 7800 | TUE 05 | GYE 25 KRRB |
| RTUEY 30 | 0.866 | 22 | 3.504 | 89 | 0.874 | 22.00 | 4.016 | 102 | 2.244 | 57 | 2.62 | 1.19 | 4400 | 19500 | 2540 | 11300 | TUE 06 | GYE 30 KRRB |
| RTUEY 35 | 0.866 | 22 | 3.504 | 89 | 1.000 | 25.00 | 4.016 | 102 | 2.480 | 63 | 3.84 | 1.74 | 5700 | 25500 | 3440 | 15300 | TUE 07 | GYE 35 KRRB |
| RTUEY 40 | 1.142 | 29 | 4.016 | 102 | 1.189 | 30.00 | 4.528 | 115 | 3.228 | 82 | 5.36 | 2.43 | 7300 | 32500 | 4455 | 19800 | TUE 08 | GYE 40 KRRB |
| RTUEY 50 | 1.142 | 29 | 4.016 | 102 | 1.283 | 32.00 | 4.528 | 115 | 3.346 | 85 | 5.40 | 2.45 | 7875 | 35000 | 5220 | 23200 | TUE 10 | GYE 50 KRRB |
| RTUEY 60 | 1.378 | 35 | 5.118 | 130 | 1.563 | 39.00 | 5.748 | 146 | 3.937 | 100 | 9.31 | 4.22 | 11700 | 52000 | 8100 | 36000 | TUE 12 | GYE 60 KRRB |
| RTUEY 65 | 1.614 | 41 | 5.945 | 151 | 1.748 | 44.40 | 6.535 | 166 | 4.724 | 120 | 15.44 | 7.00 | 13950 | 62000 | 9900 | 44000 | TUE 13/14 | GYE 65 KRRB |
| RTUEY 70 | 1.614 | 41 | 5.945 | 151 | 1.748 | 44.40 | 6.535 | 166 | 4.724 | 120 | 14.77 | 6.70 | 13950 | 62000 | 9900 | 44000 | TUE 13/14 | GYE 70 KRRB |
| RTUEY 75 | 1.614 | 41 | 5.945 | 151 | 1.752 | 44.50 | 6.535 | 166 | 4.724 | 120 | 14.53 | 6.59 | 13950 | 62000 | 10000 | 44500 | TUE 15 | GYE 75 KRRB |
| RTUEY 80 | 1.614 | 41 | 6.496 | 165 | 1.941 | 49.30 | 7.244 | 184 | 4.724 | 120 | 18.48 | 8.38 | 16200 | 72000 | 12150 | 54000 | TUE 16 | GYE 80 KRRB |

# Take Up Units
## TTUE SERIES

- Metric series
- ISO slot width
- Tri-ply P3 seals
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

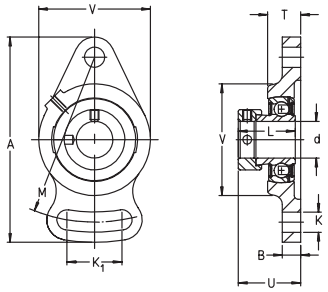
| PART NUMBER | SHAFT d inch | SHAFT d mm | A inch | A mm | B inch | B mm | D inch | D mm | E inch | E mm | F inch | F mm | G inch | G mm | H inch | H mm | K inch | K mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TTUE20 | 0.787 | 20 | 3.721 | 94.5 | 0.984 | 25 | 0.472 | 12 | 1.457 | 37 | 0.354 | 9 | 0.709 | 18 | 2.362 | 60 | 0.748 | 19 |
| TTUE25 | 0.984 | 25 | 3.878 | 98.5 | 0.984 | 25 | 0.472 | 12 | 1.457 | 37 | 0.394 | 10 | 0.709 | 18 | 2.441 | 62 | 0.748 | 19 |
| TTUE30 | 1.181 | 30 | 4.508 | 114.5 | 0.984 | 25 | 0.472 | 12 | 1.457 | 37 | 0.394 | 10 | 0.709 | 18 | 2.756 | 70 | 0.866 | 22 |
| TTUE35 | 1.378 | 35 | 5.177 | 131.5 | 1.181 | 30 | 0.472 | 12 | 1.575 | 40 | 0.512 | 13 | 0.709 | 18 | 3.150 | 80 | 0.866 | 22 |
| TTUE40 | 1.575 | 40 | 5.551 | 141 | 1.378 | 35 | 0.630 | 16 | 1.969 | 50 | 0.630 | 16 | 0.787 | 20 | 3.465 | 88 | 1.142 | 29 |
| TTUE45 | 1.772 | 45 | 5.551 | 141 | 1.378 | 35 | 0.630 | 16 | 1.969 | 50 | 0.630 | 16 | 0.787 | 20 | 3.465 | 88 | 1.142 | 29 |
| TTUE50 | 1.969 | 50 | 5.827 | 148 | 1.378 | 35 | 0.630 | 16 | 1.969 | 50 | 0.630 | 16 | 0.787 | 20 | 3.543 | 90 | 1.142 | 29 |
| TTUE55 | 2.165 | 55 | 6.654 | 169 | 1.654 | 42 | 0.866 | 22 | 2.362 | 60 | 0.669 | 17 | 1.024 | 26 | 4.094 | 104 | 1.378 | 35 |
| TTUE60 | 2.362 | 60 | 7.323 | 186 | 1.732 | 44 | 0.866 | 22 | 2.362 | 60 | 0.748 | 19 | 1.260 | 32 | 4.646 | 118 | 1.378 | 35 |
| TTUE65 | 2.559 | 65 | 8.425 | 214 | 1.969 | 50 | 0.984 | 25 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.315 | 135 | 1.614 | 41 |
| TTUE70 | 2.756 | 70 | 8.425 | 214 | 1.969 | 50 | 0.984 | 25 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.315 | 135 | 1.614 | 41 |
| TTUE75 | 2.953 | 75 | 8.425 | 214 | 1.969 | 50 | 0.984 | 25 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.315 | 135 | 1.614 | 41 |
| TTUE80 | 3.150 | 80 | 9.055 | 230 | 1.969 | 50 | 1.102 | 28 | 2.756 | 70 | 0.787 | 20 | 1.378 | 35 | 5.512 | 140 | 1.614 | 41 |

**CONTINUED FROM ABOVE**

| PART NUMBER | $K_1$ inch | $K_1$ mm | M inch | M mm | O inch | O mm | V inch | V mm | W inch | W mm | WGT. lbs | WGT. kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | HSG. | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| TTUE20 | 1.260 | 32 | 2.992 | 76 | 1.047 | 26.6 | 3.543 | 90 | 1.969 | 50 | 1.918 | 0.87 | 2900 | 12800 | 1480 | 6600 | TUE 04 | GE20KPPB-3 |
| TTUE25 | 1.260 | 32 | 2.992 | 76 | 1.059 | 26.9 | 3.543 | 90 | 1.969 | 50 | 2.007 | 0.91 | 3150 | 14000 | 1750 | 7800 | TUE 05 | GE25KPPB-3 |
| TTUE30 | 1.437 | 36.5 | 3.504 | 89 | 1.185 | 30.1 | 4.016 | 102 | 2.244 | 57 | 2.734 | 1.24 | 4400 | 19500 | 2550 | 11300 | TUE 06 | GE30KPPB-3 |
| TTUE35 | 1.437 | 36.5 | 3.504 | 89 | 1.272 | 32.3 | 4.016 | 102 | 2.480 | 63 | 3.969 | 1.8 | 5750 | 25500 | 3450 | 15300 | TUE 07 | GE35KPPB-3 |
| TTUE40 | 1.929 | 49 | 4.016 | 102 | 1.374 | 34.9 | 4.528 | 115 | 3.228 | 82 | 5.557 | 2.52 | 7300 | 32500 | 4450 | 19800 | TUE 08 | GE40KPPB-3 |
| TTUE45 | 1.929 | 49 | 4.016 | 102 | 1.374 | 34.9 | 4.528 | 115 | 3.228 | 82 | 5.750 | 2.61 | 7300 | 32500 | 4600 | 20400 | TUE 09 | GE45KPPB-3 |
| TTUE50 | 1.929 | 49 | 4.016 | 102 | 1.500 | 38.1 | 4.528 | 115 | 3.347 | 85 | 5.843 | 2.65 | 7850 | 35000 | 5200 | 23200 | TUE 10 | GE50KPPB-3 |
| TTUE55 | 2.500 | 63.5 | 5.118 | 130 | 1.654 | 43.6 | 5.709 | 145 | 3.740 | 95 | 10.143 | 4.6 | 9800 | 43500 | 6500 | 29000 | TUE 11 | GE55KPPB-3 |
| TTUE60 | 2.500 | 63.5 | 5.118 | 130 | 1.732 | 46.8 | 5.748 | 146 | 3.937 | 100 | 10.937 | 4.96 | 11700 | 52000 | 8000 | 36000 | TUE 12 | GE60KPPB-3 |
| TTUE65 | 2.756 | 70 | 5.945 | 151 | 1.969 | 44.6 | 6.535 | 166 | 4.724 | 120 | 16.449 | 7.46 | 13950 | 62000 | 9900 | 44000 | TUE 13/14 | GE65KPPB-3 |
| TTUE70 | 2.756 | 70 | 5.945 | 151 | 1.969 | 44.6 | 6.535 | 166 | 4.724 | 120 | 15.876 | 7.2 | 13950 | 62000 | 9900 | 44000 | TUE 13/14 | GE70KPPB-3 |
| TTUE75 | 2.756 | 70 | 5.945 | 151 | 1.969 | 45.6 | 6.535 | 166 | 4.724 | 120 | 15.545 | 7.05 | 13950 | 62000 | 10000 | 44500 | TUE 15 | GE75KPPB-3 |
| TTUE80 | 2.756 | 70 | 6.496 | 165 | 1.969 | 47.6 | 7.244 | 184 | 4.724 | 120 | 18.522 | 8.4 | 16200 | 72000 | 16200 | 72000 | TUE 16 | GE80KPPB-3 |

# Housing Units
## PSFT SERIES

- Metric series
- Pivoting 2 bolt flange take up unit
- Economy seals
- Eccentric locking collar




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

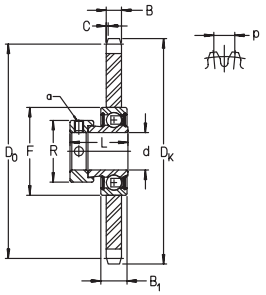
| PART NUMBER | SHAFT d inch | SHAFT d mm | a inch | a mm | b inch | b mm | K inch | K mm | k1 inch | k1 mm | L inch | L mm | M inch | M mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PSFT 20 | 0.787 | 20 | 4.409 | 112 | 0.394 | 10 | 0.453 | 11.5 | 1.181 | 30 | 1.221 | 31 | 3.543 | 90 |
| PSFT 25 | 0.984 | 25 | 4.882 | 124 | 0.433 | 11 | 0.453 | 11.5 | 1.476 | 37.5 | 1.221 | 31 | 3.898 | 99 |
| PSFT30 | 1.181 | 30 | 5.591 | 142 | 0.472 | 12 | 0.453 | 11.5 | 1.575 | 40 | 1.406 | 35.7 | 4.606 | 117 |
| PSFT35 | 1.378 | 35 | 6.102 | 155 | 0.492 | 12.5 | 0.551 | 14 | 1.772 | 45 | 1.532 | 38.9 | 5.039 | 128 |

**CONTINUED FROM ABOVE**

| PART NUMBER | T inch | T mm | U inch | U mm | V inch | V mm | WGT lbs | WGT kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | HSG. | INSERT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PSFT 20 | 0.709 | 18 | 1.339 | 34 | 2.402 | 61 | 1.985 | 0.9 | 2,900 | 12800 | 1,480 | 6600 | SFT04 | GRAE20NPPB |
| PSFT 25 | 0.787 | 20 | 1.417 | 36 | 2.756 | 70 | 1.235 | 0.56 | 3,150 | 14000 | 1,750 | 7800 | SFT05 | GRAE25NPPB |
| PSFT30 | 0.866 | 22 | 1.563 | 39.7 | 3.150 | 80 | 1.698 | 0.77 | 4,400 | 19500 | 2,550 | 11300 | SFT06 | GRAE30NPPB |
| PSFT35 | 0.984 | 25 | 1.752 | 44.5 | 3.543 | 90 | 2.426 | 1.1 | 5,750 | 25500 | 3,450 | 15300 | SFT07 | GRAE35NPPB |

# Sprockets
## KSR..BO SERIES

- Eccentric collar shaft locking
- Available sprockets are steel, powdered iron or plastic

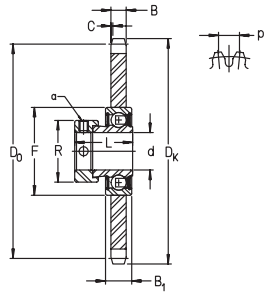



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | PITCH p inch | PITCH p inch | PITCH p mm | TEETH z qty | B inch | B mm | $D_0$ inch | $D_0$ mm | $D_k$ inch | $D_k$ mm | ANSI CHAIN REF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KSR15 BO 06 10 20 08 | 0.5906 | 15 | 3/8” | 0.375 | 9.525 | 20 | 0.2047 | 5.2 | 2.3976 | 60.9 | 2.5591 | 65 | |
| KSR15 BO 08 10 16 08 | 0.5906 | 15 | 1/2” | 0.5 | 12.7 | 16 | 0.2756 | 7 | 2.563 | 65.1 | 2.7756 | 70.5 | 40 |
| KSR15 BO 10 10 14 08 | 0.5906 | 15 | 5/8” | 0.625 | 15.875 | 14 | 0.3425 | 8.7 | 2.8071 | 71.3 | 3.0709 | 78 | 40 |
| KSR15 BO 12 10 13 08 | 0.5906 | 15 | 3/4” | 0.75 | 19.05 | 13 | 0.4134 | 10.5 | 3.1339 | 79.6 | 3.4252 | 87 | 40 |
| KSR20 BO 08 10 18 08 | 0.7874 | 20 | 1/2” | 0.5 | 12.7 | 18 | 0.2756 | 7 | 2.878 | 73.1 | 3.0945 | 78.6 | 40 |
| KSR20 BO 08 10 18 15 | 0.7874 | 20 | 1/2” | 0.5 | 12.7 | 18 | 0.2756 | 7 | 2.878 | 73.1 | 3.0945 | 78.6 | 50 |
| KSR20 BO 10 10 17 08 | 0.7874 | 20 | 5/8” | 0.625 | 15.875 | 17 | 0.3425 | 8.7 | 3.3976 | 86.3 | 3.6654 | 93.1 | 50 |
| KSR20 BO 10 10 17 15 | 0.7874 | 20 | 5/8” | 0.625 | 15.875 | 17 | 0.3425 | 8.7 | 3.3976 | 86.3 | 3.6654 | 93.1 | 50 |
| KSR20 BO 12 10 15 16 | 0.7874 | 20 | 3/4” | 0.75 | 19.05 | 15 | 0.4134 | 10.5 | 3.6063 | 91.6 | 3.9055 | 99.2 | 60 |
| KSR20 BO 16 10 10 15 | 0.7874 | 20 | 1” | 1 | 25.4 | 10 | 0.6024 | 15.3 | 3.2402 | 82.3 | 3.5197 | 89.4 | 60 |
| KSR20 BO 20 10 10 15 | 0.7874 | 20 | 1 1/4” | 1.25 | 31.75 | 10 | 0.7087 | 18 | 4.0512 | 102.9 | 4.3937 | 111.6 | 80 |
| KSR25 BO 08 10 19 08 | 0.9843 | 25 | 1/2” | 0.5 | 12.7 | 19 | 0.2756 | 7 | 3.0354 | 77.1 | 3.248 | 82.5 | 80 |
| KSR25 BO 16 10 17 15 | 0.9843 | 25 | 1” | 1 | 25.4 | 17 | 0.6024 | 15.3 | 5.4409 | 138.2 | 5.878 | 149.3 | 80 |
| KSR30 BO 16 10 15 15 | 1.1811 | 30 | 1” | 1 | 25.4 | 15 | 0.6024 | 15.3 | 4.811 | 122.2 | 5.1575 | 131 | 100 |
| KSR30 BO 24 10 15 15 | 1.1811 | 30 | 1 1/2” | 1.5 | 38.1 | 15 | 0.8976 | 22.8 | 7.2126 | 183.2 | 7.8622 | 199.7 | 120 |

# Sprockets
## KSR..BO SERIES

- Eccentric collar shaft locking
- Available sprockets are steel, powdered iron or plastic

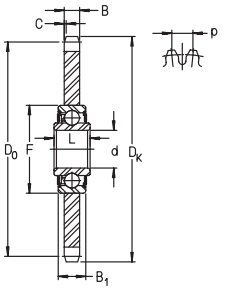



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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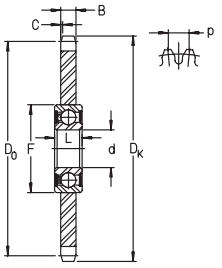
| $C_{min}$ inch | $C_{min}$ mm | F inch | F mm | L inch | L mm | $B_1$ inch | $B_1$ mm | $R_{max}$ inch | $R_{max}$ mm | a inch | a mm | WGT. lbs | WGT. kg | DIN 8187 CHAIN | DIN 8188 CHAIN | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.0315 | 0.8 | 1.5748 | 40 | 1.126 | 28.6 | 0.4724 | 12 | 1.1024 | 28 | 0.1181 | 3 | 0.397 | 0.18 | * | | KSR15 BO 06 10 20 08 |
| 0.0433 | 1.1 | 1.5748 | 40 | 1.126 | 28.6 | 0.4724 | 12 | 1.1024 | 28 | 0.1181 | 3 | 0.463 | 0.21 | * | | KSR15 BO 08 10 16 08 |
| 0.0512 | 1.3 | 1.5748 | 40 | 1.1142 | 28.3 | 0.4724 | 12 | 1.1024 | 28 | 0.1181 | 3 | 0.573 | 0.26 | * | * | KSR15 BO 10 10 14 08 |
| 0.0591 | 1.5 | 1.5748 | 40 | 1.126 | 28.6 | 0.4724 | 12 | 1.1024 | 28 | 0.1181 | 3 | 0.882 | 0.4 | * | * | KSR15 BO 12 10 13 08 |
| 0.0433 | 1.1 | 1.8504 | 47 | 1.2205 | 31 | 0.5512 | 14 | 1.2992 | 33 | 0.1181 | 3 | 0.706 | 0.32 | * | * | KSR20 BO 08 10 18 08 |
| 0.0433 | 1.1 | 1.8504 | 47 | 1.2205 | 31 | 0.5512 | 14 | 1.2992 | 33 | 0.1181 | 3 | 0.706 | 0.32 | * | * | KSR20 BO 08 10 18 15 |
| 0.0512 | 1.3 | 1.8504 | 47 | 1.2205 | 31 | 0.5512 | 14 | 1.2992 | 33 | 0.1181 | 3 | 0.904 | 0.41 | * | * | KSR20 BO 10 10 17 08 |
| 0.0512 | 1.3 | 1.8504 | 47 | 1.2205 | 31 | 0.5512 | 14 | 1.2992 | 33 | 0.1181 | 3 | 0.904 | 0.41 | * | * | KSR20 BO 10 10 17 15 |
| 0.0591 | 1.5 | 1.8504 | 47 | 1.2205 | 31 | 0.5512 | 14 | 1.2992 | 33 | 0.1181 | 3 | 1.036 | 0.47 | * | * | KSR20 BO 12 10 15 16 |
| 0.0787 | 2 | 1.8504 | 47 | 1.2205 | 31 | 0.5512 | 14 | 1.2992 | 33 | 0.1181 | 3 | 1.103 | 0.5 | * | | KSR20 BO 16 10 10 15 |
| 0.0984 | 2.5 | 1.8504 | 47 | 1.2205 | 31 | 0.5512 | 14 | 1.2992 | 33 | 0.1181 | 3 | 2.359 | 1.07 | * | * | KSR20 BO 20 10 10 15 |
| 0.0433 | 1.1 | 2.0472 | 52 | 1.2205 | 31 | 0.5906 | 15 | 1.4764 | 37.5 | 0.1181 | 3 | 0.639 | 0.29 | * | * | KSR25 BO 08 10 19 08 |
| 0.0787 | 2 | 2.0472 | 52 | 1.2205 | 31 | 0.5906 | 15 | 1.4764 | 37.5 | 0.1181 | 3 | 3.352 | 1.52 | * | | KSR25 BO 16 10 17 15 |
| 0.0787 | 2 | 2.4409 | 62 | 1.4055 | 35.7 | 0.7087 | 18 | 1.7323 | 44 | 0.1575 | 4 | 2.955 | 1.34 | * | | KSR30 BO 16 10 15 15 |
| 0.1299 | 3.3 | 2.4409 | 62 | 1.4055 | 35.7 | 0.7087 | 18 | 1.7323 | 44 | 0.1575 | 4 | 4.41 | 2 | * | * | KSR30 BO 24 10 15 15 |

# Sprockets
## KSR..LO, KSR..KO SERIES

- Available sprockets are steel, powdered iron or plastic




KSR..LO



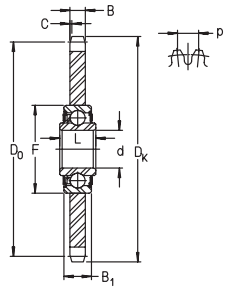

KSR..KO

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

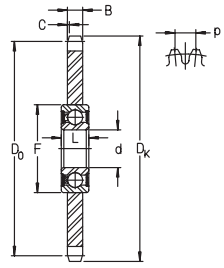
| PART NUMBER | SHAFT d inch | SHAFT d mm | PITCH p inch | PITCH p inch | PIT CH p mm | TEETH z qty | B inch | B mm | $D_0$ inch | $D_0$ mm | $D_k$ inch | $D_k$ mm | ANSI CHAIN REF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| KSR 16 LO 06 10 20 08 | 0.630 | 16 | 3/8” | 0.375 | 9.525 | 20 | 0.205 | 5.2 | 2.398 | 60.9 | 2.559 | 65 | |
| KSR 16 LO 06 10 20 22 | 0.630 | 16 | 3/8” | 0.375 | 9.525 | 20 | 0.205 | 5.2 | 2.398 | 60.9 | 2.559 | 65 | |
| KSR 16 LO 08 10 16 08 | 0.630 | 16 | 1/2” | 0.5 | 12.7 | 16 | 0.276 | 7 | 2.563 | 65.1 | 2.776 | 70.5 | 40 |
| KSR 16 LO 08 10 16 22 | 0.630 | 16 | 1/2” | 0.5 | 12.7 | 16 | 0.276 | 7 | 2.563 | 65.1 | 2.776 | 70.5 | 40 |
| KSR 16 LO 08 10 18 08 | 0.630 | 16 | 1/2” | 0.5 | 12.7 | 18 | 0.276 | 7 | 2.878 | 73.1 | 3.095 | 78.6 | 40 |
| KSR 16 LO 08 10 18 09 | 0.630 | 16 | 1/2” | 0.5 | 12.7 | 18 | 0.276 | 7 | 2.878 | 73.1 | 3.095 | 78.6 | 40 |
| KSR 16 LO 08 10 18 16 | 0.630 | 16 | 1/2” | 0.5 | 12.7 | 18 | 0.276 | 7 | 2.878 | 73.1 | 3.095 | 78.6 | 40 |
| KSR 16 LO 08 10 18 22 | 0.630 | 16 | 1/2” | 0.5 | 12.7 | 18 | 0.276 | 7 | 2.878 | 73.1 | 3.095 | 78.6 | 40 |
| KSR 16 LO 10 10 14 08 | 0.630 | 16 | 5/8” | 0.625 | 15.875 | 14 | 0.343 | 8.7 | 2.807 | 71.3 | 3.071 | 78 | 50 |
| KSR 16 LO 10 10 14 22 | 0.630 | 16 | 5/8” | 0.625 | 15.875 | 14 | 0.343 | 8.7 | 2.807 | 71.3 | 3.071 | 78 | 50 |
| KSR 16 LO 10 10 17 08 | 0.630 | 16 | 5/8” | 0.625 | 15.875 | 17 | 0.343 | 8.7 | 3.402 | 86.4 | 3.665 | 93.1 | 50 |
| KSR 16 LO 10 10 17 09 | 0.630 | 16 | 5/8” | 0.625 | 15.875 | 17 | 0.343 | 8.7 | 3.402 | 86.4 | 3.665 | 93.1 | 50 |
| KSR 16 LO 10 10 17 22 | 0.630 | 16 | 5/8” | 0.625 | 15.875 | 17 | 0.343 | 8.7 | 3.402 | 86.4 | 3.665 | 93.1 | 50 |
| KSR 16 LO 12 10 13 08 | 0.630 | 16 | 3/4” | 0.75 | 19.05 | 13 | 0.413 | 10.5 | 3.134 | 79.6 | 3.425 | 87 | 60 |
| KSR 16 LO 12 10 13 22 | 0.630 | 16 | 3/4” | 0.75 | 19.05 | 13 | 0.413 | 10.5 | 3.134 | 79.6 | 3.425 | 87 | 60 |
| KSR 16 LO 12 10 15 08 | 0.630 | 16 | 3/4” | 0.75 | 19.05 | 15 | 0.413 | 10.5 | 3.606 | 91.6 | 3.906 | 99.2 | 60 |
| KSR 16 LO 12 10 15 09 | 0.630 | 16 | 3/4” | 0.75 | 19.05 | 15 | 0.413 | 10.5 | 3.606 | 91.6 | 3.906 | 99.2 | 60 |
| KSR 16 LO 12 10 15 22 | 0.630 | 16 | 3/4” | 0.75 | 19.05 | 15 | 0.413 | 10.5 | 3.606 | 91.6 | 3.906 | 99.2 | 60 |
| KSR 16 LO 12 10 17 15 | 0.630 | 16 | 3/4” | 0.75 | 19.05 | 17 | 0.413 | 10.5 | 4.083 | 103.7 | 4.386 | 111.4 | 60 |
| KSR 16 LO 12 10 20 15 | 0.630 | 16 | 3/4” | 0.75 | 19.05 | 20 | 0.413 | 10.5 | 4.795 | 121.8 | 5.118 | 130 | 60 |
| KSR 20 LO 16 10 12 15 | 0.787 | 20 | 1” | 1 | 25.4 | 12 | 0.602 | 15.3 | 3.862 | 98.1 | 4.236 | 107.6 | 80 |
| KSR 20 LO 16 10 12 16 | 0.787 | 20 | 1” | 1 | 25.4 | 12 | 0.602 | 15.3 | 3.862 | 98.1 | 4.236 | 107.6 | 80 |
| KSR 20 LO 16 10 12 22 | 0.787 | 20 | 1” | 1 | 25.4 | 12 | 0.602 | 15.3 | 3.862 | 98.1 | 4.236 | 107.6 | 80 |
| KSR 25 LO 20 10 09 16 | 0.984 | 25 | 1 1/4” | 1.25 | 31.75 | 9 | 0.693 | 17.6 | 3.654 | 92.8 | 4.055 | 103 | 100 |
| KSR 25 LO 20 10 13 15 | 0.984 | 25 | 1 1/4” | 1.25 | 31.75 | 13 | 0.693 | 17.6 | 5.224 | 132.7 | 5.669 | 144 | 100 |
| KSR 40 KO 08 20 38 15 | 1.575 | 40 | 1/2” | 0.5 | 12.7 | 38 | 0.280 | 7.1 | 6.055 | 153.8 | 6.260 | 159 | 40 |
| KSR 40 KO 10 20 30 15 | 1.575 | 40 | 5/8” | 0.625 | 15.875 | 30 | 0.343 | 8.7 | 5.984 | 152 | 6.221 | 158 | 50 |

# Sprockets
## KSR..LO, KSR..KO SERIES

- Available sprockets are steel, powdered iron or plastic




KSR..LO



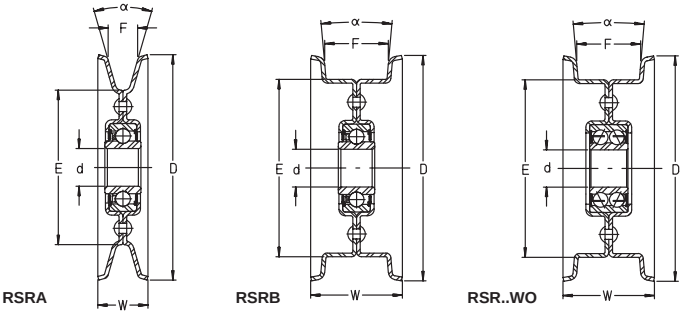

KSR..KO

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| $C_{min}$ inch | $C_{min}$ mm | F inch | F mm | L inch | L mm | $B_1$ inch | $B_1$ mm | $R_{max}$ inch | $R_{max}$ mm | WGT. lbs | WGT. kg | DIN 8187 CHAIN | DIN 8188 CHAIN | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.032 | 0.8 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.309 | 0.14 | * | | KSR 16 LO 06 10 20 08 |
| 0.032 | 0.8 | 1.575 | 40 | 0.721 | 18.3 | 0.709 | 18 | 1.890 | 48 | 0.221 | 0.1 | * | * | KSR 16 LO 06 10 20 22 |
| 0.043 | 1.1 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.353 | 0.16 | * | * | KSR 16 LO 08 10 16 08 |
| 0.043 | 1.1 | 1.575 | 40 | 0.721 | 18.3 | 0.713 | 18.1 | 1.890 | 48 | 0.221 | 0.1 | * | * | KSR 16 LO 08 10 16 22 |
| 0.043 | 1.1 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.463 | 0.21 | * | * | KSR 16 LO 08 10 18 08 |
| 0.043 | 1.1 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.463 | 0.21 | * | * | KSR 16 LO 08 10 18 09 |
| 0.043 | 1.1 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.463 | 0.21 | * | * | KSR 16 LO 08 10 18 16 |
| 0.043 | 1.1 | 1.575 | 40 | 0.721 | 18.3 | 0.709 | 18 | 1.890 | 48 | 0.331 | 0.15 | * | * | KSR 16 LO 08 10 18 22 |
| 0.051 | 1.3 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.463 | 0.21 | * | * | KSR 16 LO 10 10 14 08 |
| 0.051 | 1.3 | 1.575 | 40 | 0.721 | 18.3 | 0.713 | 18.1 | 1.890 | 48 | 0.463 | 0.21 | * | * | KSR 16 LO 10 10 14 22 |
| 0.051 | 1.3 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.706 | 0.32 | * | * | KSR 16 LO 10 10 17 08 |
| 0.051 | 1.3 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.706 | 0.32 | * | * | KSR 16 LO 10 10 17 09 |
| 0.051 | 1.3 | 1.575 | 40 | 0.721 | 18.3 | 0.709 | 18 | 1.890 | 48 | 0.573 | 0.26 | * | * | KSR 16 LO 10 10 17 22 |
| 0.059 | 1.5 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.728 | 0.33 | * | * | KSR 16 LO 12 10 13 08 |
| 0.059 | 1.5 | 1.575 | 40 | 0.721 | 18.3 | 0.709 | 18 | 1.890 | 48 | 0.595 | 0.27 | * | | KSR 16 LO 12 10 13 22 |
| 0.059 | 1.5 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.926 | 0.42 | * | * | KSR 16 LO 12 10 15 08 |
| 0.059 | 1.5 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 0.926 | 0.42 | * | * | KSR 16 LO 12 10 15 09 |
| 0.059 | 1.5 | 1.575 | 40 | 0.721 | 18.3 | 0.709 | 18 | 1.890 | 48 | 0.794 | 0.36 | * | * | KSR 16 LO 12 10 15 22 |
| 0.059 | 1.5 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 1.279 | 0.58 | * | * | KSR 16 LO 12 10 17 15 |
| 0.059 | 1.5 | 1.575 | 40 | 0.721 | 18.3 | 0.472 | 12 | | | 1.896 | 0.86 | * | * | KSR 16 LO 12 10 20 15 |
| 0.079 | 2 | 1.850 | 47 | 0.697 | 17.7 | 0.551 | 14 | | | 1.544 | 0.7 | * | | KSR 20 LO 16 10 12 15 |
| 0.079 | 2 | 1.850 | 47 | 0.697 | 17.7 | 0.551 | 14 | | | 1.544 | 0.7 | * | | KSR 20 LO 16 10 12 16 |
| 0.079 | 2 | 1.850 | 47 | 0.697 | 17.7 | 0.866 | 22 | 2.165 | 55 | 0.419 | 0.19 | * | * | KSR 20 LO 16 10 12 22 |
| 0.098 | 2.5 | 2.047 | 52 | 0.827 | 21 | 0.591 | 15 | | | 1.764 | 0.8 | * | * | KSR 25 LO 20 10 09 16 |
| 0.098 | 2.5 | 2.047 | 52 | 0.827 | 21 | 0.591 | 15 | | | 3.528 | 1.6 | * | * | KSR 25 LO 20 10 13 15 |
| 0.039 | 1 | 3.150 | 80 | 0.709 | 18 | | | | | 2.205 | 1 | | * | KSR 40 KO 08 20 38 15 |
| 0.051 | 1.3 | 3.150 | 80 | 0.709 | 18 | | | | | 2.426 | 1.1 | * | * | KSR 40 KO 10 20 30 15 |

# Idler Pulleys
## RSR SERIES

- Sheet steel construction for low weight
- Series A for V belts
- Series B for flat, round or wide V belts
- Series C and D for round belts, rope or steel cable



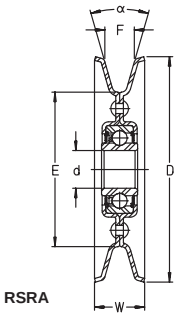

RSRA RSRB RSR..WO

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

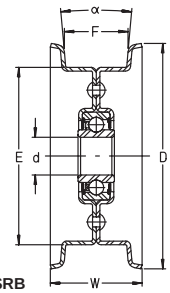
| PART NUMBER | SHAFT d inch | SHAFT d mm | D inch | D mm | E inch | E mm | F inch | F mm | W inch | W mm | TYPE | ANGLE deg |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RSR A 15 90 LO | 0.591 | 15 | 3.543 | 90 | 2.425 | 61.6 | 0.488 | 12.4 | 0.787 | 20 | A | 32 |
| RSR A 17 102 KO | 0.669 | 17 | 4.015 | 102 | 2.787 | 70.8 | 0.5 | 12.7 | 0.866 | 22 | A | 34 |
| RSR A 13 129 LO | 0.512 | 13 | 5.078 | 129 | 2.901 | 73.7 | 0.87 | 22.1 | 1.252 | 31.8 | A | 32 |
| RSR A 16 129 LO | 0.630 | 16 | 5.078 | 129 | 2.901 | 73.7 | 0.87 | 22.1 | 1.252 | 31.8 | A | 32 |
| RSR A 13 186 LO | 0.512 | 13 | 7.322 | 186 | 5.149 | 130.8 | 0.87 | 22.1 | 1.252 | 31.8 | A | 32 |
| RSR A 16 186 LO | 0.630 | 16 | 7.322 | 186 | 5.149 | 130.8 | 0.87 | 22.1 | 1.252 | 31.8 | A | 32 |
| RSR B 15 92 LO | 0.591 | 15 | 3.622 | 92 | 3 | 76.2 | 0.874 | 22.2 | 1.22 | 31 | B | 10 |
| RSR B 13 117 LO | 0.512 | 13 | 4.606 | 117 | 3.976 | 101 | 1 | 25.4 | 1.417 | 36 | B | 10 |
| RSR B 16 117 LO | 0.630 | 16 | 4.606 | 117 | 3.976 | 101 | 1 | 25.4 | 1.417 | 36 | B | 10 |
| RSR B 13 159 LO | 0.512 | 13 | 6.259 | 159 | 5.5 | 139.7 | 1 | 25.4 | 1.437 | 36.5 | B | 10 |
| RSR B 16 159 LO | 0.630 | 16 | 6.259 | 159 | 5.5 | 139.7 | 1 | 25.4 | 1.437 | 36.5 | B | 10 |
| RSR B 17 159 WO | 0.669 | 17 | 6.259 | 159 | 5.5 | 139.7 | 1 | 25.4 | 1.437 | 36.5 | B/WO | 10 |
| RSR B 13 222 LO | 0.512 | 13 | 8.74 | 222 | 7.992 | 203 | 1.496 | 38 | 1.968 | 50 | B | 10 |
| RSR B 16 222 LO | 0.630 | 16 | 8.74 | 222 | 7.992 | 203 | 1.496 | 38 | 1.968 | 50 | B | 10 |
| RSR B 17 222 WO | 0.669 | 17 | 8.74 | 222 | 7.992 | 203 | 1.732 | 44 | 2.126 | 54 | B/WO | 10 |
| RSR D 25 150 LO | 0.984 | 25 | 6.063 | 154 | 5.236 | 133 | 0.669 | 17 | 0.944 | 24 | D | _ |
| RSR D 20 160 LO | 0.787 | 20 | 6.133 | 155.8 | 5.374 | 136.5 | 0.531 | 13.5 | 0.689 | 17.5 | D | _ |

# Idler Pulleys
## RSR SERIES

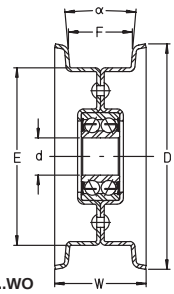
- Sheet steel construction for low weight
- Series A for V belts
- Series B for flat, round or wide V belts
- Series C and D for round belts, rope or steel cable



RSRA



RSRB



RSR..WO

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| WGT. lbs | WGT. kg | FOR V-BELT SIZE TO DIN2215 (ISO/R434, ISO/R60 (DIN7753, ISO/R460 | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | REFERENCE BEARING | PART NUMBER |
|---|---|---|---|---|---|---|---|---|
| 0.53 | 0.24 | 8,10, (12 | 1710 | 7600 | 830 | 3700 | 202 KRR | RSR A 15 90 LO |
| 0.93 | 0.42 | 8,10, (12 | 2150 | 9600 | 1070 | 4750 | 6203 2 RS | RSR A 17 102 KO |
| 1.24 | 0.56 | 13,17, 20, 22 | 2150 | 9600 | 1070 | 4750 | 203 KRRAH05 | RSR A 13 129 LO |
| 1.19 | 0.54 | 13,17, 20, 22 | 2150 | 9600 | 1070 | 4750 | 203 KRRAH02 | RSR A 16 129 LO |
| 2.49 | 1.13 | 13,17, 20, 22 | 2150 | 9600 | 1070 | 4750 | 203 KRRAH05 | RSR A 13 186 LO |
| 2.45 | 1.11 | 13,17, 20, 22 | 2150 | 9600 | 1070 | 4750 | 203 KRRAH02 | RSR A 16 186 LO |
| 0.68 | 0.31 | | 1710 | 7600 | 830 | 3700 | 202 KRR | RSR B 15 92 LO |
| 1.1 | 0.5 | | 2150 | 9600 | 1070 | 4750 | 203 KRRAH05 | RSR B 13 117 LO |
| 1.06 | 0.48 | | 2150 | 9600 | 1070 | 4750 | 203 KRRAH02 | RSR B 16 117 LO |
| 1.76 | 0.8 | | 2150 | 9600 | 1070 | 4750 | 203 KRRAH05 | RSR B 13 159 LO |
| 1.72 | 0.78 | | 2150 | 9600 | 1070 | 4750 | 203 KRRAH02 | RSR B 16 159 LO |
| 1.48 | 0.67 | | 3350 | 14800 | 2040 | 9100 | 3203 2 RS | RSR B 17 159 WO |
| 3.24 | 1.47 | | 2150 | 9600 | 1070 | 4750 | 203 KRRAH05 | RSR B 13 222 LO |
| 3.2 | 1.45 | | 2150 | 9600 | 1070 | 4750 | 203 KRRAH02 | RSR B 16 222 LO |
| 3.31 | 1.5 | | 3350 | 14800 | 2040 | 9100 | 3203 2 RS | RSR B 17 222 WO |
| 1.83 | 0.83 | | 3150 | 14000 | 1760 | 7800 | 205 KRR | RSR D 25 150 LO |
| 1.65 | 0.75 | | 2900 | 12800 | 1480 | 6600 | 204 KRR | RSR D 20 160 LO |

# NOTES

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## PRODUCT DESCRIPTION

### INA Combination Axial Ball And Radial Needle Bearings

- Radial precision ground needle bearing designed on ISO series NA4900 cross section.
- Various axial ball thrust bearings for light to heavy thrust loads adds length to bearing and may increase the outside diameter.
- Designed for applications where the thrust load is secondary to the radial load.

### INA Combination Axial And Radial Needle Bearings

- Radial precision ground needle bearing designed on ISO series NA4900 cross section.
- Axial cylindrical thrust bearing for heavy thrust loads based on series 81100.
- Designed for applications where axial preload is required.

### INA Combination Bearings For Ball Screw Support

- Matched axial cylindrical roller thrust cages with radial needle support.
- Made to P4 (ABEC 7) runout values for thrust.
- Extremely high rigidity with easily repeatable preloads.
- Available with predrilled integral mounting flange for ease of assembly without increased tolerance stack up.
- Available with seal mounting accessories.

### INA 60° Contact Angle Angular Contact Ball Thrust Bearings For Ball Screw Support

- Individual bearings consist of 2 rows as a back to back arrangement with a single outer ring.
- Available as 2 matched bearings for 4 row applications.
- Available as 3 row design with one piece outer ring for stretched or vertical screws.
- Made to P4 (ABEC 7) axial runout values or available as PE version with P5(ABEC 5) runout.
- Available with integral shields or seals.
- Available with predrilled integral mounting flange for ease of assembly without increased tolerance stack up.
- Allows for economical arrangements since seals and mounting flanges included, reducing the need for associated parts.

### INA Precision Locknuts

- Metric thread locknuts for high axial clamping forces.
- Designed with large axial and radial cross section for increased rigidity.
- Available with radial clamping plugs or axial deflection beams for doubling the back off torque.

### INA Rotary Table Bearings

- Specialty bearing series for machine tool rotary tables and robots.
- Available in P4 precision for rotary tables with flange designs similar to Ball Screw Support Bearings.

### INA YRT Series Bearings

- Large, double direction axial bearings with a radial guidance bearing.
- Support load combinations consisting of axial and radial forces as well as tilting moments.
- Holes are provided in the outer and inner rings which are suitable for flange mounting.
- The bearing consists of two axial needle roller and cage assemblies which are matched to the rings in such a way that a predetermined axial preload is achieved.
- Made to P4 (ABEC 7) tolerances.

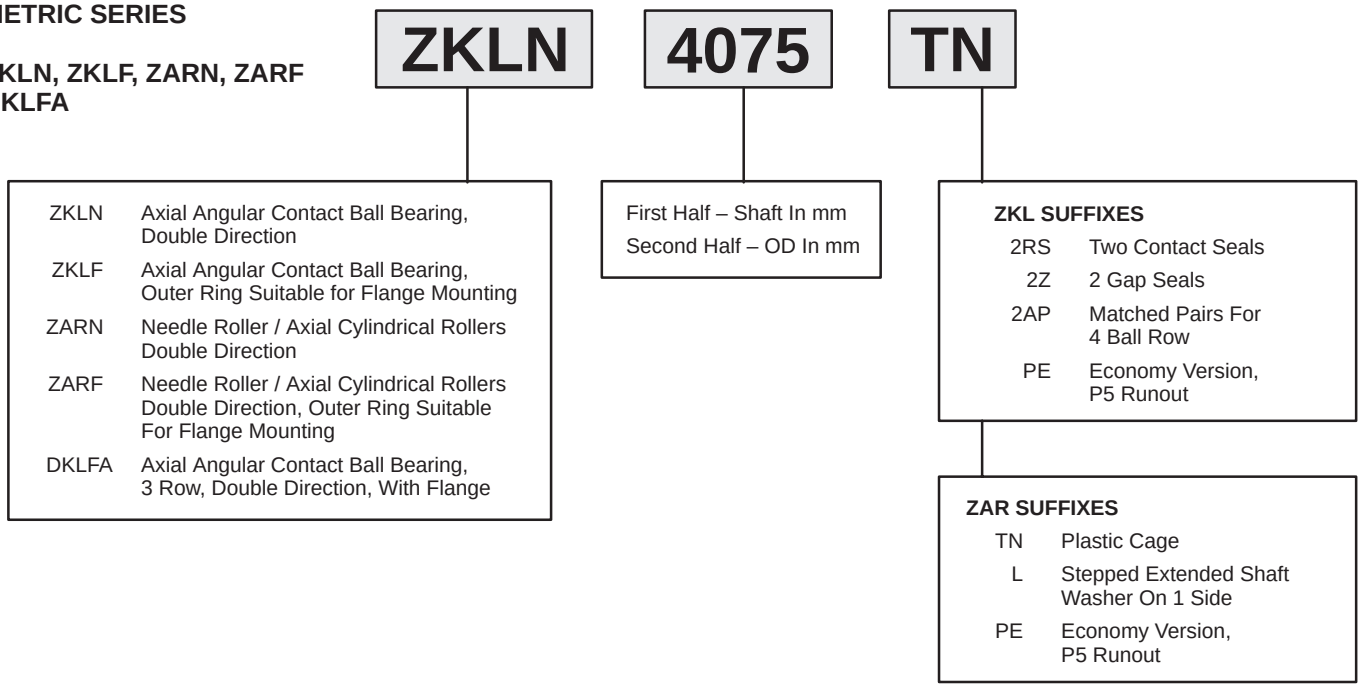
### INA ZKLDF Series Bearings

- Axial angular contact ball bearings of series ZKLDF are double row angular contact ball bearings with a 60° contact angle set in an “O” arrangement.
- They can support load combinations consisting of axial and radial forces as well as tilting moments.
- Bearings of this series have gap seals on both sides.
- The two-piece inner ring is matched to the two ball cages and the outer ring for a defined preload.
- The dimensional tolerances are class P5 (ABEC 5) and the geometrical tolerances are class P4 (ABEC 7) to DIN 620.

# Part Number Identification
## HIGH PRECISION BEARINGS

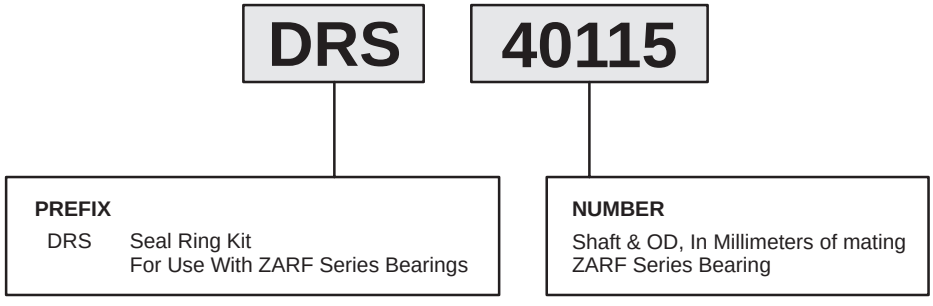
### AXIAL ANGULAR CONTACT BALL BEARINGS AND NEEDLE ROLLER / AXIAL CYLINDRICAL ROLLER BEARINGS METRIC SERIES

**ZKLN, ZKLF, ZARN, ZARF DKLFA**




### ZARF COMBINATION SEALS METRIC SERIES

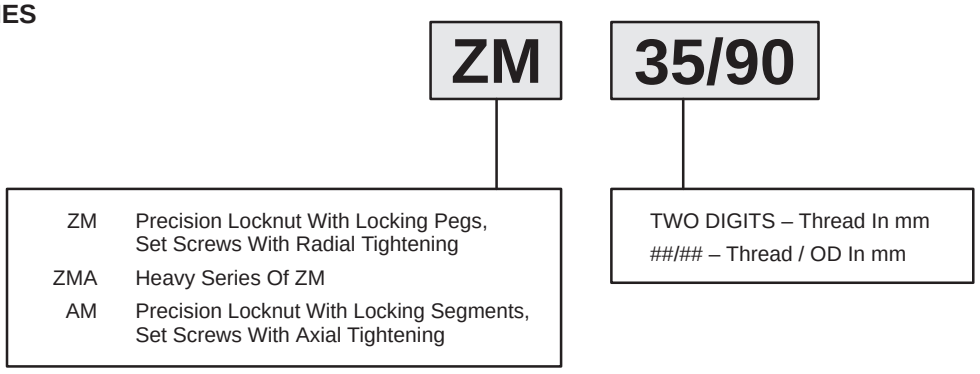
**DRS**



# Part Number Identification
## HIGH PRECISION BEARINGS

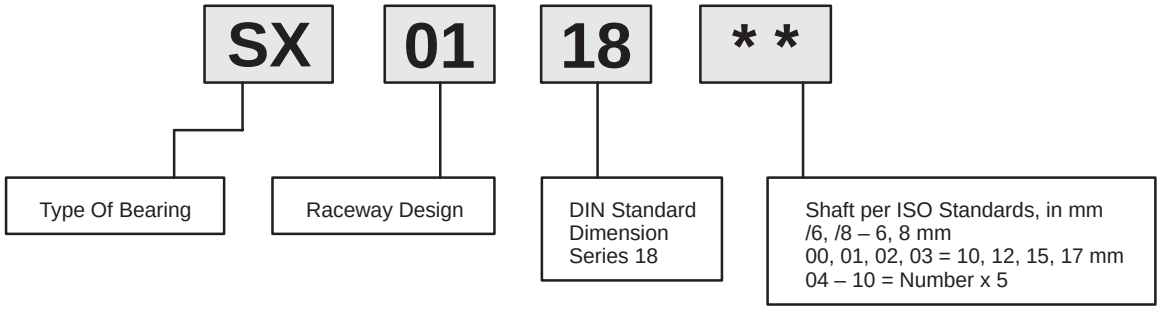
### LOCKNUTS
### METRIC SERIES

**ZM, ZMA, AM**



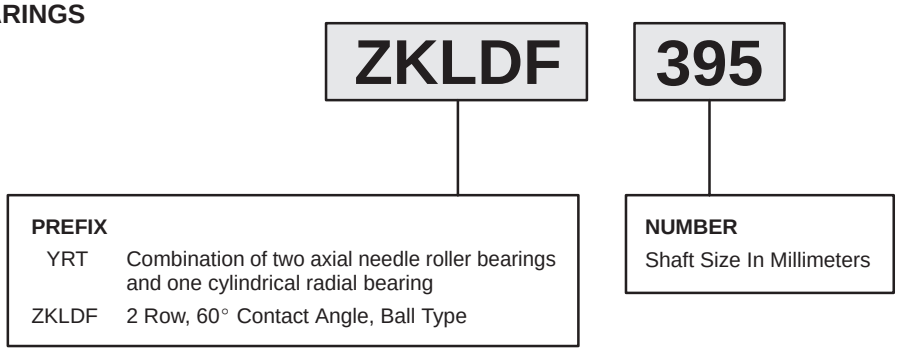

### CROSSED ROLLER BEARINGS
### METRIC SERIES

**SX**




### MACHINE TOOL
### TURNTABLE BEARINGS
### METRIC SERIES

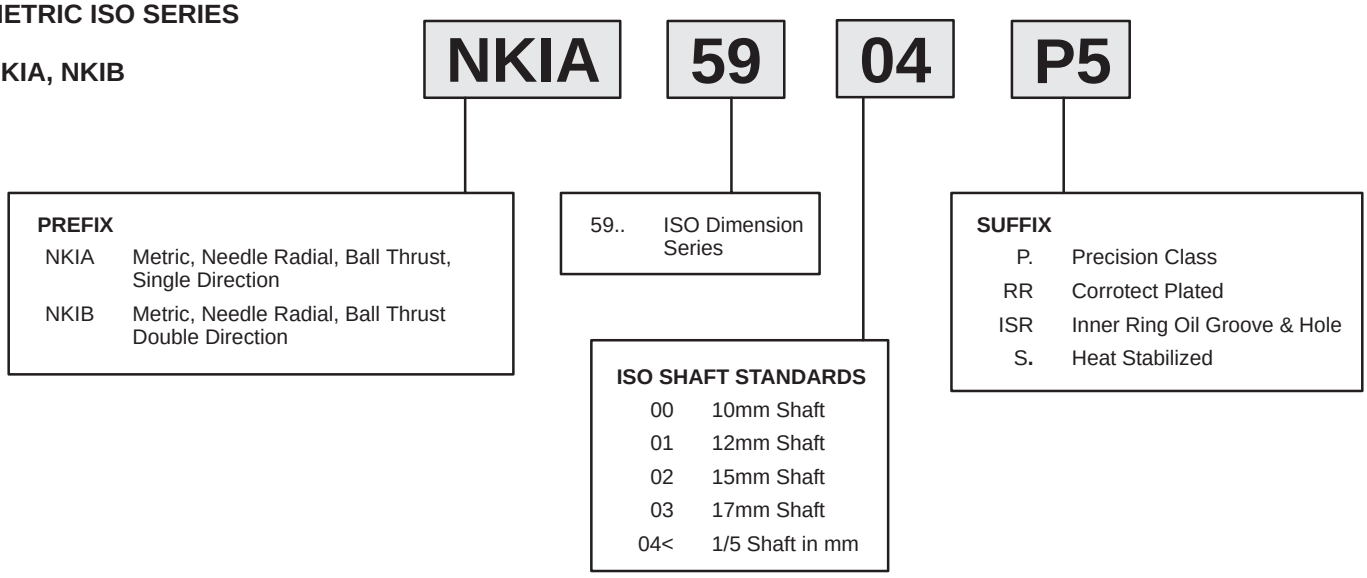
**YRT, ZKLDF**



# Part Number Identification
## HIGH PRECISION BEARINGS

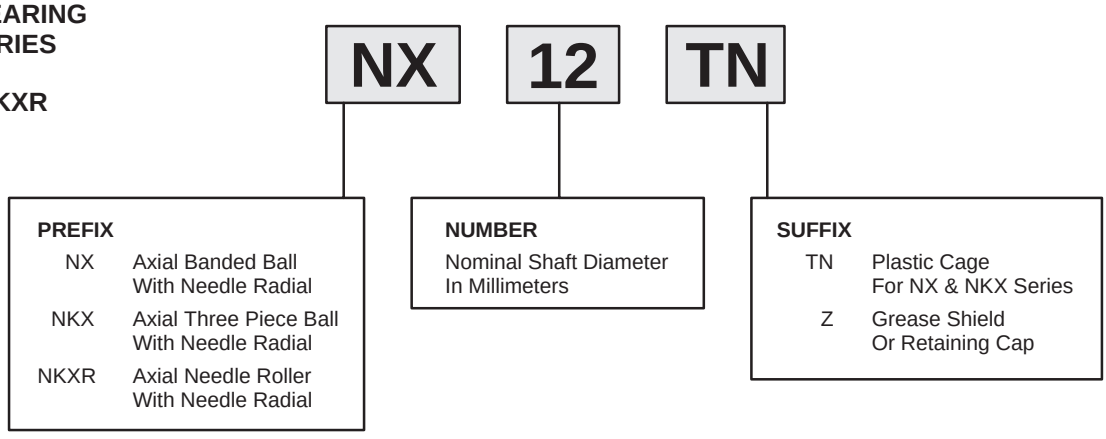
### COMBINATION BEARINGS METRIC ISO SERIES

**NKIA, NKIB**




### COMBINATION RADIAL NEEDLE BEARING METRIC SERIES

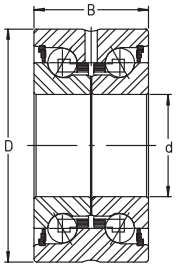
**NX, NKX, NKXR**



# Angular Contact Thrust Ball Bearings

## ZKLN..PE SERIES

- Double row, 60 degree contact angle
- Sealed
- For most ball screw support
- P5 runout with increased diameter tolerances




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WGT lbs | WGT kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZKLN 0624 2RS PE | 0.236 | 6 | 0.945 | 24 | 0.591 | 15 | 0.066 | 0.03 | 1,550 | 6900 | 1,910 | 8500 |
| ZKLN 1034 2RS PE | 0.394 | 10 | 1.339 | 34 | 0.787 | 20 | 0.221 | 0.1 | 3,000 | 13400 | 4,250 | 18800 |
| ZKLN 1242 2RS PE | 0.472 | 12 | 1.654 | 42 | 0.984 | 25 | 0.441 | 0.2 | 3,800 | 17000 | 5,600 | 24700 |
| ZKLN 1545 2RS PE | 0.591 | 15 | 1.772 | 45 | 0.984 | 25 | 0.463 | 0.21 | 4,000 | 17900 | 6,300 | 28000 |
| ZKLN 1747 2RS PE | 0.669 | 17 | 1.850 | 47 | 0.984 | 25 | 0.485 | 0.22 | 4,250 | 18800 | 7,000 | 31000 |
| F 822 17 | 0.669 | 17 | 1.850 | 47 | 1.181 | 30 | 0.617 | 0.28 | 5,800 | 26000 | 10,600 | 47000 |
| F 822 20 | 0.787 | 20 | 1.850 | 47 | 1.181 | 30 | 0.573 | 0.26 | 5,800 | 26000 | 10,600 | 47000 |
| ZKLN 2052 2RS PE | 0.787 | 20 | 2.047 | 52 | 1.102 | 28 | 0.684 | 0.31 | 5,800 | 26000 | 10,600 | 47000 |
| ZKLN 2557 2RS PE | 0.984 | 25 | 2.244 | 57 | 1.102 | 28 | 0.75 | 0.34 | 6,200 | 27500 | 12,400 | 55000 |
| F 822 25 | 0.984 | 25 | 2.441 | 62 | 1.181 | 30 | 1.014 | 0.46 | 6,500 | 29000 | 14,400 | 64000 |
| ZKLN 3062 2RS PE | 1.181 | 30 | 2.441 | 62 | 1.102 | 28 | 0.86 | 0.39 | 6,500 | 29000 | 14,400 | 64000 |
| F 822 30 | 1.181 | 30 | 2.441 | 62 | 1.181 | 30 | 0.904 | 0.41 | 6,500 | 29000 | 14,400 | 64000 |
| ZKLN 3572 2RS PE | 1.378 | 35 | 2.835 | 72 | 1.339 | 34 | 1.125 | 0.51 | 9,200 | 41000 | 20,000 | 89000 |
| ZKLN 4075 2RS PE | 1.575 | 40 | 2.953 | 75 | 1.339 | 34 | 1.345 | 0.61 | 9,700 | 43000 | 22,700 | 101000 |
| ZKLN 5090 2RS PE | 1.969 | 50 | 3.543 | 90 | 1.339 | 34 | 1.94 | 0.88 | 10,500 | 46500 | 28,500 | 126000 |

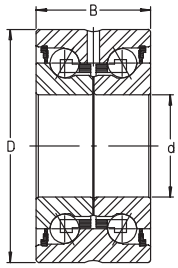
**CONTINUED FROM ABOVE**

| PART NUMBER | FRICTION in-lbf | FRICTION Nm | LOCKNUT | LOCKNUT TORQUE ft-lbf | LOCKNUT TORQUE Nm | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|
| ZKLN 0624 2RS PE | 0.35 | 0.04 | ZM 06 | 1.48 | 2 | 6800 |
| ZKLN 1034 2RS PE | 1.06 | 0.12 | ZM 10 | 4.43 | 6 | 4600 |
| ZKLN 1242 2RS PE | 1.42 | 0.16 | ZM 12 | 5.9 | 8 | 3800 |
| ZKLN 1545 2RS PE | 1.77 | 0.2 | ZM 15 | 7.38 | 10 | 3500 |
| ZKLN 1747 2RS PE | 2.12 | 0.24 | ZM 17/AM 17 | 11.06 | 15 | 3300 |
| F 822 17 | 2.66 | 0.3 | ZM 17/AM 17 | 12.5 | 17 | 3000 |
| F 822 20 | 2.66 | 0.3 | ZM 20/AM 20 | 13.28 | 18 | 3000 |
| ZKLN 2052 2RS PE | 2.66 | 0.3 | ZM 20/AM 20 | 13.28 | 18 | 3000 |
| ZKLN 2557 2RS PE | 3.54 | 0.4 | ZM 25/AM 25 | 18.44 | 25 | 2600 |
| F 822 25 | 4.43 | 0.5 | ZM 25/AM 25 | 21.4 | 29 | 2200 |
| ZKLN 3062 2RS PE | 4.43 | 0.5 | ZM 30/AM 30 | 23.6 | 32 | 2200 |
| F 822 30 | 4.43 | 0.5 | ZM 30/AM 30 | 23.6 | 32 | 2200 |
| ZKLN 3572 2RS PE | 5.31 | 0.6 | ZM 35/AM 35 | 29.5 | 40 | 2000 |
| ZKLN 4075 2RS PE | 6.2 | 0.7 | ZM 40/AM 40 | 40.6 | 55 | 1800 |
| ZKLN 5090 2RS PE | 7.97 | 0.9 | ZM 50/AM 50 | 62.7 | 85 | 1500 |

PE versions are relaxed tolerances for ball screw supports
F 822 numbers match competitors paired bearings

# Angular Contact Thrust Ball Bearings

## ZKLN SERIES




- Double row, 60 degree contact angle
- Sealed versions (2RS), also available shielded (2Z)
- For ball screw support
- P4 runout for highest precision

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

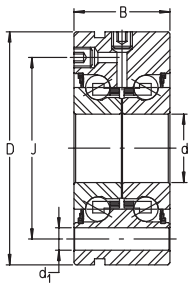
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WGT lbs | WGT kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZKLN 0619 2Z | 0.236 | 6 | 0.748 | 19 | 0.472 | 12 | 0.044 | 0.02 | 1,100 | 4900 | 1,400 | 6100 |
| ZKLN 0624 2RS | 0.236 | 6 | 0.945 | 24 | 0.591 | 15 | 0.066 | 0.03 | 1,550 | 6900 | 1,910 | 8500 |
| ZKLN 0832 2RS | 0.315 | 8 | 1.260 | 32 | 0.787 | 20 | 0.198 | 0.09 | 2,800 | 12500 | 3,650 | 16300 |
| ZKLN 1034 2RS | 0.394 | 10 | 1.339 | 34 | 0.787 | 20 | 0.221 | 0.1 | 3,000 | 13400 | 4,250 | 18800 |
| ZKLN 1242 2RS | 0.472 | 12 | 1.654 | 42 | 0.984 | 25 | 0.441 | 0.2 | 3,800 | 17000 | 5,600 | 24700 |
| ZKLN 1545 2RS | 0.591 | 15 | 1.772 | 45 | 0.984 | 25 | 0.463 | 0.21 | 4,000 | 17900 | 6,300 | 28000 |
| ZKLN 1747 2RS | 0.669 | 17 | 1.850 | 47 | 0.984 | 25 | 0.485 | 0.22 | 4,250 | 18800 | 7,000 | 31000 |
| ZKLN 2052 2RS | 0.787 | 20 | 2.047 | 52 | 1.102 | 28 | 0.684 | 0.31 | 5,800 | 26000 | 10,600 | 47000 |
| ZKLN 2557 2RS | 0.984 | 25 | 2.244 | 57 | 1.102 | 28 | 0.75 | 0.34 | 6,200 | 27500 | 12,400 | 55000 |
| ZKLN 3062 2RS | 1.181 | 30 | 2.441 | 62 | 1.102 | 28 | 0.86 | 0.39 | 6,500 | 29000 | 14,400 | 64000 |
| ZKLN 3072 2RS | 1.181 | 30 | 2.835 | 72 | 1.496 | 38 | 1.125 | 0.51 | 13,300 | 59000 | 24,300 | 108000 |
| ZKLN 3572 2RS | 1.378 | 35 | 2.835 | 72 | 1.339 | 34 | 1.125 | 0.51 | 9,200 | 41000 | 20,000 | 89000 |
| ZKLN 4075 2RS | 1.575 | 40 | 2.953 | 75 | 1.339 | 34 | 1.345 | 0.61 | 9,700 | 43000 | 22,700 | 101000 |
| ZKLN 4090 2RS | 1.575 | 40 | 3.543 | 90 | 1.811 | 46 | 2.095 | 0.95 | 16,200 | 72000 | 33,500 | 149000 |
| ZKLN 5090 2RS | 1.969 | 50 | 3.543 | 90 | 1.339 | 34 | 1.94 | 0.88 | 10,500 | 46500 | 28,500 | 126000 |
| ZKLN 50110 2RS | 1.969 | 50 | 4.331 | 110 | 2.126 | 54 | 5.513 | 2.5 | 25,500 | 113500 | 56,000 | 250000 |
| ZKLN 60110 2Z | 2.362 | 60 | 4.331 | 110 | 1.772 | 45 | 4.851 | 2.2 | 18,900 | 84000 | 48,000 | 214000 |
| ZKLN 70120 2Z | 2.756 | 70 | 4.724 | 120 | 1.772 | 45 | 5.292 | 2.4 | 19,800 | 88000 | 54,000 | 241000 |
| ZKLN 80130 2Z | 3.150 | 80 | 5.118 | 130 | 1.772 | 45 | 5.954 | 2.7 | 20,500 | 91000 | 60,000 | 265000 |
| ZKLN 90150 2Z | 3.543 | 90 | 5.906 | 150 | 2.165 | 55 | 9.923 | 4.5 | 30,500 | 135000 | 89,000 | 395000 |
| ZKLN 100160 2Z | 3.937 | 100 | 6.299 | 160 | 2.165 | 55 | 10.805 | 4.9 | 31,500 | 140000 | 98,000 | 435000 |

**CONTINUED FROM ABOVE**

| PART NUMBER | FRICTION in-lbf | FRICTION Nm | LOCKNUT | LOCKNUT TORQUE ft-lbf | LOCKNUT TORQUE Nm | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|
| ZKLN 0619 2Z | 0.09 | 0.01 | ZM 06 | 1.48 | 2 | 14000 |
| ZKLN 0624 2RS | 0.35 | 0.04 | ZM 06 | 1.48 | 2 | 6800 |
| ZKLN 0832 2RS | 0.71 | 0.08 | ZM 08 | 2.95 | 4 | 5100 |
| ZKLN 1034 2RS | 1.06 | 0.12 | ZM 10 | 4.43 | 6 | 4600 |
| ZKLN 1242 2RS | 1.42 | 0.16 | ZM 12 | 5.9 | 8 | 3800 |
| ZKLN 1545 2RS | 1.77 | 0.2 | ZM 15 | 7.38 | 10 | 3500 |
| ZKLN 1747 2RS | 2.12 | 0.24 | ZM 17/AM 17 | 11.06 | 15 | 3300 |
| ZKLN 2052 2RS | 2.66 | 0.3 | ZM 20/AM 20 | 13.28 | 18 | 3000 |
| ZKLN 2557 2RS | 3.54 | 0.4 | ZM 25/AM 25 | 18.44 | 25 | 2600 |
| ZKLN 3062 2RS | 4.43 | 0.5 | ZM 30/AM 30 | 23.6 | 32 | 2200 |
| ZKLN 3072 2RS | 7.08 | 0.8 | ZM 30/52 AM 30 | 47.9 | 65 | 2100 |
| ZKLN 3572 2RS | 5.31 | 0.6 | ZM 35/AM 35 | 29.5 | 40 | 2000 |
| ZKLN 4075 2RS | 6.2 | 0.7 | ZM 40/AM 40 | 40.6 | 55 | 1800 |
| ZKLN 4090 2RS | 11.5 | 1.3 | ZMA 40/62/AM 40 | 81.1 | 110 | 1600 |
| ZKLN 5090 2RS | 7.97 | 0.9 | ZM 50/AM 50 | 62.7 | 85 | 1500 |
| ZKLN 50110 2RS | 23.01 | 2.6 | ZM 50/75/AM 50 | 110.6 | 150 | 2500 |
| ZKLN 60110 2Z | 8.85 | 1 | ZMA 60/98 AM 60 | 73.8 | 100 | 2400 |
| ZKLN 70120 2Z | 10.62 | 1.2 | ZMA 70/110 AM 70 | 95.9 | 130 | 2200 |
| ZKLN 80130 2Z | 12.39 | 1.4 | ZMA 80/120 | 118.0 | 160 | 2100 |
| ZKLN 90150 2Z | 20.36 | 2.3 | ZMA 90/130 AM 90 | 147.5 | 200 | 1800 |
| ZKLN 100160 2Z | 23.01 | 2.6 | ZMA 100/140 | 184.4 | 250 | 1700 |

# Angular Contact Thrust Ball Bearings

## ZKLF..PE SERIES




- Double row, 60 degree contact angle
- Sealed
- For most ball screw support
- With predrilled mounting flange
- P5 runout with increased diameter tolerances

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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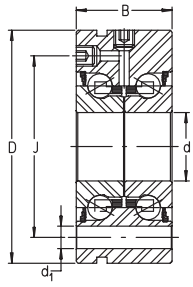
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WGT lbs | WGT kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZKLF 1255 2RS PE | 0.472 | 12 | 2.165 | 55 | 0.984 | 25 | 0.82 | 0.37 | 3,800 | 17000 | 5,600 | 24700 |
| ZKLF 1560 2RS PE | 0.591 | 15 | 2.362 | 60 | 0.984 | 25 | 0.95 | 0.43 | 4,000 | 17900 | 6,300 | 28000 |
| ZKLF 1762 2RS PE | 0.669 | 17 | 2.441 | 62 | 0.984 | 25 | 0.99 | 0.45 | 4,250 | 18800 | 7,000 | 31000 |
| ZKLF 2068 2RS PE | 0.787 | 20 | 2.677 | 68 | 1.102 | 28 | 1.35 | 0.61 | 5,800 | 26000 | 10,600 | 47000 |
| ZKLF 2575 2RS PE | 0.984 | 25 | 2.953 | 75 | 1.102 | 28 | 1.59 | 0.72 | 6,200 | 27500 | 12,400 | 55000 |
| ZKLF 3080 2RS PE | 1.181 | 30 | 3.150 | 80 | 1.102 | 28 | 1.72 | 0.78 | 6,500 | 29000 | 14,400 | 64000 |
| ZKLF 3590 2RS PE | 1.378 | 35 | 3.543 | 90 | 1.339 | 34 | 2.49 | 1.13 | 9,200 | 41000 | 20,000 | 89000 |
| ZKLF 40100 2RS PE | 1.575 | 40 | 3.937 | 100 | 1.339 | 34 | 3.22 | 1.46 | 9,700 | 43000 | 22,700 | 101000 |
| ZKLF 50115 2RS PE | 1.969 | 50 | 4.528 | 115 | 1.339 | 34 | 4.10 | 1.86 | 10,500 | 46500 | 28,500 | 126000 |

**CONTINUED FROM ABOVE**

| PART NUMBER | J inch | J mm | $d_1$ inch | $d_1$ mm | FRICTION in-lbf | FRICTION Nm | BOLTS SIZE & GRADE | BOLTS QTY. | LOCKNUT | LOCKNUT TORQUE ft-lbf | LOCKNUT TORQUE Nm | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZKLF 1255 2RS PE | 1.654 | 42 | 0.256 | 6.5 | 1.42 | 0.16 | M6–10.9 | 3 | ZM 12 | 5.9 | 8 | 3800 |
| ZKLF 1560 2RS PE | 1.811 | 46 | 0.256 | 6.5 | 1.77 | 0.2 | M6–10.9 | 3 | ZM 15 | 7.4 | 10 | 3500 |
| ZKLF 1762 2RS PE | 1.890 | 48 | 0.256 | 6.5 | 2.12 | 0.24 | M6–10.9 | 3 | ZM 17/AM 17 | 11.1 | 15 | 3300 |
| ZKLF 2068 2RS PE | 2.087 | 53 | 0.256 | 6.5 | 2.66 | 0.3 | M6–10.9 | 4 | ZM 20/AM 20 | 13.3 | 18 | 3000 |
| ZKLF 2575 2RS PE | 2.284 | 58 | 0.256 | 6.5 | 3.54 | 0.4 | M6–10.9 | 4 | ZM 25/AM 25 | 18.4 | 25 | 2600 |
| ZKLF 3080 2RS PE | 2.480 | 63 | 0.256 | 6.5 | 4.43 | 0.5 | M6–10.9 | 6 | ZM 30/AM 30 | 23.6 | 32 | 2200 |
| ZKLF 3590 2RS PE | 2.953 | 75 | 0.256 | 8.5 | 5.31 | 0.6 | M8–10.9 | 4 | ZM 35/AM 35 | 29.5 | 40 | 2000 |
| ZKLF 40100 2RS PE | 3.150 | 80 | 0.335 | 8.5 | 6.2 | 0.7 | M8–10.9 | 4 | ZM 40/AM 40 | 40.6 | 55 | 1800 |
| ZKLF 50115 2RS PE | 3.701 | 94 | 0.335 | 8.5 | 7.97 | 0.9 | M8–10.9 | 6 | ZM 50/AM 50 | 62.7 | 85 | 1500 |

# Angular Contact Thrust Ball Bearings

## ZKLF SERIES




- Double row, 60 degree contact angle
- Sealed version (2RS), also available shielded (2Z)
- With predrilled mounting flange
- For ball screw support
- P4 runout for highest precision

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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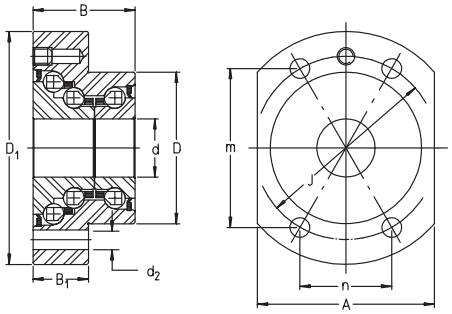
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WGT lbs | WGT kg | DYN. CAP. C lbf | DYN. CAP. C N | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ N | J inch | J mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZKLF 1255 2RS | 0.472 | 12 | 2.165 | 55 | 0.984 | 25 | 0.82 | 0.37 | 3,800 | 17000 | 5,600 | 24700 | 1.654 | 42 |
| ZKLF 1560 2RS | 0.591 | 15 | 2.362 | 60 | 0.984 | 25 | 0.95 | 0.43 | 4,000 | 17900 | 6,300 | 28000 | 1.811 | 46 |
| ZKLF 1762 2RS | 0.669 | 17 | 2.441 | 62 | 0.984 | 25 | 0.99 | 0.45 | 4,250 | 18800 | 7,000 | 31000 | 1.89 | 48 |
| ZKLF 2068 2RS | 0.787 | 20 | 2.677 | 68 | 1.102 | 28 | 1.35 | 0.61 | 5,800 | 26000 | 10,600 | 47000 | 2.087 | 53 |
| ZKLF 2575 2RS | 0.984 | 25 | 2.953 | 75 | 1.102 | 28 | 1.59 | 0.72 | 6,200 | 27500 | 12,400 | 55000 | 2.284 | 58 |
| ZKLF 3080 2RS | 1.181 | 30 | 3.15 | 80 | 1.102 | 28 | 1.72 | 0.78 | 6,500 | 29000 | 14,400 | 64000 | 2.48 | 63 |
| ZKLF 3590 2RS | 1.378 | 35 | 3.543 | 90 | 1.339 | 34 | 2.49 | 1.13 | 9,200 | 41000 | 20,000 | 89000 | 2.953 | 75 |
| ZKLF 40100 2RS | 1.575 | 40 | 3.937 | 100 | 1.339 | 34 | 3.22 | 1.46 | 9,700 | 43000 | 22,700 | 101000 | 3.15 | 80 |
| ZKLF 40115 2RS | 1.575 | 40 | 4.528 | 115 | 1.811 | 46 | 5 | 2.2 | 16,200 | 72000 | 33,500 | 149000 | 3.701 | 94 |
| ZKLF 50115 2RS | 1.969 | 50 | 4.528 | 115 | 1.339 | 34 | 4.1 | 1.86 | 10,500 | 46500 | 28,500 | 126000 | 3.701 | 94 |
| ZKLF 50140 2RS | 1.969 | 50 | 5.512 | 140 | 2.126 | 54 | 10.36 | 4.7 | 25,500 | 113000 | 56,000 | 250000 | 4.449 | 113 |
| ZKLF 60145 2Z | 2.362 | 60 | 5.709 | 145 | 1.772 | 45 | 9.48 | 4.3 | 18,900 | 84000 | 48,000 | 214000 | 4.724 | 120 |
| ZKLF 70155 2Z | 2.756 | 70 | 6.102 | 155 | 1.772 | 45 | 10.81 | 4.9 | 19,800 | 88000 | 54,000 | 241000 | 5.118 | 130 |
| ZKLF 80165 2Z | 3.15 | 80 | 6.496 | 165 | 1.772 | 45 | 11.69 | 5.3 | 20,500 | 91000 | 60,000 | 265000 | 5.512 | 140 |
| ZKLF 90190 2Z | 3.543 | 90 | 7.48 | 190 | 2.165 | 55 | 19.18 | 8.7 | 30,500 | 135000 | 89,000 | 395000 | 6.496 | 165 |
| ZKLF 100200 2Z | 3.937 | 100 | 7.874 | 200 | 2.165 | 55 | 20.51 | 9.3 | 31,500 | 140000 | 98,000 | 435000 | 6.89 | 175 |

**CONTINUED FROM ABOVE**

| PART NUMBER | $d_1$ inch | $d_1$ mm | FRICTION in-lbf | FRICTION Nm | BOLTS SIZE & GRADE | BOLTS QTY. | LOCKNUT | LOCKNUT TORQUE ft-lbf | LOCKNUT TORQUE Nm | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|
| ZKLF 1255 2RS | 0.256 | 6.5 | 1.42 | 0.16 | M6–10.9 | 3 | ZM 12 | 5.9 | 8 | 3800 |
| ZKLF 1560 2RS | 0.256 | 6.5 | 1.77 | 0.2 | M6–10.9 | 3 | ZM 15 | 7.4 | 10 | 3500 |
| ZKLF 1762 2RS | 0.256 | 6.5 | 2.12 | 0.24 | M6–10.9 | 3 | ZM 17/AM 17 | 11.1 | 15 | 3300 |
| ZKLF 2068 2RS | 0.256 | 6.5 | 2.66 | 0.3 | M6–10.9 | 4 | ZM 20/AM 20 | 13.3 | 18 | 3000 |
| ZKLF 2575 2RS | 0.256 | 6.5 | 3.54 | 0.4 | M6–10.9 | 4 | ZM 25/AM 25 | 18.4 | 25 | 2600 |
| ZKLF 3080 2RS | 0.256 | 6.5 | 4.43 | 0.5 | M6–10.9 | 6 | ZM 30/AM 30 | 23.6 | 32 | 2200 |
| ZKLF 3590 2RS | 0.256 | 8.5 | 5.31 | 0.6 | M8–10.9 | 4 | ZM 35/AM 35 | 29.5 | 40 | 2000 |
| ZKLF 40100 2RS | 0.335 | 8.5 | 6.2 | 0.7 | M8–10.9 | 4 | ZM 40/AM 40 | 40.6 | 55 | 1800 |
| ZKLF 40115 2RS | 0.335 | 8.5 | 11.5 | 1.3 | M8–10.9 | 12 | ZMA 40/65/AM 40 | 81.1 | 110 | 1600 |
| ZKLF 50115 2RS | 0.335 | 8.5 | 7.97 | 0.9 | M8–10.9 | 6 | ZM 50/AM 50 | 62.7 | 85 | 1500 |
| ZKLF 50140 2RS | 0.413 | 10.5 | 23.01 | 2.6 | M10–10.9 | 12 | ZMA 50/75/AM 50 | 110.6 | 150 | 2500 |
| ZKLF 60145 2Z | 0.335 | 8.5 | 8.85 | 1 | M 8–8.8 | 8 | ZMA 60/98 /AM60 | 73.76 | 100 | 2400 |
| ZKLF 70155 2Z | 0.335 | 8.5 | 10.62 | 1.2 | M 8–8.8 | 8 | ZMA 70/110 /AM70 | 95.89 | 130 | 2200 |
| ZKLF 80165 2Z | 0.335 | 8.5 | 12.39 | 1.4 | M 8–8.8 | 8 | ZMA 80/120 | 118.02 | 160 | 2100 |
| ZKLF 90190 2Z | 0.413 | 10.5 | 20.36 | 2.3 | M 10–8.8 | 8 | ZMA 90/130/AM90 | 147.52 | 200 | 1800 |
| ZKLF 100200 2Z | 0.413 | 10.5 | 23.01 | 2.6 | M 10–8.8 | 8 | ZMA 100/140 | 184.4 | 250 | 1700 |

# Angular Contact Thrust Ball Bearings
## DKLFA SERIES

- 3 row design, 60 degree contact angle
- Ball screw support and stretching
- With predrilled mounting flange
- Sealed




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WGT lbs | WGT kg |
|---|---|---|---|---|---|---|---|---|
| DKLFA 1575 2RS | 0.591 | 15 | 1.772 | 45 | 1.260 | 32 | 1.169 | 0.53 |
| DKLFA 2080 2RS | 0.787 | 20 | 2.047 | 52 | 1.378 | 35 | 1.544 | 0.7 |
| DKLFA 2590 2RS | 0.984 | 25 | 2.244 | 57 | 1.496 | 38 | 1.985 | 0.9 |
| DKLFA 30100 2RS | 1.181 | 30 | 2.441 | 62 | 1.496 | 38 | 2.205 | 1 |
| DKLFA 40115 2RS | 1.575 | 40 | 2.835 | 72 | 1.654 | 42 | 3.308 | 1.5 |

**CONTINUED FROM ABOVE**

| PART NUMBER | INBOARD ROWS DYN. CAP. C lbf | INBOARD ROWS DYN. CAP. C N | INBOARD ROWS STAT. CAP. $C_0$ lbf | INBOARD ROWS STAT. CAP. $C_0$ N | OUTBOARD STRETCHING ROWS DYN. CAP. C lbf | OUTBOARD STRETCHING ROWS DYN. CAP. C N | OUTBOARD STRETCHING ROWS STAT. CAP. $C_0$ lbf | OUTBOARD STRETCHING ROWS STAT. CAP. $C_0$ N | SPEED LIMIT GREASE rpm |
|---|---|---|---|---|---|---|---|---|---|
| DKLFA 1575 2RS | 4,000 | 17.9 | 6,300 | 28 | 8,300 | 37 | 18,700 | 83 | 2600 |
| DKLFA 2080 2RS | 5,800 | 26 | 10,600 | 47 | 10,000 | 44.5 | 24,700 | 110 | 2200 |
| DKLFA 2590 2RS | 6,200 | 27.5 | 12,400 | 55 | 11,700 | 52 | 32,500 | 144 | 2000 |
| DKLFA 30100 2RS | 6,500 | 29 | 14,400 | 64 | 12,400 | 55 | 37,000 | 165 | 1800 |
| DKLFA 40115 2RS | 9,700 | 43 | 22,700 | 101 | 16,400 | 73 | 51,000 | 227 | 1500 |

**CONTINUED FROM ABOVE**

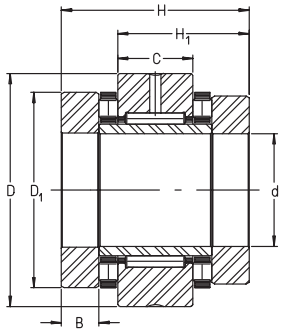
| PART NUMBER | $D_1$ inch | $D_1$ mm | $B_1$ inch | $B_1$ mm | J inch | J mm | $d_2$ inch | $d_2$ mm | m inch | m mm | n inch | n mm | A inch | A mm | THREAD | BOLT QTY. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DKLFA 1575 2RS | 2.953 | 75 | 0.709 | 18 | 2.284 | 58 | 0.268 | 6.8 | 1.976 | 50.2 | 1.142 | 29 | 2.165 | 55 | M6 | 4 |
| DKLFA 2080 2RS | 3.150 | 80 | 0.748 | 19 | 2.480 | 63 | 0.268 | 6.8 | 2.150 | 54.6 | 1.240 | 31.5 | 2.441 | 62 | M6 | 4 |
| DKLFA 2590 2RS | 3.543 | 90 | 0.866 | 22 | 2.953 | 75 | 0.347 | 8.8 | 2.087 | 53 | 2.087 | 53 | 2.756 | 70 | M8 | 6 |
| DKLFA 30100 2RS | 3.937 | 100 | 0.866 | 22 | 3.150 | 80 | 0.347 | 8.8 | 2.228 | 56.6 | 2.228 | 56.6 | 2.835 | 72 | M8 | 6 |
| DKLFA 40115 2RS | 4.528 | 115 | 0.906 | 23 | 3.701 | 94 | 0.347 | 8.8 | 2.618 | 66.5 | 2.618 | 66.5 | 3.543 | 90 | M8 | 6 |

Independent capacity values are given for the ball rows depending on the load direction.

# Ball Screw Support Bearings

## ZARN SERIES

- Combination double direction axial cylindrical roller and radial needle roller bearings
- Metric series
- P4 axial precision

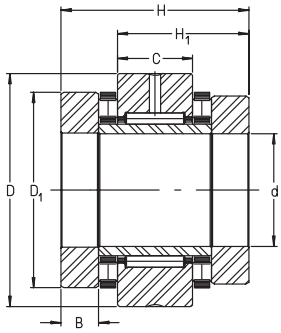



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d mm inch | OD D mm inch | WIDTH H mm inch | WEIGHT kg lbs | DYN. CAP. AXIAL N lbf | STAT. CAP. AXIAL N lbf | DYN. CAP. RADIAL N lbf | STAT. CAP. RADIAL N lbf |
|---|---|---|---|---|---|---|---|---|
| ZARN 1545 TN | 15 | 45 | 40 | 0.34 | 24900 | 53000 | 13000 | 17500 |
| ZARN 1545 TN | 0.5906 | 1.7717 | 1.5748 | 0.7 | 5600 | 11900 | 2900 | 3900 |
| ZARN 1747 TN | 17 | 47 | 43 | 0.37 | 26000 | 57000 | 14000 | 19900 |
| ZARN 1747 TN | 0.6693 | 1.8504 | 1.6929 | 0.8 | 5800 | 12800 | 3100 | 4500 |
| ZARN 2052 TN | 20 | 52 | 46 | 0.41 | 33500 | 76000 | 14900 | 22400 |
| ZARN 2052 TN | 0.7874 | 2.0472 | 1.811 | 0.9 | 7500 | 17100 | 3300 | 5000 |
| ZARN 2062 TN | 20 | 62 | 60 | 0.87 | 64000 | 141000 | 22600 | 36000 |
| ZARN 2062 TN | 0.7874 | 2.4409 | 2.3622 | 1.9 | 14400 | 31700 | 5100 | 8100 |
| ZARN 2572 TN | 25 | 72 | 60 | 1.17 | 80000 | 199000 | 24300 | 41000 |
| ZARN 2572 TN | 0.9843 | 2.8346 | 2.3622 | 2.6 | 18000 | 44700 | 5500 | 9200 |
| ZARN 2557 TN | 25 | 57 | 50 | 0.53 | 35500 | 86000 | 22600 | 36000 |
| ZARN 2557 TN | 0.9843 | 2.2441 | 1.9685 | 1.2 | 8000 | 19300 | 5100 | 8100 |
| ZARN 3080 TN | 30 | 80 | 66 | 1.5 | 107000 | 265000 | 26000 | 47000 |
| ZARN 3080 TN | 1.1811 | 3.1496 | 2.5984 | 3.3 | 24100 | 59600 | 5800 | 10600 |
| ZARN 3062 TN | 30 | 62 | 50 | 0.6 | 39000 | 101000 | 24300 | 41500 |
| ZARN 3062 TN | 1.1811 | 2.4409 | 1.9685 | 1.3 | 8800 | 22700 | 5500 | 9300 |
| ZARN 3585 TN | 35 | 85 | 66 | 1.65 | 105000 | 265000 | 27500 | 53000 |
| ZARN 3585 TN | 1.378 | 3.3465 | 2.5984 | 3.6 | 23600 | 59600 | 6200 | 11900 |
| ZARN 3570 TN | 35 | 70 | 54 | 0.8 | 56000 | 148000 | 26000 | 47000 |
| ZARN 3570 TN | 1.378 | 2.7559 | 2.126 | 1.8 | 12600 | 33300 | 5800 | 10600 |
| ZARN 4090 TN | 40 | 90 | 75 | 2.09 | 117000 | 315000 | 38000 | 74000 |
| ZARN 4090 TN | 1.5748 | 3.5433 | 2.9528 | 4.6 | 26300 | 70800 | 8500 | 16600 |
| ZARN 4075 TN | 40 | 75 | 54 | 0.9 | 59000 | 163000 | 27500 | 53000 |
| ZARN 4075 TN | 1.5748 | 2.9528 | 2.126 | 2 | 13300 | 36600 | 6200 | 11900 |
| ZARN 45105 TN | 45 | 105 | 82 | 3.02 | 154000 | 405000 | 40000 | 82000 |
| ZARN 45105 TN | 1.7717 | 4.1339 | 3.2283 | 6.7 | 34600 | 91100 | 9000 | 18400 |
| ZARN 4580 TN | 45 | 80 | 60 | 1.12 | 61000 | 177000 | 38000 | 74000 |
| ZARN 4580 TN | 1.7717 | 3.1496 | 2.3622 | 2.5 | 13700 | 39800 | 8500 | 16600 |
| ZARN 5090 TN | 50 | 90 | 60 | 1.43 | 90000 | 300000 | 40000 | 82000 |
| ZARN 5090 TN | 1.9685 | 3.5433 | 2.3622 | 3.2 | 20200 | 67400 | 9000 | 18400 |
| ZARN 50110 TN | 50 | 110 | 82 | 3.3 | 172000 | 480000 | 42000 | 90000 |
| ZARN 50110 TN | 1.9685 | 4.3307 | 3.2283 | 7.3 | 38700 | 107900 | 9400 | 20200 |
| ZARN 55115 TN | 55 | 115 | 82 | 3.5 | 177000 | 500000 | 44000 | 98000 |
| ZARN 55115 TN | 2.1654 | 4.5276 | 3.2283 | 7.7 | 39800 | 112400 | 9900 | 22000 |
| ZARN 60120 TN | 60 | 120 | 82 | 3.7 | 187000 | 550000 | 44500 | 92000 |
| ZARN 60120 TN | 2.3622 | 4.7244 | 3.2283 | 8.2 | 42000 | 123700 | 10000 | 20700 |
| ZARN 65125 TN | 65 | 125 | 82 | 4 | 172000 | 500000 | 54000 | 104000 |
| ZARN 65125 TN | 2.5591 | 4.9213 | 3.2283 | 8.8 | 38700 | 112400 | 12100 | 23400 |
| ZARN 70130 TN | 70 | 130 | 82 | 4.1 | 201000 | 630000 | 56000 | 119000 |
| ZARN 70130 TN | 2.7559 | 5.1181 | 3.2283 | 9 | 45200 | 141600 | 12600 | 26800 |
| ZARN 75155 TN | 75 | 155 | 100 | 7.9 | 290000 | 890000 | 72000 | 132000 |
| ZARN 75155 TN | 2.9528 | 6.1024 | 3.937 | 17.4 | 65200 | 200100 | 16200 | 29700 |
| ZARN 90180 TN | 90 | 180 | 110 | 11.6 | 325000 | 1030000 | 98000 | 210000 |
| ZARN 90180 TN | 3.5433 | 7.0866 | 4.3307 | 25.6 | 73100 | 231600 | 22000 | 47200 |

# Ball Screw Support Bearings
## ZARN SERIES

- Combination double direction axial cylindrical roller and radial needle roller bearings
- Metric series
- P4 axial precision



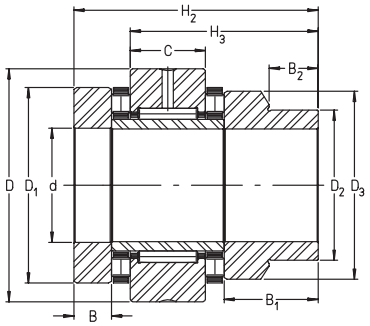

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| $H_1$<br>mm<br>inch | C<br>mm<br>inch | $D_1$<br>mm<br>inch | B<br>mm<br>inch | SPEED LIMIT OIL<br>rpm | SPEED LIMIT GREASE<br>rpm | BEARING FRICTION<br>Nm<br>in-lbf | LOCKNUT TORQUE<br>Nm<br>in-lbf | PART NUMBER |
|---|---|---|---|---|---|---|---|---|
| 28 | 16 | 35 | 7.5 | 8500 | 2200 | 0.35 | 10 | ZARN 1545 TN |
| 1.1024 | 0.6299 | 1.378 | 0.2953 | 8500 | 2200 | 3.1 | 89 | ZARN 1545 TN |
| 29.5 | 16 | 38 | 9 | 7800 | 2100 | 0.4 | 12 | ZARN 1747 TN |
| 1.1614 | 0.6299 | 1.4961 | 0.3543 | 7800 | 2100 | 3.54 | 106 | ZARN 1747 TN |
| 31 | 16 | 42 | 10 | 7000 | 2000 | 0.5 | 18 | ZARN 2052 TN |
| 1.2205 | 0.6299 | 1.6535 | 0.3937 | 7000 | 2000 | 4.43 | 159 | ZARN 2052 TN |
| 40 | 20 | 52 | 12.5 | 6000 | 1500 | 1.3 | 38 | ZARN 2062 TN |
| 1.5748 | 0.7874 | 2.0472 | 0.4921 | 6000 | 1500 | 11.51 | 336 | ZARN 2062 TN |
| 40 | 20 | 62 | 12.5 | 4900 | 1400 | 1.6 | 55 | ZARN 2572 TN |
| 1.5748 | 0.7874 | 2.4409 | 0.4921 | 4900 | 1400 | 14.16 | 487 | ZARN 2572 TN |
| 35 | 20 | 47 | 10 | 6000 | 1900 | 0.55 | 25 | ZARN 2557 TN |
| 1.378 | 0.7874 | 1.8504 | 0.3937 | 6000 | 1900 | 4.87 | 221 | ZARN 2557 TN |
| 43 | 20 | 68 | 14 | 4400 | 1300 | 2.1 | 75 | ZARN 3080 TN |
| 1.6929 | 0.7874 | 2.6772 | 0.5512 | 4400 | 1300 | 18.59 | 664 | ZARN 3080 TN |
| 35 | 20 | 52 | 10 | 5500 | 1800 | 0.65 | 32 | ZARN 3062 TN |
| 1.378 | 0.7874 | 2.0472 | 0.3937 | 5500 | 1800 | 5.75 | 283 | ZARN 3062 TN |
| 43 | 20 | 73 | 14 | 4000 | 1250 | 2.3 | 100 | ZARN 3585 TN |
| 1.6929 | 0.7874 | 2.874 | 0.5512 | 4000 | 1250 | 20.36 | 885 | ZARN 3585 TN |
| 37 | 20 | 60 | 11 | 4800 | 1700 | 0.9 | 42 | ZARN 3570 TN |
| 1.4567 | 0.7874 | 2.3622 | 0.4331 | 4800 | 1700 | 7.97 | 372 | ZARN 3570 TN |
| 50 | 25 | 78 | 16 | 3700 | 1200 | 2.5 | 120 | ZARN 4090 TN |
| 1.9685 | 0.9843 | 3.0709 | 0.6299 | 3700 | 1200 | 22.13 | 1062 | ZARN 4090 TN |
| 37 | 20 | 65 | 11 | 4400 | 1600 | 1 | 55 | ZARN 4075 TN |
| 1.4567 | 0.7874 | 2.5591 | 0.4331 | 4400 | 1600 | 8.85 | 487 | ZARN 4075 TN |
| 53.5 | 25 | 90 | 17.5 | 3300 | 1150 | 3.5 | 150 | ZARN 45105 TN |
| 2.1063 | 0.9843 | 3.5433 | 0.689 | 3300 | 1150 | 30.98 | 1328 | ZARN 45105 TN |
| 42.5 | 25 | 70 | 11.5 | 4000 | 1500 | 1.2 | 65 | ZARN 4580 TN |
| 1.6732 | 0.9843 | 2.7559 | 0.4528 | 4000 | 1500 | 10.62 | 575 | ZARN 4580 TN |
| 42.5 | 25 | 78 | 11.5 | 3600 | 1200 | 2.2 | 85 | ZARN 5090 TN |
| 1.6732 | 0.9843 | 3.0709 | 0.4528 | 3600 | 1200 | 19.47 | 752 | ZARN 5090 TN |
| 53.5 | 25 | 95 | 17.5 | 3100 | 1100 | 3.8 | 180 | ZARN 50110 TN |
| 2.1063 | 0.9843 | 3.7402 | 0.689 | 3100 | 1100 | 33.63 | 1593 | ZARN 50110 TN |
| 53.5 | 25 | 100 | 17.5 | 2900 | 1000 | 4 | 220 | ZARN 55115 TN |
| 2.1063 | 0.9843 | 3.937 | 0.689 | 2900 | 1000 | 35.4 | 1947 | ZARN 55115 TN |
| 53.5 | 25 | 105 | 17.5 | 2700 | 950 | 4.2 | 250 | ZARN 60120 TN |
| 2.1063 | 0.9843 | 4.1339 | 0.689 | 2700 | 950 | 37.17 | 2213 | ZARN 60120 TN |
| 53.5 | 25 | 110 | 17.5 | 2600 | 900 | 3.9 | 270 | ZARN 65125 TN |
| 2.1063 | 0.9843 | 4.3307 | 0.689 | 2600 | 900 | 34.52 | 2390 | ZARN 65125 TN |
| 53.5 | 25 | 115 | 17.5 | 2400 | 800 | 4.8 | 330 | ZARN 70130 TN |
| 2.1063 | 0.9843 | 4.5276 | 0.689 | 2400 | 800 | 42.49 | 2921 | ZARN 70130 TN |
| 65 | 30 | 135 | 21 | 2100 | 700 | 8 | 580 | ZARN 75155 TN |
| 2.5591 | 1.1811 | 5.315 | 0.8268 | 2100 | 700 | 70.81 | 5134 | ZARN 75155 TN |
| 72.5 | 35 | 160 | 22.5 | 1800 | 700 | 10.5 | 960 | ZARN 90180 TN |
| 2.8543 | 1.378 | 6.2992 | 0.8858 | 1800 | 700 | 92.94 | 8497 | ZARN 90180 TN |

# Ball Screw Support Bearings

## ZARN..LTN SERIES

- Combination double direction axial cylindrical roller and radial needle roller bearings
- Extended shaft washer for DIN 3760 series metric seal
- Metric series
- P4 axial precision

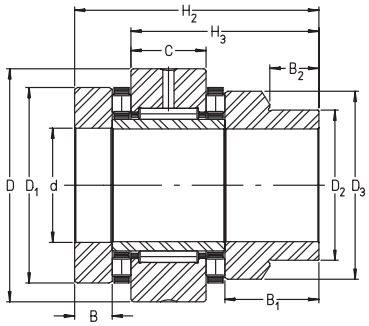



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d mm inch | OD D mm inch | WIDTH $H_2$ mm inch | WEIGHT kg lbs | DYN. CAP. AXIAL N lbf | STAT. CAP. AXIAL N lbf | DYN. CAP. RADIAL N lbf | STAT. CAP. RADIAL N lbf | $H_3$ mm inch | C mm inch |
|---|---|---|---|---|---|---|---|---|---|---|
| ZARN 1545 LTN | 15 | 45 | 53 | 0.37 | 24900 | 53000 | 13000 | 17500 | 41 | 16 |
| ZARN 1545 LTN | 0.5906 | 1.7717 | 2.0866 | 0.82 | 5600 | 11900 | 2920 | 3930 | 1.6142 | 0.6299 |
| ZARN 1747 LTN | 17 | 47 | 57 | 0.41 | 26000 | 57000 | 14000 | 19900 | 43.5 | 16 |
| ZARN 1747 LTN | 0.6693 | 1.8504 | 2.2441 | 0.9 | 5850 | 12800 | 3150 | 4470 | 1.7126 | 0.6299 |
| ZARN 2052 LTN | 20 | 52 | 60 | 0.46 | 33500 | 76000 | 14900 | 22400 | 45 | 16 |
| ZARN 2052 LTN | 0.7874 | 2.0472 | 2.3622 | 1.01 | 7530 | 17100 | 3350 | 5040 | 1.7717 | 0.6299 |
| ZARN 2062 LTN | 20 | 62 | 75 | 0.99 | 64000 | 141000 | 22600 | 36000 | 55 | 20 |
| ZARN 2062 LTN | 0.7874 | 2.4409 | 2.9528 | 2.18 | 14400 | 32000 | 5080 | 8090 | 2.1654 | 0.7874 |
| ZARN 2557 LTN | 25 | 57 | 65 | 0.59 | 35500 | 86000 | 22600 | 36000 | 50 | 20 |
| ZARN 2557 LTN | 0.9843 | 2.2441 | 2.5591 | 1.3 | 8000 | 19000 | 5080 | 8090 | 1.9685 | 0.7874 |
| ZARN 2572 LTN | 25 | 72 | 75 | 1.32 | 80000 | 199000 | 24300 | 41000 | 55 | 20 |
| ZARN 2572 LTN | 0.9843 | 2.8346 | 2.9528 | 2.91 | 18000 | 45000 | 5460 | 9220 | 2.1654 | 0.7874 |
| ZARN 3062 LTN | 30 | 62 | 65 | 0.75 | 39000 | 101000 | 24300 | 41500 | 50 | 20 |
| ZARN 3062 LTN | 1.1811 | 2.4409 | 2.5591 | 1.65 | 8800 | 23000 | 5460 | 9330 | 1.9685 | 0.7874 |
| ZARN 3080 LTN | 30 | 80 | 82 | 1.7 | 107000 | 265000 | 26000 | 47000 | 59 | 20 |
| ZARN 3080 LTN | 1.1811 | 3.1496 | 3.2283 | 3.75 | 24100 | 60000 | 5850 | 10600 | 2.3228 | 0.7874 |
| ZARN 3570 LTN | 35 | 70 | 70 | 0.93 | 56000 | 148000 | 26000 | 47000 | 53 | 20 |
| ZARN 3570 LTN | 1.378 | 2.7559 | 2.7559 | 2.05 | 12600 | 33000 | 5850 | 10600 | 2.0866 | 0.7874 |
| ZARN 3585 LTN | 35 | 85 | 82 | 1.8 | 105000 | 265000 | 27500 | 53000 | 59 | 20 |
| ZARN 3585 LTN | 1.378 | 3.3465 | 3.2283 | 3.97 | 23600 | 60000 | 6180 | 11900 | 2.3228 | 0.7874 |
| ZARN 4075 LTN | 40 | 75 | 70 | 1 | 59000 | 163000 | 27500 | 53000 | 53 | 20 |
| ZARN 4075 LTN | 1.5748 | 2.9528 | 2.7559 | 2.21 | 13300 | 37000 | 6180 | 11900 | 2.0866 | 0.7874 |
| ZARN 4090 LTN | 40 | 90 | 93 | 2.39 | 117000 | 315000 | 38000 | 74000 | 68 | 25 |
| ZARN 4090 LTN | 1.5748 | 3.5433 | 3.6614 | 5.27 | 26300 | 71000 | 8540 | 16600 | 2.6772 | 0.9843 |
| ZARN 4580 LTN | 45 | 80 | 75 | 1.27 | 61000 | 177000 | 38000 | 74000 | 57.5 | 25 |
| ZARN 4580 LTN | 1.7717 | 3.1496 | 2.9528 | 2.8 | 13700 | 40000 | 8540 | 16600 | 2.2638 | 0.9843 |
| ZARN 45105 LTN | 45 | 105 | 103 | 3.42 | 154000 | 405000 | 40000 | 82000 | 74.5 | 25 |
| ZARN 45105 LTN | 1.7717 | 4.1339 | 4.0551 | 7.54 | 35000 | 91000 | 8990 | 18000 | 2.9331 | 0.9843 |
| ZARN 5090 LTN | 50 | 90 | 78 | 1.78 | 90000 | 300000 | 40000 | 82000 | 60.5 | 25 |
| ZARN 5090 LTN | 1.9685 | 3.5433 | 3.0709 | 3.92 | 20000 | 67000 | 8990 | 18000 | 2.3819 | 0.9843 |
| ZARN 50110 LTN | 50 | 110 | 103 | 3.75 | 172000 | 480000 | 42000 | 90000 | 74.5 | 25 |
| ZARN 50110 LTN | 1.9685 | 4.3307 | 4.0551 | 8.27 | 39000 | 108000 | 9440 | 20000 | 2.9331 | 0.9843 |
| ZARN 55115 LTN | 55 | 115 | 103 | 4 | 177000 | 500000 | 44000 | 98000 | 74.5 | 25 |
| ZARN 55115 LTN | 2.1654 | 4.5276 | 4.0551 | 8.82 | 40000 | 112000 | 9890 | 22000 | 2.9331 | 0.9843 |
| ZARN 60120 LTN | 60 | 120 | 103 | 4.85 | 187000 | 550000 | 44500 | 92000 | 74.5 | 25 |
| ZARN 60120 LTN | 2.3622 | 4.7244 | 4.0551 | 10.69 | 42000 | 124000 | 10000 | 21000 | 2.9331 | 0.9843 |
| ZARN 65125 LTN | 65 | 125 | 103 | 4.6 | 172000 | 500000 | 54000 | 104000 | 74.5 | 25 |
| ZARN 65125 LTN | 2.5591 | 4.9213 | 4.0551 | 10.14 | 39000 | 112000 | 12000 | 23000 | 2.9331 | 0.9843 |
| ZARN 70130 LTN | 70 | 130 | 103 | 4.85 | 201000 | 630000 | 56000 | 119000 | 74.5 | 25 |
| ZARN 70130 LTN | 2.7559 | 5.1181 | 4.0551 | 10.69 | 45000 | 142000 | 13000 | 27000 | 2.9331 | 0.9843 |
| ZARN 75155 LTN | 75 | 155 | 125 | 9.1 | 290000 | 890000 | 72000 | 132000 | 90 | 30 |
| ZARN 75155 LTN | 2.9528 | 6.1024 | 4.9213 | 20.07 | 65000 | 200000 | 16000 | 30000 | 3.5433 | 1.1811 |
| ZARN 90180 LTN | 90 | 180 | 135 | 13.05 | 325000 | 1030000 | 98000 | 210000 | 97.5 | 35 |
| ZARN 90180 LTN | 3.5433 | 7.0866 | 5.315 | 28.78 | 73000 | 232000 | 22000 | 47000 | 3.8386 | 1.378 |

# Ball Screw Support Bearings
## ZARN..LTN SERIES

- Combination double direction axial cylindrical roller and radial needle roller bearings
- Extended shaft washer for DIN 3760 series metric seal
- Metric series
- P4 axial precision



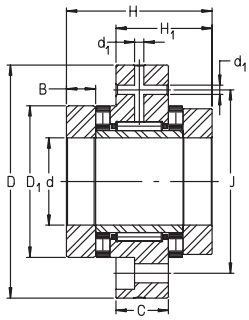

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| $D_1$ mm inch | $D_2$ mm inch | $D_3$ mm inch | B mm inch | $B_1$ mm inch | $B_2$ mm inch | SPEED LIMIT OIL rpm | SPEED LIMIT GREASE rpm | BEARING FRICTION Nm in-lbf | LOCKNUT TORQUE Nm ft-lbf | SEAL SIZE PER DIN3760 | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 35 | 24 | 34 | 7.5 | 20.5 | 11 | 8500 | 2200 | 0.35 | 10 | 24x35x7 | ZARN 1545 LTN |
| 1.378 | 0.9449 | 1.3386 | 0.2953 | 0.8071 | 0.4331 | 8500 | 2200 | 3.1 | 7 | 24x35x7 | ZARN 1545 LTN |
| 38 | 28 | 38 | 9 | 23 | 11 | 7800 | 2100 | 0.4 | 12 | 28x40x7 | ZARN 1747 LTN |
| 1.4961 | 1.1024 | 1.4961 | 0.3543 | 0.9055 | 0.4331 | 7800 | 2100 | 3.5 | 9 | 28x40x7 | ZARN 1747 LTN |
| 42 | 30 | 40 | 10 | 24 | 11 | 7000 | 2000 | 0.5 | 18 | 30x42x7 | ZARN 2052 LTN |
| 1.6535 | 1.1811 | 1.5748 | 0.3937 | 0.9449 | 0.4331 | 7000 | 2000 | 4.4 | 13 | 30x42x7 | ZARN 2052 LTN |
| 52 | 40 | 50 | 12.5 | 27.5 | 11 | 6000 | 1500 | 1.3 | 38 | 40x52x7 | ZARN 2062 LTN |
| 2.0472 | 1.5748 | 1.9685 | 0.4921 | 1.0827 | 0.4331 | 6000 | 1500 | 11.5 | 28 | 40x52x7 | ZARN 2062 LTN |
| 47 | 36 | 45 | 10 | 25 | 11 | 6000 | 1900 | 0.55 | 25 | 36x47x7 | ZARN 2557 LTN |
| 1.8504 | 1.4173 | 1.7717 | 0.3937 | 0.9843 | 0.4331 | 6000 | 1900 | 4.9 | 18 | 36x47x7 | ZARN 2557 LTN |
| 62 | 48 | 60 | 12.5 | 27.5 | 11 | 4900 | 1400 | 1.6 | 55 | 48x62x8 | ZARN 2572 LTN |
| 2.4409 | 1.8898 | 2.3622 | 0.4921 | 1.0827 | 0.4331 | 4900 | 1400 | 14.2 | 41 | 48x62x8 | ZARN 2572 LTN |
| 52 | 40 | 50 | 10 | 25 | 11 | 5500 | 1800 | 0.65 | 32 | 40x52x7 | ZARN 3062 LTN |
| 2.0472 | 1.5748 | 1.9685 | 0.3937 | 0.9843 | 0.4331 | 5500 | 1800 | 5.8 | 24 | 40x52x7 | ZARN 3062 LTN |
| 68 | 52 | 66 | 14 | 30 | 12 | 4400 | 1300 | 2.1 | 75 | 52x68x8 | ZARN 3080 LTN |
| 2.6772 | 2.0472 | 2.5984 | 0.5512 | 1.1811 | 0.4724 | 4400 | 1300 | 18.6 | 55 | 52x68x8 | ZARN 3080 LTN |
| 60 | 45 | 58 | 11 | 27 | 12 | 4800 | 1700 | 0.9 | 42 | 45x60x8 | ZARN 3570 LTN |
| 2.3622 | 1.7717 | 2.2835 | 0.4331 | 1.063 | 0.4724 | 4800 | 1700 | 8 | 31 | 45x60x8 | ZARN 3570 LTN |
| 73 | 60 | 73 | 14 | 30 | 12 | 4000 | 1250 | 2.3 | 100 | 60x75x8 | ZARN 3585 LTN |
| 2.874 | 2.3622 | 2.874 | 0.5512 | 1.1811 | 0.4724 | 4000 | 1250 | 20.4 | 74 | 60x75x8 | ZARN 3585 LTN |
| 65 | 50 | 63 | 11 | 27 | 12 | 4400 | 1600 | 1 | 55 | 50x65x8 | ZARN 4075 LTN |
| 2.5591 | 1.9685 | 2.4803 | 0.4331 | 1.063 | 0.4724 | 4400 | 1600 | 8.9 | 41 | 50x65x8 | ZARN 4075 LTN |
| 78 | 60 | 78 | 16 | 34 | 12 | 3700 | 1200 | 2.5 | 120 | 60x80x8 | ZARN 4090 LTN |
| 3.0709 | 2.3622 | 3.0709 | 0.6299 | 1.3386 | 0.4724 | 3700 | 1200 | 22.1 | 89 | 60x80x8 | ZARN 4090 LTN |
| 70 | 56 | 68 | 11.5 | 26.5 | 12 | 4000 | 1500 | 1.2 | 65 | 56x70x8 | ZARN 4580 LTN |
| 2.7559 | 2.2047 | 2.6772 | 0.4528 | 1.0433 | 0.4724 | 4000 | 1500 | 10.6 | 48 | 56x70x8 | ZARN 4580 LTN |
| 90 | 70 | 88 | 17.5 | 38.5 | 14 | 3300 | 1150 | 3.5 | 150 | 70x90x10 | ZARN 45105 LTN |
| 3.5433 | 2.7559 | 3.4646 | 0.689 | 1.5157 | 0.5512 | 3300 | 1150 | 31 | 111 | 70x90x10 | ZARN 45105 LTN |
| 78 | 60 | 78 | 11.5 | 29.5 | 12 | 3600 | 1200 | 2.2 | 85 | 60x80x8 | ZARN 5090 LTN |
| 3.0709 | 2.3622 | 3.0709 | 0.4528 | 1.1614 | 0.4724 | 3600 | 1200 | 19.5 | 63 | 60x80x8 | ZARN 5090 LTN |
| 95 | 75 | 93 | 17.5 | 38.5 | 14 | 3100 | 1100 | 3.8 | 180 | 75x95x10 | ZARN 50110 LTN |
| 3.7402 | 2.9528 | 3.6614 | 0.689 | 1.5157 | 0.5512 | 3100 | 1100 | 33.6 | 133 | 75x95x10 | ZARN 50110 LTN |
| 100 | 80 | 98 | 17.5 | 38.5 | 14 | 2900 | 1000 | 4 | 220 | 80x100x10 | ZARN 55115 LTN |
| 3.937 | 3.1496 | 3.8583 | 0.689 | 1.5157 | 0.5512 | 2900 | 1000 | 35.4 | 162 | 80x100x10 | ZARN 55115 LTN |
| 105 | 90 | 105 | 17.5 | 38.5 | 16 | 2700 | 950 | 4.2 | 250 | 90x110x12 | ZARN 60120 LTN |
| 4.1339 | 3.5433 | 4.1339 | 0.689 | 1.5157 | 0.6299 | 2700 | 950 | 37.2 | 184 | 90x110x12 | ZARN 60120 LTN |
| 110 | 90 | 108 | 17.5 | 38.5 | 16 | 2600 | 900 | 3.9 | 270 | 90x110x12 | ZARN 65125 LTN |
| 4.3307 | 3.5433 | 4.252 | 0.689 | 1.5157 | 0.6299 | 2600 | 900 | 34.5 | 199 | 90x110x12 | ZARN 65125 LTN |
| 115 | 100 | 115 | 17.5 | 38.5 | 16 | 2400 | 800 | 4.8 | 330 | 100x120x12 | ZARN 70130 LTN |
| 4.5276 | 3.937 | 4.5276 | 0.689 | 1.5157 | 0.6299 | 2400 | 800 | 42.5 | 243 | 100x120x12 | ZARN 70130 LTN |
| 135 | 115 | 135 | 21 | 46 | 16 | 2100 | 700 | 8 | 580 | 115x140x12 | ZARN 75155 LTN |
| 5.315 | 4.5276 | 5.315 | 0.8268 | 1.811 | 0.6299 | 2100 | 700 | 70.8 | 428 | 115x140x12 | ZARN 75155 LTN |
| 160 | 130 | 158 | 22.5 | 47.5 | 16 | 1800 | 700 | 10.5 | 960 | 130x160x12 | ZARN 90180 LTN |
| 6.2992 | 5.1181 | 6.2205 | 0.8858 | 1.8701 | 0.6299 | 1800 | 700 | 92.9 | 708 | 130x160x12 | ZARN 90180 LTN |

# Ball Screw Support Bearings

## ZARF SERIES

- Combination double direction axial cylindrical roller and radial needle roller bearing
- Predrilled mounting flange
- Metric series
- P4 axial precision

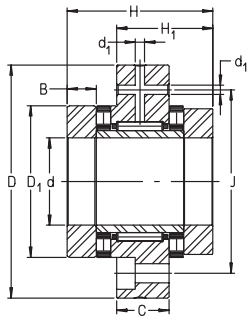



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| PART NUMBER | SHAFT d mm inch | OD D mm inch | WIDTH H mm inch | WEIGHT kg lbs | DYN. CAP. AXIAL N lbf | STAT. CAP. AXIAL N lbf | DYN. CAP. RADIAL N lbf | STAT. CAP. RADIAL N lbf | $H_1$ mm inch | C mm inch | $D_1$ mm inch |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ZARF 1560 TN | 15 | 60 | 40 | 0.42 | 24900 | 53000 | 13000 | 17500 | 26 | 14 | 35 |
| ZARF 1560 TN | 0.5906 | 2.3622 | 1.5748 | 0.926 | 5600 | 11900 | 2900 | 3900 | 1.0236 | 0.5512 | 1.378 |
| ZARF 1762 TN | 17 | 62 | 43 | 0.49 | 26000 | 57000 | 14000 | 19900 | 27.5 | 14 | 38 |
| ZARF 1762 TN | 0.6693 | 2.4409 | 1.6929 | 1.08 | 5800 | 12800 | 3100 | 4500 | 1.0827 | 0.5512 | 1.4961 |
| ZARF 2068 TN | 20 | 68 | 46 | 0.56 | 33500 | 76000 | 14900 | 22400 | 29 | 14 | 42 |
| ZARF 2068 TN | 0.7874 | 2.6772 | 1.811 | 1.235 | 7500 | 17100 | 3300 | 5000 | 1.1417 | 0.5512 | 1.6535 |
| ZARF 2080 TN | 20 | 80 | 60 | 1.1 | 64000 | 141000 | 22600 | 36000 | 38 | 18 | 52 |
| ZARF 2080 TN | 0.7874 | 3.1496 | 2.3622 | 2.426 | 14400 | 31700 | 5100 | 8100 | 1.4961 | 0.7087 | 2.0472 |
| ZARF 2575 TN | 25 | 75 | 50 | 0.78 | 35500 | 86000 | 22600 | 36000 | 33 | 18 | 47 |
| ZARF 2575 TN | 0.9843 | 2.9528 | 1.9685 | 1.72 | 8000 | 19300 | 5100 | 8100 | 1.2992 | 0.7087 | 1.8504 |
| ZARF 2590 TN | 25 | 90 | 60 | 1.6 | 80000 | 199000 | 24300 | 41500 | 38 | 18 | 62 |
| ZARF 2590 TN | 0.9843 | 3.5433 | 2.3622 | 3.528 | 18000 | 44700 | 5500 | 9300 | 1.4961 | 0.7087 | 2.4409 |
| ZARF 3080 TN | 30 | 80 | 50 | 0.85 | 39000 | 101000 | 24300 | 41500 | 33 | 18 | 52 |
| ZARF 3080 TN | 1.1811 | 3.1496 | 1.9685 | 1.874 | 8800 | 22700 | 5500 | 9300 | 1.2992 | 0.7087 | 2.0472 |
| ZARF 3590 TN | 35 | 90 | 54 | 1.12 | 56000 | 148000 | 26000 | 47000 | 35 | 18 | 60 |
| ZARF 3590 TN | 1.378 | 3.5433 | 2.126 | 2.47 | 12600 | 33300 | 5800 | 10600 | 1.378 | 0.7087 | 2.3622 |
| ZARF 30105 TN | 30 | 105 | 66 | 1.95 | 107000 | 265000 | 26000 | 47000 | 41 | 18 | 68 |
| ZARF 30105 TN | 1.1811 | 4.1339 | 2.5984 | 4.3 | 24100 | 59600 | 5800 | 10600 | 1.6142 | 0.7087 | 2.6772 |
| ZARF 35110 TN | 35 | 110 | 66 | 1.6 | 105000 | 265000 | 27500 | 53000 | 41 | 18 | 73 |
| ZARF 35110 TN | 1.378 | 4.3307 | 2.5984 | 3.528 | 23600 | 59600 | 6200 | 11900 | 1.6142 | 0.7087 | 2.874 |
| ZARF 40100 TN | 40 | 100 | 54 | 1.35 | 59000 | 163000 | 27500 | 53000 | 35 | 18 | 65 |
| ZARF 40100 TN | 1.5748 | 3.937 | 2.126 | 2.977 | 13300 | 36600 | 6200 | 11900 | 1.378 | 0.7087 | 2.5591 |
| ZARF 40115 TN | 40 | 115 | 75 | 2.7 | 117000 | 315000 | 38000 | 74000 | 47.5 | 22.5 | 78 |
| ZARF 40115 TN | 1.5748 | 4.5276 | 2.9528 | 5.954 | 26300 | 70800 | 8500 | 16600 | 1.8701 | 0.8858 | 3.0709 |
| ZARF 45105 TN | 45 | 105 | 60 | 1.7 | 61000 | 177000 | 38000 | 74000 | 40 | 22.5 | 70 |
| ZARF 45105 TN | 1.7717 | 4.1339 | 2.3622 | 3.749 | 13700 | 39800 | 8500 | 16600 | 1.5748 | 0.8858 | 2.7559 |
| ZARF 45130 TN | 45 | 130 | 82 | 3.9 | 154000 | 405000 | 40000 | 82000 | 51 | 22.5 | 90 |
| ZARF 45130 TN | 1.7717 | 5.1181 | 3.2283 | 8.6 | 34600 | 91100 | 9000 | 18400 | 2.0079 | 0.8858 | 3.5433 |
| ZARF 50115 TN | 50 | 115 | 60 | 2.1 | 90000 | 300000 | 40000 | 82000 | 40 | 22.5 | 78 |
| ZARF 50115 TN | 1.9685 | 4.5276 | 2.3622 | 4.631 | 20200 | 67400 | 9000 | 18400 | 1.5748 | 0.8858 | 3.0709 |
| ZARF 50140 TN | 50 | 140 | 82 | 4.2 | 172000 | 480000 | 42000 | 90000 | 51 | 22.5 | 95 |
| ZARF 50140 TN | 1.9685 | 5.5118 | 3.2283 | 9.261 | 38700 | 107900 | 9400 | 20200 | 2.0079 | 0.8858 | 3.7402 |
| ZARF 55145 TN | 55 | 145 | 82 | 4.5 | 177000 | 500000 | 44000 | 98000 | 51 | 22.5 | 100 |
| ZARF 55145 TN | 2.1654 | 5.7087 | 3.2283 | 9.923 | 39800 | 112400 | 9900 | 22000 | 2.0079 | 0.8858 | 3.937 |
| ZARF 60150 TN | 60 | 150 | 82 | 4.7 | 187000 | 550000 | 44500 | 92000 | 51 | 22.5 | 105 |
| ZARF 60150 TN | 2.3622 | 5.9055 | 3.2283 | 10.364 | 42000 | 123700 | 10000 | 20700 | 2.0079 | 0.8858 | 4.1339 |
| ZARF 65155 TN | 65 | 155 | 82 | 5.1 | 172000 | 500000 | 54000 | 104000 | 51 | 22.5 | 110 |
| ZARF 65155 TN | 2.5591 | 6.1024 | 3.2283 | 11.246 | 38700 | 112400 | 12100 | 23400 | 2.0079 | 0.8858 | 4.3307 |
| ZARF 70160 TN | 70 | 160 | 82 | 5.2 | 201000 | 630000 | 56000 | 119000 | 51 | 22.5 | 115 |
| ZARF 70160 TN | 2.7559 | 6.2992 | 3.2283 | 11.466 | 45200 | 141600 | 12600 | 26800 | 2.0079 | 0.8858 | 4.5276 |
| ZARF 75185 TN | 75 | 185 | 100 | 9.4 | 290000 | 890000 | 72000 | 132000 | 62 | 27 | 135 |
| ZARF 75185 TN | 2.9528 | 7.2835 | 3.937 | 20.727 | 65200 | 200100 | 16200 | 29700 | 2.4409 | 1.063 | 5.315 |
| ZARF 90210 TN | 90 | 210 | 110 | 13.7 | 300000 | 940000 | 98000 | 210000 | 69.5 | 32 | 160 |
| ZARF 90210 TN | 3.5433 | 8.2677 | 4.3307 | 30.209 | 67400 | 211300 | 22000 | 47200 | 2.7362 | 1.2598 | 6.2992 |

# Ball Screw Support Bearings
## ZARF SERIES

- Combination double direction axial cylindrical roller and radial needle roller bearing
- Predrilled mounting flange
- Metric series
- P4 axial precision



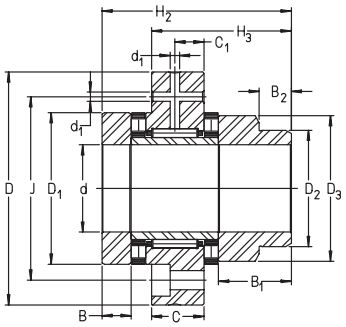

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| B<br>mm<br>inch | $d_1$<br>mm<br>inch | J<br>mm<br>inch | SPEED LIMIT OIL<br>rpm | SPEED LIMIT GREASE<br>rpm | BEARING FRICTION<br>Nm<br>in-lbf | MTG. BOLT | BOLT HOLE QTY | LOCKNUT NUMBER | LOCKNUT TORQUE<br>Nm<br>ft-lbf | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|
| 7.5 | 3.2 | 46 | 8500 | 2200 | 0.35 | M6–10.9 | 6 | ZMA 15/33 | 10 | ZARF 1560 TN |
| 0.2953 | 0.126 | 1.811 | 8500 | 2200 | 3.1 | M6–10.9 | 6 | ZMA 15/33 | 7 | ZARF 1560 TN |
| 9 | 3.2 | 48 | 7800 | 2100 | 0.4 | M6–10.9 | 6 | ZMA 17/38 | 12 | ZARF 1762 TN |
| 0.3543 | 0.126 | 1.8898 | 7800 | 2100 | 3.5 | M6–10.9 | 6 | ZMA 17/38 | 9 | ZARF 1762 TN |
| 10 | 3.2 | 53 | 7000 | 2000 | 0.5 | M6–10.9 | 8 | ZMA 20/38 | 18 | ZARF 2068 TN |
| 0.3937 | 0.126 | 2.0866 | 7000 | 2000 | 4.4 | M6–10.9 | 8 | ZMA 20/38 | 13 | ZARF 2068 TN |
| 12.5 | 3.2 | 63 | 6000 | 1500 | 1.3 | M6–10.9 | 12 | ZMA 20/52 | 38 | ZARF 2080 TN |
| 0.4921 | 0.126 | 2.4803 | 6000 | 1500 | 11.5 | M6–10.9 | 12 | ZMA 20/52 | 28 | ZARF 2080 TN |
| 10 | 3.2 | 58 | 6000 | 1900 | 0.55 | M6–10.9 | 8 | ZMA 25/45 | 25 | ZARF 2575 TN |
| 0.3937 | 0.126 | 2.2835 | 6000 | 1900 | 4.9 | M6–10.9 | 8 | ZMA 25/45 | 18 | ZARF 2575 TN |
| 12.5 | 3.2 | 73 | 4900 | 1400 | 1.6 | M6–10.9 | 12 | ZMA 25/58 | 55 | ZARF 2590 TN |
| 0.4921 | 0.126 | 2.874 | 4900 | 1400 | 14.2 | M6–10.9 | 12 | ZMA 25/58 | 41 | ZARF 2590 TN |
| 10 | 3.2 | 63 | 5500 | 1800 | 0.65 | M6–10.9 | 12 | ZMA 30/52 | 32 | ZARF 3080 TN |
| 0.3937 | 0.126 | 2.4803 | 5500 | 1800 | 5.8 | M6–10.9 | 12 | ZMA 30/52 | 24 | ZARF 3080 TN |
| 11 | 3.2 | 73 | 4800 | 1700 | 0.9 | M6–10.9 | 12 | ZMA 35/58 | 42 | ZARF 3590 TN |
| 0.4331 | 0.126 | 2.874 | 4800 | 1700 | 8 | M6–10.9 | 12 | ZMA 35/58 | 31 | ZARF 3590 TN |
| 14 | 3.2 | 85 | 4400 | 1300 | 2.1 | M8–10.9 | 12 | ZMA 30/65 | 75 | ZARF 30105 TN |
| 0.5512 | 0.126 | 3.3465 | 4400 | 1300 | 18.6 | M8–10.9 | 12 | ZMA 30/65 | 55 | ZARF 30105 TN |
| 14 | 3.2 | 88 | 4000 | 1250 | 2.3 | M8–10.9 | 12 | ZMA 35/70 | 100 | ZARF 35110 TN |
| 0.5512 | 0.126 | 3.4646 | 4000 | 1250 | 20.4 | M8–10.9 | 12 | ZMA 35/70 | 74 | ZARF 35110 TN |
| 11 | 3.2 | 80 | 4400 | 1600 | 1 | M8–10.9 | 8 | ZMA 40/62 | 55 | ZARF 40100 TN |
| 0.4331 | 0.126 | 3.1496 | 4400 | 1600 | 8.9 | M8–10.9 | 8 | ZMA 40/62 | 41 | ZARF 40100 TN |
| 16 | 6 | 94 | 3700 | 1200 | 2.5 | M8–10.9 | 12 | ZMA 40/75 | 120 | ZARF 40115 TN |
| 0.6299 | 0.2362 | 3.7008 | 3700 | 1200 | 22.1 | M8–10.9 | 12 | ZMA 40/75 | 89 | ZARF 40115 TN |
| 11.5 | 6 | 85 | 4000 | 1500 | 1.2 | M8–10.9 | 8 | ZMA 45/68 | 65 | ZARF 45105 TN |
| 0.4528 | 0.2362 | 3.3465 | 4000 | 1500 | 10.6 | M8–10.9 | 8 | ZMA 45/68 | 48 | ZARF 45105 TN |
| 17.5 | 6 | 105 | 3300 | 1150 | 3.5 | M8–10.9 | 12 | ZMA 45/85 | 150 | ZARF 45130 TN |
| 0.689 | 0.2362 | 4.1339 | 3300 | 1150 | 31 | M8–10.9 | 12 | ZMA 45/85 | 111 | ZARF 45130 TN |
| 11.5 | 6 | 94 | 3600 | 1200 | 2.2 | M8–10.9 | 12 | ZMA 50/75 | 85 | ZARF 50115 TN |
| 0.4528 | 0.2362 | 3.7008 | 3600 | 1200 | 19.5 | M8–10.9 | 12 | ZMA 50/75 | 63 | ZARF 50115 TN |
| 17.5 | 6 | 113 | 3100 | 1100 | 3.8 | M10–10.9 | 12 | ZMA 50/92 | 180 | ZARF 50140 TN |
| 0.689 | 0.2362 | 4.4488 | 3100 | 1100 | 33.6 | M10–10.9 | 12 | ZMA 50/92 | 133 | ZARF 50140 TN |
| 17.5 | 6 | 118 | 2900 | 1000 | 4 | M10–10.9 | 12 | ZMA 55/98 | 220 | ZARF 55145 TN |
| 0.689 | 0.2362 | 4.6457 | 2900 | 1000 | 35.4 | M10–10.9 | 12 | ZMA 55/98 | 162 | ZARF 55145 TN |
| 17.5 | 6 | 123 | 2700 | 950 | 4.2 | M10–10.9 | 12 | ZMA 60/98 | 250 | ZARF 60150 TN |
| 0.689 | 0.2362 | 4.8425 | 2700 | 950 | 37.2 | M10–10.9 | 12 | ZMA 60/98 | 184 | ZARF 60150 TN |
| 17.5 | 6 | 128 | 2600 | 900 | 3.9 | M10–10.9 | 12 | ZMA 65/105 | 270 | ZARF 65155 TN |
| 0.689 | 0.2362 | 5.0394 | 2600 | 900 | 34.5 | M10–10.9 | 12 | ZMA 65/105 | 199 | ZARF 65155 TN |
| 17.5 | 6 | 133 | 2400 | 800 | 4.8 | M10–10.9 | 12 | ZMA 70/110 | 330 | ZARF 70160 TN |
| 0.689 | 0.2362 | 5.2362 | 2400 | 800 | 42.5 | M10–10.9 | 12 | ZMA 70/110 | 243 | ZARF 70160 TN |
| 21 | 6 | 155 | 2100 | 700 | 8 | M12–10.9 | 12 | ZMA 75/125 | 580 | ZARF 75185 TN |
| 0.8268 | 0.2362 | 6.1024 | 2100 | 700 | 70.8 | M12–10.9 | 12 | ZMA 75/125 | 428 | ZARF 75185 TN |
| 22.5 | 8 | 180 | 1800 | 700 | 9.5 | M12–10.9 | 16 | ZMA 90/155 | 960 | ZARF 90210 TN |
| 0.8858 | 0.315 | 7.0866 | 1800 | 700 | 84.1 | M12–10.9 | 16 | ZMA 90/155 | 708 | ZARF 90210 TN |

# Ball Screw Support Bearings

## ZARF..LTN SERIES

- Combination double direction axial cylindrical roller and radial needle bearings
- Predrilled mounting flange
- Extended shaft washer for DIN 3760 metric series seal
- Metric series
- P4 axial precision

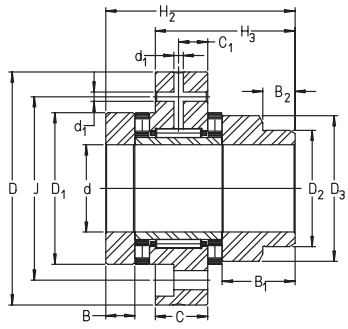



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| PART NUMBER | SHAFT d mm inch | OD D mm inch | WIDTH $H_2$ mm inch | WEIGHT kg lbs | DYN. CAP. AXIAL N lbf | STAT. CAP. AXIAL N lbf | DYN. CAP. RADIAL N lbf | STAT. CAP. RADIAL N lbf | $H_3$ mm inch | C mm inch | $D_1$ mm inch | $D_2$ mm inch | $D_3$ mm inch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZARF 1560 LTN | 15 | 60 | 53 | 0.45 | 24900 | 53000 | 13000 | 17500 | 39 | 14 | 35 | 24 | 34 |
| ZARF 1560 LTN | 0.5906 | 2.3622 | 2.0866 | 0.99 | 5600 | 11900 | 2900 | 3900 | 1.5354 | 0.5512 | 1.378 | 0.9449 | 1.3386 |
| ZARF 1762 LTN | 17 | 62 | 57 | 0.52 | 26000 | 57000 | 14000 | 19900 | 41.5 | 14 | 38 | 28 | 38 |
| ZARF 1762 LTN | 0.6693 | 2.4409 | 2.2441 | 1.15 | 5800 | 12800 | 3100 | 4500 | 1.6339 | 0.5512 | 1.4961 | 1.1024 | 1.4961 |
| ZARF 2068 LTN | 20 | 68 | 60 | 0.61 | 33500 | 76000 | 14900 | 22400 | 43 | 14 | 42 | 30 | 40 |
| ZARF 2068 LTN | 0.7874 | 2.6772 | 2.3622 | 1.35 | 7500 | 17100 | 3300 | 5000 | 1.6929 | 0.5512 | 1.6535 | 1.1811 | 1.5748 |
| ZARF 2080 LTN | 20 | 80 | 75 | 1.22 | 64000 | 141000 | 22600 | 36000 | 53 | 18 | 52 | 40 | 50 |
| ZARF 2080 LTN | 0.7874 | 3.1496 | 2.9528 | 2.69 | 14400 | 31700 | 5100 | 8100 | 2.0866 | 0.7087 | 2.0472 | 1.5748 | 1.9685 |
| ZARF 2575 LTN | 25 | 75 | 65 | 0.84 | 35500 | 86000 | 22600 | 36000 | 48 | 18 | 47 | 36 | 45 |
| ZARF 2575 LTN | 0.9843 | 2.9528 | 2.5591 | 1.85 | 8000 | 19300 | 5100 | 8100 | 1.8898 | 0.7087 | 1.8504 | 1.4173 | 1.7717 |
| ZARF 2590 LTN | 25 | 90 | 75 | 1.75 | 80000 | 199000 | 24300 | 41500 | 53 | 18 | 62 | 48 | 60 |
| ZARF 2590 LTN | 0.9843 | 3.5433 | 2.9528 | 3.86 | 18000 | 44700 | 5500 | 9300 | 2.0866 | 0.7087 | 2.4409 | 1.8898 | 2.3622 |
| ZARF 3080 LTN | 30 | 80 | 65 | 0.9 | 39000 | 101000 | 24300 | 41500 | 48 | 18 | 52 | 40 | 50 |
| ZARF 3080 LTN | 1.1811 | 3.1496 | 2.5591 | 1.98 | 8800 | 22700 | 5500 | 9300 | 1.8898 | 0.7087 | 2.0472 | 1.5748 | 1.9685 |
| ZARF 3590 LTN | 35 | 90 | 70 | 1.25 | 56000 | 148000 | 26000 | 47000 | 51 | 18 | 60 | 45 | 58 |
| ZARF 3590 LTN | 1.378 | 3.5433 | 2.7559 | 2.76 | 12600 | 33300 | 5800 | 10600 | 2.0079 | 0.7087 | 2.3622 | 1.7717 | 2.2835 |
| ZARF 30105 LTN | 30 | 105 | 82 | 2.15 | 107000 | 265000 | 26000 | 47000 | 57 | 18 | 68 | 52 | 66 |
| ZARF 30105 LTN | 1.1811 | 4.1339 | 3.2283 | 4.74 | 24100 | 59600 | 5800 | 10600 | 2.2441 | 0.7087 | 2.6772 | 2.0472 | 2.5984 |
| ZARF 35110 LTN | 35 | 110 | 82 | 1.85 | 105000 | 265000 | 27500 | 53000 | 57 | 18 | 73 | 60 | 73 |
| ZARF 35110 LTN | 1.378 | 4.3307 | 3.2283 | 4.08 | 23600 | 59600 | 6200 | 11900 | 2.2441 | 0.7087 | 2.874 | 2.3622 | 2.874 |
| ZARF 40100 LTN | 40 | 100 | 70 | 1.45 | 59000 | 163000 | 27500 | 53000 | 51 | 18 | 65 | 50 | 63 |
| ZARF 40100 LTN | 1.5748 | 3.937 | 2.7559 | 3.2 | 13300 | 36600 | 6200 | 11900 | 2.0079 | 0.7087 | 2.5591 | 1.9685 | 2.4803 |
| ZARF 40115 LTN | 40 | 115 | 93 | 3 | 117000 | 315000 | 38000 | 74000 | 65.5 | 22.5 | 78 | 60 | 78 |
| ZARF 40115 LTN | 1.5748 | 4.5276 | 3.6614 | 6.62 | 26300 | 70800 | 8500 | 16600 | 2.5787 | 0.8858 | 3.0709 | 2.3622 | 3.0709 |
| ZARF 45105 LTN | 45 | 105 | 75 | 1.85 | 61000 | 177000 | 38000 | 74000 | 55 | 22.5 | 70 | 56 | 68 |
| ZARF 45105 LTN | 1.7717 | 4.1339 | 2.9528 | 4.08 | 13700 | 39800 | 8500 | 16600 | 2.1654 | 0.8858 | 2.7559 | 2.2047 | 2.6772 |
| ZARF 45130 LTN | 45 | 130 | 103 | 4.3 | 154000 | 405000 | 40000 | 82000 | 72 | 22.5 | 90 | 70 | 88 |
| ZARF 45130 LTN | 1.7717 | 5.1181 | 4.0551 | 9.48 | 34600 | 91100 | 9000 | 18400 | 2.8346 | 0.8858 | 3.5433 | 2.7559 | 3.4646 |
| ZARF 50115 LTN | 50 | 115 | 78 | 2.45 | 90000 | 300000 | 40000 | 82000 | 58 | 22.5 | 78 | 60 | 78 |
| ZARF 50115 LTN | 1.9685 | 4.5276 | 3.0709 | 5.4 | 20200 | 67400 | 9000 | 18400 | 2.2835 | 0.8858 | 3.0709 | 2.3622 | 3.0709 |
| ZARF 50140 LTN | 50 | 140 | 103 | 4.65 | 172000 | 480000 | 42000 | 90000 | 72 | 22.5 | 95 | 75 | 93 |
| ZARF 50140 LTN | 1.9685 | 5.5118 | 4.0551 | 10.25 | 38700 | 107900 | 9400 | 20200 | 2.8346 | 0.8858 | 3.7402 | 2.9528 | 3.6614 |
| ZARF 55145 LTN | 55 | 145 | 103 | 5 | 177000 | 500000 | 44000 | 98000 | 72 | 22.5 | 100 | 80 | 98 |
| ZARF 55145 LTN | 2.1654 | 5.7087 | 4.0551 | 11.03 | 39800 | 112400 | 9900 | 22000 | 2.8346 | 0.8858 | 3.937 | 3.1496 | 3.8583 |
| ZARF 60150 LTN | 60 | 150 | 103 | 5.35 | 187000 | 550000 | 44500 | 92000 | 72 | 22.5 | 105 | 90 | 105 |
| ZARF 60150 LTN | 2.3622 | 5.9055 | 4.0551 | 11.8 | 42000 | 123700 | 10000 | 20700 | 2.8346 | 0.8858 | 4.1339 | 3.5433 | 4.1339 |
| ZARF 65155 LTN | 65 | 155 | 103 | 5.7 | 172000 | 500000 | 54000 | 104000 | 72 | 22.5 | 110 | 90 | 108 |
| ZARF 65155 LTN | 2.5591 | 6.1024 | 4.0551 | 12.57 | 38700 | 112400 | 12100 | 23400 | 2.8346 | 0.8858 | 4.3307 | 3.5433 | 4.252 |
| ZARF 70160 LTN | 70 | 160 | 103 | 5.95 | 201000 | 630000 | 56000 | 119000 | 72 | 22.5 | 115 | 100 | 115 |
| ZARF 70160 LTN | 2.7559 | 6.2992 | 4.0551 | 13.12 | 45200 | 141600 | 12600 | 26800 | 2.8346 | 0.8858 | 4.5276 | 3.937 | 4.5276 |
| ZARF 75185 LTN | 75 | 185 | 125 | 10.6 | 290000 | 890000 | 72000 | 132000 | 87 | 27 | 135 | 115 | 135 |
| ZARF 75185 LTN | 2.9528 | 7.2835 | 4.9213 | 23.37 | 65200 | 200100 | 16200 | 29700 | 3.4252 | 1.063 | 5.315 | 4.5276 | 5.315 |
| ZARF 90210 LTN | 90 | 210 | 135 | 15.1 | 325000 | 103000 | 98000 | 210000 | 94.5 | 32 | 160 | 130 | 158 |
| ZARF 90210 LTN | 3.5433 | 8.2677 | 5.315 | 33.3 | 73100 | 23200 | 22000 | 47200 | 3.7205 | 1.2598 | 6.2992 | 5.1181 | 6.2205 |

# Ball Screw Support Bearings
## ZARF..LTN SERIES

- Combination double direction axial cylindrical roller and radial needle bearings
- Predrilled mounting flange
- Extended shaft washer for DIN 3760 metric series seal
- Metric series
- P4 axial precision

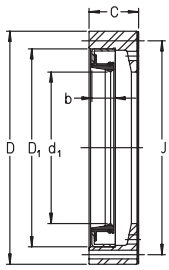



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| B<br>mm<br>inch | $B_1$<br>mm<br>inch | $B_2$<br>mm<br>inch | $d_1$<br>mm<br>inch | J<br>mm<br>inch | SPEED LIMIT OIL<br>rpm | SPEED LIMIT GREASE<br>rpm | MTG. BOLT | BOLT QTY | LOCKNUT NUMBER | LOCKNUT TORQUE<br>Nm<br>ft-lbf | SEAL SIZE DIN3760 | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7.5 | 20.5 | 11 | 3.2 | 46 | 8500 | 2200 | M6–10.9 | 6 | ZMA 15/33 | 10 | 24x35x7 | ZARF 1560 LTN |
| 0.2953 | 0.8071 | 0.4331 | 0.126 | 1.811 | 8500 | 2200 | M6–10.9 | 6 | ZMA 15/33 | 7.4 | 24x35x7 | ZARF 1560 LTN |
| 9 | 23 | 11 | 3.2 | 48 | 8000 | 2100 | M6–10.9 | 6 | ZM 17 | 12 | 28x40x7 | ZARF 1762 LTN |
| 0.3543 | 0.9055 | 0.4331 | 0.126 | 1.8898 | 8000 | 2100 | M6–10.9 | 6 | ZM 17 | 8.9 | 28x40x7 | ZARF 1762 LTN |
| 10 | 24 | 11 | 3.2 | 53 | 7000 | 2000 | M6–10.9 | 8 | ZMA 20/38 | 18 | 30x42x7 | ZARF 2068 LTN |
| 0.3937 | 0.9449 | 0.4331 | 0.126 | 2.0866 | 7000 | 2000 | M6–10.9 | 8 | ZMA 20/38 | 13.3 | 30x42x7 | ZARF 2068 LTN |
| 12.5 | 27.5 | 11 | 3.2 | 63 | 6000 | 1500 | M6–10.9 | 12 | ZMA 20/52 | 38 | 40x52x7 | ZARF 2080 LTN |
| 0.4921 | 1.0827 | 0.4331 | 0.126 | 2.4803 | 6000 | 1500 | M6–10.9 | 12 | ZMA 20/52 | 28 | 40x52x7 | ZARF 2080 LTN |
| 10 | 25 | 11 | 3.2 | 58 | 6000 | 1900 | M6–10.9 | 8 | ZMA 25/45 | 25 | 36x47x7 | ZARF 2575 LTN |
| 0.3937 | 0.9843 | 0.4331 | 0.126 | 2.2835 | 6000 | 1900 | M6–10.9 | 8 | ZMA 25/45 | 18.4 | 36x47x7 | ZARF 2575 LTN |
| 12.5 | 27.5 | 11 | 3.2 | 73 | 4900 | 1400 | M6–10.9 | 12 | ZMA 25/58 | 55 | 48x62x8 | ZARF 2590 LTN |
| 0.4921 | 1.0827 | 0.4331 | 0.126 | 2.874 | 4900 | 1400 | M6–10.9 | 12 | ZMA 25/58 | 40.6 | 48x62x8 | ZARF 2590 LTN |
| 10 | 25 | 11 | 3.2 | 63 | 5500 | 1800 | M6–10.9 | 12 | ZMA 30/52 | 32 | 40x52x7 | ZARF 3080 LTN |
| 0.3937 | 0.9843 | 0.4331 | 0.126 | 2.4803 | 5500 | 1800 | M6–10.9 | 12 | ZMA 30/52 | 23.6 | 40x52x7 | ZARF 3080 LTN |
| 11 | 27 | 12 | 3.2 | 73 | 4800 | 1700 | M6–10.9 | 12 | ZMA 35/58 | 42 | 45x60x8 | ZARF 3590 LTN |
| 0.4331 | 1.063 | 0.4724 | 0.126 | 2.874 | 4800 | 1700 | M6–10.9 | 12 | ZMA 35/58 | 31 | 45x60x8 | ZARF 3590 LTN |
| 14 | 30 | 12 | 3.2 | 85 | 4400 | 1300 | M8–10.9 | 12 | ZMA 30/65 | 75 | 52x68x8 | ZARF 30105 LTN |
| 0.5512 | 1.1811 | 0.4724 | 0.126 | 3.3465 | 4400 | 1300 | M8–10.9 | 12 | ZMA 30/65 | 55.3 | 52x68x8 | ZARF 30105 LTN |
| 14 | 30 | 12 | 3.2 | 88 | 4000 | 1250 | M8–10.9 | 12 | ZMA 35/70 | 100 | 60x75x8 | ZARF 35110 LTN |
| 0.5512 | 1.1811 | 0.4724 | 0.126 | 3.4646 | 4000 | 1250 | M8–10.9 | 12 | ZMA 35/70 | 73.8 | 60x75x8 | ZARF 35110 LTN |
| 11 | 27 | 12 | 3.2 | 80 | 4400 | 1600 | M8–10.9 | 8 | ZMA 40/62 | 55 | 50x65x8 | ZARF 40100 LTN |
| 0.4331 | 1.063 | 0.4724 | 0.126 | 3.1496 | 4400 | 1600 | M8–10.9 | 8 | ZMA 40/62 | 40.6 | 50x65x8 | ZARF 40100 LTN |
| 16 | 34 | 12 | 6 | 94 | 3700 | 1200 | M8–10.9 | 12 | ZMA 40/75 | 120 | 60x80x8 | ZARF 40115 LTN |
| 0.6299 | 1.3386 | 0.4724 | 0.2362 | 3.7008 | 3700 | 1200 | M8–10.9 | 12 | ZMA 40/75 | 88.5 | 60x80x8 | ZARF 40115 LTN |
| 11.5 | 26.5 | 12 | 6 | 85 | 4000 | 1500 | M8–10.9 | 8 | ZMA 45/68 | 65 | 56x70x8 | ZARF 45105 LTN |
| 0.4528 | 1.0433 | 0.4724 | 0.2362 | 3.3465 | 4000 | 1500 | M8–10.9 | 8 | ZMA 45/68 | 47.9 | 56x70x8 | ZARF 45105 LTN |
| 17.5 | 38.5 | 14 | 6 | 105 | 3300 | 1150 | M8–10.9 | 12 | ZMA 45/85 | 150 | 70x90x10 | ZARF 45130 LTN |
| 0.689 | 1.5157 | 0.5512 | 0.2362 | 4.1339 | 3300 | 1150 | M8–10.9 | 12 | ZMA 45/85 | 110.6 | 70x90x10 | ZARF 45130 LTN |
| 11.5 | 29.5 | 12 | 6 | 94 | 3600 | 1200 | M8–10.9 | 12 | ZMA 50/75 | 85 | 60x80x8 | ZARF 50115 LTN |
| 0.4528 | 1.1614 | 0.4724 | 0.2362 | 3.7008 | 3600 | 1200 | M8–10.9 | 12 | ZMA 50/75 | 62.7 | 60x80x8 | ZARF 50115 LTN |
| 17.5 | 38.5 | 14 | 6 | 113 | 3100 | 1100 | M10–10.9 | 12 | ZMA 50/92 | 180 | 75x95x10 | ZARF 50140 LTN |
| 0.689 | 1.5157 | 0.5512 | 0.2362 | 4.4488 | 3100 | 1100 | M10–10.9 | 12 | ZMA 50/92 | 132.8 | 75x95x10 | ZARF 50140 LTN |
| 17.5 | 38.5 | 14 | 6 | 118 | 2900 | 1000 | M10–10.9 | 12 | ZMA 55/98 | 220 | 80x100x10 | ZARF 55145 LTN |
| 0.689 | 1.5157 | 0.5512 | 0.2362 | 4.6457 | 2900 | 1000 | M10–10.9 | 12 | ZMA 55/98 | 162.3 | 80x100x10 | ZARF 55145 LTN |
| 17.5 | 38.5 | 16 | 6 | 123 | 2700 | 950 | M10–10.9 | 12 | ZMA 60/98 | 250 | 90x110x12 | ZARF 60150 LTN |
| 0.689 | 1.5157 | 0.6299 | 0.2362 | 4.8425 | 2700 | 950 | M10–10.9 | 12 | ZMA 60/98 | 184.4 | 90x110x12 | ZARF 60150 LTN |
| 17.5 | 38.5 | 16 | 6 | 128 | 2600 | 900 | M10–10.9 | 12 | ZMA 65/105 | 270 | 90x110x12 | ZARF 65155 LTN |
| 0.689 | 1.5157 | 0.6299 | 0.2362 | 5.0394 | 2600 | 900 | M10–10.9 | 12 | ZMA 65/105 | 199.2 | 90x110x12 | ZARF 65155 LTN |
| 17.5 | 38.5 | 16 | 6 | 133 | 2400 | 800 | M10–10.9 | 12 | ZMA 70/110 | 330 | 100x120x12 | ZARF 70160 LTN |
| 0.689 | 1.5157 | 0.6299 | 0.2362 | 5.2362 | 2400 | 800 | M10–10.9 | 12 | ZMA 70/110 | 243.4 | 100x120x12 | ZARF 70160 LTN |
| 21 | 46 | 16 | 6 | 155 | 2100 | 700 | M12–10.9 | 12 | ZMA 75/125 | 580 | 115x140x12 | ZARF 75185 LTN |
| 0.8268 | 1.811 | 0.6299 | 0.2362 | 6.1024 | 2100 | 700 | M12–10.9 | 12 | ZMA 75/125 | 427.8 | 115x140x12 | ZARF 75185 LTN |
| 22.5 | 47.5 | 16 | 8 | 180 | 1800 | 700 | M12–10.9 | 16 | ZMA 90/155 | 960 | 130x160x12 | ZARF 90210 LTN |
| 0.8858 | 1.8701 | 0.6299 | 0.315 | 7.0866 | 1800 | 700 | M12–10.9 | 16 | ZMA 90/155 | 708.1 | 130x160x12 | ZARF 90210 LTN |

# Seal Carriers & Seals
## DRS SERIES

- Seal rings with mounting hardware for use with series ZARF..TN and ZARF..LTN ball screw support bearings

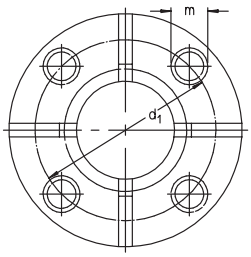


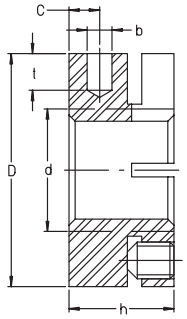

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $d_1$ mm inch | WIDTH C mm inch | OD D mm inch | J mm inch | $D_1$ mm inch | b mm inch | WEIGTH PER PIECE kg lbs | BOLT THREAD DIN 912 | MATING BEARING |
|---|---|---|---|---|---|---|---|---|---|
| DRS 1560 | 35 | 14 | 60 | 52.4 | 45 | 7 | 0.16 | M3x20 | ZARF 1560 TN |
| DRS 1560 | 1.378 | 0.551 | 2.362 | 2.063 | 1.772 | 0.276 | 0.353 | M3x20 | ZARF 1560 TN |
| DRS 1762 | 38 | 15.5 | 62 | 54.4 | 45 | 7 | 0.18 | M3x25 | ZARF 1762 TN |
| DRS 1762 | 1.496 | 0.61 | 2.441 | 2.142 | 1.772 | 0.276 | 0.397 | M3x25 | ZARF 1762 TN |
| DRS 2068 | 42 | 17 | 68 | 60.4 | 55 | 8 | 0.11 | M3x25 | ZARF 2068 TN |
| DRS 2068 | 1.654 | 0.669 | 2.677 | 2.378 | 2.165 | 0.315 | 0.243 | M3x25 | ZARF 2068 TN |
| DRS 2080 | 52 | 22 | 80 | 73.4 | 68 | 8 | 0.2 | M3x30 | ZARF 2080 TN |
| DRS 2080 | 2.047 | 0.866 | 3.15 | 2.89 | 2.677 | 0.315 | 0.441 | M3x30 | ZARF 2080 TN |
| DRS 2575 | 47 | 17 | 75 | 67.4 | 62 | 6 | 0.16 | M3x25 | ZARF 2575 TN |
| DRS 2575 | 1.85 | 0.669 | 2.953 | 2.654 | 2.441 | 0.236 | 0.353 | M3x25 | ZARF 2575 TN |
| DRS 2590 | 62 | 22 | 90 | 81 | 75 | 10 | 0.3 | M3x30 | ZARF 2590 TN |
| DRS 2590 | 2.441 | 0.866 | 3.543 | 3.189 | 2.953 | 0.394 | 0.662 | M3x30 | ZARF 2590 TN |
| DRS 3080 | 52 | 17 | 80 | 73.4 | 68 | 8 | 0.15 | M3x25 | ZARF 3080 TN |
| DRS 3080 | 2.047 | 0.669 | 3.15 | 2.89 | 2.677 | 0.315 | 0.331 | M3x25 | ZARF 3080 TN |
| DRS 30105 | 68 | 25 | 105 | 95 | 85 | 10 | 0.35 | M4x35 | ZARF 30105 TN |
| DRS 30105 | 2.677 | 0.984 | 4.134 | 3.74 | 3.346 | 0.394 | 0.772 | M4x35 | ZARF 30105 TN |
| DRS 3590 | 60 | 19 | 90 | 80 | 72 | 8 | 0.15 | M4x30 | ZARF 3590 TN |
| DRS 3590 | 2.362 | 0.748 | 3.543 | 3.15 | 2.835 | 0.315 | 0.331 | M4x30 | ZARF 3590 TN |
| DRS 35110 | 73 | 25 | 110 | 101 | 95 | 10 | 0.3 | M3x30 | ZARF 35110 TN |
| DRS 35110 | 2.874 | 0.984 | 4.331 | 3.976 | 3.74 | 0.394 | 0.662 | M3x30 | ZARF 35110 TN |
| DRS 40100 | 65 | 19 | 100 | 90 | 80 | 8 | 0.25 | M4x30 | ZARF 40100 TN |
| DRS 40100 | 2.559 | 0.748 | 3.937 | 3.543 | 3.15 | 0.315 | 0.551 | M4x30 | ZARF 40100 TN |
| DRS 40115 | 78 | 27.5 | 115 | 106 | 100 | 10 | 0.5 | M3x35 | ZARF 40115 TN |
| DRS 40115 | 3.071 | 1.083 | 4.528 | 4.173 | 3.937 | 0.394 | 1.103 | M3x35 | ZARF 40115 TN |
| DRS 45105 | 70 | 20 | 105 | 95 | 85 | 8 | 0.3 | M4x30 | ZARF 45105 TN |
| DRS 45105 | 2.756 | 0.787 | 4.134 | 3.74 | 3.346 | 0.315 | 0.662 | M4x30 | ZARF 45105 TN |
| DRS 45130 | 90 | 31 | 130 | 120 | 110 | 12 | 0.7 | M4x40 | ZARF 45130 TN |
| DRS 45130 | 3.543 | 1.22 | 5.118 | 4.724 | 4.331 | 0.472 | 1.544 | M4x40 | ZARF 45130 TN |
| DRS 50115 | 78 | 20 | 115 | 106 | 100 | 10 | 0.2 | M3x30 | ZARF 50115 TN |
| DRS 50115 | 3.071 | 0.787 | 4.528 | 4.173 | 3.937 | 0.394 | 0.441 | M3x30 | ZARF 50115 TN |
| DRS 50140 | 95 | 30 | 140 | 127.5 | 115 | 13 | 0.8 | M5x40 | ZARF 50140 TN |
| DRS 50140 | 3.74 | 1.181 | 5.512 | 5.02 | 4.528 | 0.512 | 1.764 | M5x40 | ZARF 50140 TN |
| DRS 55145 | 100 | 30 | 145 | 132.5 | 120 | 12 | 0.9 | M5x40 | ZARF 55145 TN |
| DRS 55145 | 3.937 | 1.181 | 5.709 | 5.217 | 4.724 | 0.472 | 1.985 | M5x40 | ZARF 55145 TN |
| DRS 60150 | 105 | 30 | 150 | 137.5 | 125 | 12 | 0.9 | M5x40 | ZARF 60150 TN |
| DRS 60150 | 4.134 | 1.181 | 5.906 | 5.413 | 4.921 | 0.472 | 1.985 | M5x40 | ZARF 60150 TN |
| DRS 65155 | 110 | 30 | 155 | 142.5 | 130 | 12 | 1 | M5x40 | ZARF 65155 TN |
| DRS 65155 | 4.331 | 1.181 | 6.102 | 5.61 | 5.118 | 0.472 | 2.205 | M5x40 | ZARF 65155 TN |
| DRS 70160 | 115 | 30 | 160 | 147.5 | 135 | 13 | 1 | M5x40 | ZARF 70160 TN |
| DRS 70160 | 4.528 | 1.181 | 6.299 | 5.807 | 5.315 | 0.512 | 2.205 | M5x40 | ZARF 70160 TN |
| DRS 75185 | 135 | 36 | 185 | 172.5 | 160 | 15 | 1.8 | M5x50 | ZARF 75185 TN |
| DRS 75185 | 5.315 | 1.417 | 7.283 | 6.791 | 6.299 | 0.591 | 3.969 | M5x50 | ZARF 75185 TN |
| DRS 90210 | 160 | 38 | 210 | 194 | 180 | 15 | 2.7 | M5x50 | ZARF 90210 |
| DRS 90210 | 6.299 | 1.496 | 8.268 | 7.638 | 7.087 | 0.591 | 5.954 | M5x50 | ZARF 90210 |

# Locknuts
## AM SERIES

- Axial set screws to prevent loss of preload
- Preloading axial bearings
- Metric series



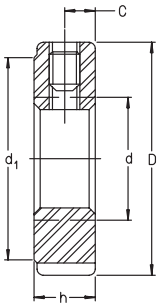




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | d inch | d mm | D inch | D mm | h inch | h mm | WGT lbs | WGT kg | b inch | b mm | t inch | t mm | $d_1$ inch | $d_1$ mm | c inch | c mm | m inch | m mm | FaB lbf | FaB kN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AM 15 | 0.591 | M15 x 1 | 1.181 | 30 | 0.709 | 18 | 0.132 | 0.06 | 0.157 | 4 | 0.197 | 5 | 0.906 | 23 | 0.197 | 5 | 0.157 | M4 | 22900 | 102 |
| AM 17 | 0.669 | M17 x 1 | 1.26 | 32 | 0.709 | 18 | 0.154 | 0.07 | 0.157 | 4 | 0.197 | 5 | 1.024 | 26 | 0.197 | 5 | 0.157 | M4 | 27000 | 120 |
| AM 20 | 0.787 | M20 x 1 | 1.496 | 38 | 0.709 | 18 | 0.287 | 0.13 | 0.157 | 4 | 0.236 | 6 | 1.161 | 29.5 | 0.197 | 5 | 0.236 | M6 | 32600 | 145 |
| AM 25 | 0.984 | M25 x 1.5 | 1.772 | 45 | 0.787 | 20 | 0.353 | 0.16 | 0.197 | 5 | 0.236 | 6 | 1.378 | 35 | 0.236 | 6 | 0.236 | M6 | 46100 | 205 |
| AM 30 | 1.181 | M30 x 1.5 | 2.047 | 52 | 0.787 | 20 | 0.441 | 0.2 | 0.197 | 5 | 0.276 | 7 | 1.575 | 40 | 0.236 | 6 | 0.236 | M6 | 55300 | 246 |
| AM 35 | 1.378 | M35 x 1.5 | 2.559 | 65 | 0.866 | 22 | 0.728 | 0.33 | 0.236 | 6 | 0.315 | 8 | 1.89 | 48 | 0.236 | 6 | 0.236 | M6 | 74000 | 329 |
| AM 40 | 1.575 | M40 x 1.5 | 2.559 | 65 | 0.866 | 22 | 0.662 | 0.3 | 0.236 | 6 | 0.315 | 8 | 2.008 | 51 | 0.236 | 6 | 0.236 | M6 | 78000 | 347 |
| AM 45 | 1.772 | M45 x 1.5 | 2.756 | 70 | 0.866 | 22 | 0.75 | 0.34 | 0.236 | 6 | 0.315 | 8 | 2.205 | 56 | 0.236 | 6 | 0.236 | M6 | 80900 | 360 |
| AM 50 | 1.969 | M50 x 1.5 | 2.953 | 75 | 0.984 | 25 | 0.948 | 0.43 | 0.236 | 6 | 0.315 | 8 | 2.441 | 62 | 0.315 | 8 | 0.236 | M6 | 101200 | 450 |
| AM 60 | 2.362 | M60 x 2 | 3.543 | 90 | 1.024 | 26 | 1.433 | 0.65 | 0.236 | 6 | 0.315 | 8 | 2.953 | 75 | 0.315 | 8 | 0.236 | M6 | 123000 | 547 |

# Locknuts
## ZM SERIES

- Radial set screws to prevent loss of preload
- Preload for axial bearings
- Metric series

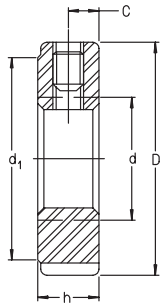



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | d inch | d mm | D inch | D mm | h inch | h mm | WGT lbs | WGT kg | $d_1$ inch | $d_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|
| ZM 06 | 0.2362 | M 6 x 0.5 | 0.63 | 16 | 0.315 | 8 | 0.022 | 0.01 | 0.472 | 12 |
| ZM 08 | 0.315 | M 8 x 0.75 | 0.63 | 16 | 0.315 | 8 | 0.022 | 0.01 | 0.472 | 12 |
| ZM 10 | 0.3937 | M 10 x 1 | 0.709 | 18 | 0.315 | 8 | 0.022 | 0.01 | 0.551 | 14 |
| ZM 12 | 0.4724 | M 12 x 1 | 0.866 | 22 | 0.315 | 8 | 0.033 | 0.015 | 0.709 | 18 |
| ZM 15 | 0.5906 | M 15 x 1 | 0.984 | 25 | 0.315 | 8 | 0.04 | 0.018 | 0.827 | 21 |
| ZMA 15/33 | 0.5906 | M 15 x 1 | 1.299 | 33 | 0.63 | 16 | 0.176 | 0.08 | 1.102 | 28 |
| ZM 17 | 0.6693 | M 17 x 1 | 1.102 | 28 | 0.394 | 10 | 0.062 | 0.028 | 0.906 | 23 |
| ZM 20 | 0.7874 | M 20 x 1 | 1.26 | 32 | 0.394 | 10 | 0.077 | 0.035 | 1.063 | 27 |
| ZMA 20/38 | 0.7874 | M 20 x 1 | 1.496 | 38 | 0.787 | 20 | 0.265 | 0.12 | 1.299 | 33 |
| ZM 25 | 0.9843 | M 25 x 1.5 | 1.496 | 38 | 0.472 | 12 | 0.121 | 0.055 | 1.299 | 33 |
| ZMA 25/45 | 0.9843 | M 25 x 1.5 | 1.772 | 45 | 0.787 | 20 | 0.353 | 0.16 | 1.575 | 40 |
| ZM 30 | 1.1811 | M 30 x 1.5 | 1.772 | 45 | 0.472 | 12 | 0.165 | 0.075 | 1.575 | 40 |
| ZMA 30/52 | 1.1811 | M 30 x 1.5 | 2.047 | 52 | 0.866 | 22 | 0.485 | 0.22 | 1.85 | 47 |
| ZM 35 | 1.378 | M 35 x 1.5 | 2.047 | 52 | 0.472 | 12 | 0.218 | 0.099 | 1.85 | 47 |
| ZMA 35/58 | 1.378 | M 35 x 1.5 | 2.283 | 58 | 0.866 | 22 | 0.573 | 0.26 | 2.047 | 52 |
| ZM 40 | 1.5748 | M 40 x 1.5 | 2.283 | 58 | 0.551 | 14 | 0.309 | 0.14 | 2.047 | 52 |
| ZMA 40/62 | 1.5748 | M 40 x 1.5 | 2.441 | 62 | 0.866 | 22 | 0.595 | 0.27 | 2.205 | 56 |
| ZM 45 | 1.7717 | M 45 x 1.5 | 2.559 | 65 | 0.551 | 14 | 0.375 | 0.17 | 2.323 | 59 |
| ZMA 45/68 | 1.7717 | M 45 x 1.5 | 2.677 | 68 | 0.945 | 24 | 0.772 | 0.35 | 2.441 | 62 |
| ZM 50 | 1.9685 | M 50 x 1.5 | 2.756 | 70 | 0.551 | 14 | 0.419 | 0.19 | 2.52 | 64 |
| ZMA 50/75 | 1.9685 | M 50 x 1.5 | 2.953 | 75 | 0.984 | 25 | 0.948 | 0.43 | 2.677 | 68 |
| ZM 55 | 2.1654 | M 55 x 2 | 2.953 | 75 | 0.63 | 16 | 0.507 | 0.23 | 2.677 | 68 |
| ZMA 55/98 | 2.1654 | M 55 x 2 | 3.858 | 98 | 1.26 | 32 | 2.58 | 1.17 | 3.543 | 90 |
| ZM 60 | 2.3622 | M 60 x 2 | 3.15 | 80 | 0.63 | 16 | 0.551 | 0.25 | 2.874 | 73 |
| ZMA 60/98 | 2.3622 | M 60 x 2 | 3.858 | 98 | 1.26 | 32 | 2.359 | 1.07 | 3.543 | 90 |
| ZM 65 | 2.5591 | M 65 x 2 | 3.346 | 85 | 0.63 | 16 | 0.595 | 0.27 | 3.071 | 78 |
| ZMA 65/105 | 2.5591 | M 65 x 2 | 4.134 | 105 | 1.26 | 32 | 2.668 | 1.21 | 3.819 | 97 |
| ZM 70 | 2.7559 | M 70 x 2 | 3.622 | 92 | 0.709 | 18 | 0.794 | 0.36 | 3.346 | 85 |
| ZMA 70/110 | 2.7559 | M 70 x 2 | 4.331 | 110 | 1.378 | 35 | 3.087 | 1.4 | 4.016 | 102 |
| ZM 75 | 2.9528 | M 75 x 2 | 3.858 | 98 | 0.709 | 18 | 0.882 | 0.4 | 3.543 | 90 |
| ZMA 75/125 | 2.9528 | M 75 x 2 | 4.921 | 125 | 1.496 | 38 | 4.653 | 2.11 | 4.606 | 117 |
| ZM 80 | 3.1496 | M 80 x 2 | 4.134 | 105 | 0.709 | 18 | 1.014 | 0.46 | 3.74 | 95 |
| ZM 85 | 3.3465 | M 85 x 2 | 4.331 | 110 | 0.709 | 18 | 1.08 | 0.49 | 4.016 | 102 |
| ZM 90 | 3.5433 | M 90 x 2 | 4.724 | 120 | 0.787 | 20 | 1.544 | 0.7 | 4.252 | 108 |
| ZMA 90/155 | 3.5433 | M 90 x 2 | 6.102 | 155 | 1.496 | 38 | 7.409 | 3.36 | 5.748 | 146 |
| ZM 100 | 3.937 | M 100 x 2 | 5.118 | 130 | 0.787 | 20 | 1.698 | 0.77 | 4.724 | 120 |
| ZM 105 | 4.1339 | M 105 x 2 | 5.512 | 140 | 0.866 | 22 | 2.315 | 1.05 | 4.961 | 126 |
| ZM 110 | 4.3307 | M 110 x 2 | 5.709 | 145 | 0.866 | 22 | 2.403 | 1.09 | 5.236 | 133 |
| ZM 115 | 4.5276 | M 115 x 2 | 5.906 | 150 | 0.866 | 22 | 2.492 | 1.13 | 5.394 | 137 |
| ZM 120 | 4.7244 | M 120 x 2 | 6.102 | 155 | 0.945 | 24 | 2.822 | 1.28 | 5.433 | 138 |
| ZM 125 | 4.9213 | M 125 x 2 | 6.299 | 160 | 0.945 | 24 | 2.933 | 1.33 | 5.827 | 148 |
| ZM 130 | 5.1181 | M 130 x 2 | 6.496 | 165 | 0.945 | 24 | 2.999 | 1.36 | 5.866 | 149 |
| ZM 140 | 5.5118 | M 140 x 2 | 7.087 | 180 | 1.024 | 26 | 4.079 | 1.85 | 6.299 | 160 |
| ZM 150 | 5.9055 | M 150 x 2 | 7.677 | 195 | 1.024 | 26 | 4.939 | 2.24 | 6.732 | 171 |

# Locknuts
## ZM SERIES

- Radial set screws to prevent loss of preload
- Preload for axial bearings
- Metric series

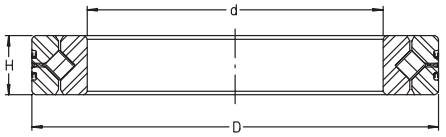



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| c<br>inch | c<br>mm | SET SCREW THREAD | GROOVE WIDTH<br>inch | GROOVE WIDTH<br>mm | GROOVE DEPTH<br>inch | GROOVE DEPTH<br>mm | FRACTURE LOAD<br>lbf | FRACTURE LOAD<br>kN | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|
| 0.157 | 4 | M4 | 0.118 | 3 | 0.079 | 2 | 3800 | 17 | ZM 06 |
| 0.157 | 4 | M4 | 0.118 | 3 | 0.079 | 2 | 5200 | 23 | ZM 08 |
| 0.157 | 4 | M4 | 0.118 | 3 | 0.079 | 2 | 7000 | 31 | ZM 10 |
| 0.157 | 4 | M4 | 0.118 | 3 | 0.079 | 2 | 8500 | 38 | ZM 12 |
| 0.157 | 4 | M4 | 0.118 | 3 | 0.079 | 2 | 11200 | 50 | ZM 15 |
| 0.315 | 8 | M5 | 0.157 | 4 | 0.079 | 2 | 23800 | 106 | ZMA 15/33 |
| 0.197 | 5 | M5 | 0.157 | 4 | 0.079 | 2 | 12800 | 57 | ZM 17 |
| 0.197 | 5 | M5 | 0.157 | 4 | 0.079 | 2 | 15500 | 69 | ZM 20 |
| 0.394 | 10 | M5 | 0.197 | 5 | 0.079 | 2 | 39100 | 174 | ZMA 20/38 |
| 0.236 | 6 | M6 | 0.197 | 5 | 0.079 | 2 | 20200 | 90 | ZM 25 |
| 0.394 | 10 | M6 | 0.197 | 5 | 0.079 | 2 | 47400 | 211 | ZMA 25/45 |
| 0.236 | 6 | M6 | 0.197 | 5 | 0.079 | 2 | 25200 | 112 | ZM 30 |
| 0.433 | 11 | M6 | 0.197 | 5 | 0.079 | 2 | 60700 | 270 | ZMA 30/52 |
| 0.236 | 6 | M6 | 0.197 | 5 | 0.079 | 2 | 30100 | 134 | ZM 35 |
| 0.433 | 11 | M6 | 0.236 | 6 | 0.098 | 2.5 | 67400 | 300 | ZMA 35/58 |
| 0.276 | 7 | M6 | 0.236 | 6 | 0.098 | 2.5 | 35300 | 157 | ZM 40 |
| 0.433 | 11 | M8 | 0.236 | 6 | 0.098 | 2.5 | 69700 | 310 | ZMA 40/62 |
| 0.276 | 7 | M6 | 0.236 | 6 | 0.098 | 2.5 | 40700 | 181 | ZM 45 |
| 0.472 | 12 | M8 | 0.236 | 6 | 0.098 | 2.5 | 80900 | 360 | ZMA 45/68 |
| 0.276 | 7 | M6 | 0.236 | 6 | 0.098 | 2.5 | 46100 | 205 | ZM 50 |
| 0.492 | 12.5 | M8 | 0.236 | 6 | 0.098 | 2.5 | 93300 | 415 | ZMA 50/75 |
| 0.315 | 8 | M6 | 0.276 | 7 | 0.118 | 3 | 51500 | 229 | ZM 55 |
| 0.63 | 16 | M8 | 0.315 | 8 | 0.138 | 3.5 | 139400 | 620 | ZMA 55/98 |
| 0.315 | 8 | M6 | 0.276 | 7 | 0.118 | 3 | 57300 | 255 | ZM 60 |
| 0.63 | 16 | M8 | 0.315 | 8 | 0.138 | 3.5 | 152900 | 680 | ZMA 60/98 |
| 0.315 | 8 | M6 | 0.276 | 7 | 0.118 | 3 | 62900 | 280 | ZM 65 |
| 0.63 | 16 | M8 | 0.315 | 8 | 0.138 | 3.5 | 168600 | 750 | ZMA 65/105 |
| 0.354 | 9 | M8 | 0.315 | 8 | 0.138 | 3.5 | 68600 | 305 | ZM 70 |
| 0.689 | 17.5 | M8 | 0.315 | 8 | 0.138 | 3.5 | 182100 | 810 | ZMA 70/110 |
| 0.354 | 9 | M8 | 0.315 | 8 | 0.138 | 3.5 | 74400 | 331 | ZM 75 |
| 0.748 | 19 | M8 | 0.315 | 8 | 0.138 | 3.5 | 197800 | 880 | ZMA 75/125 |
| 0.354 | 9 | M8 | 0.315 | 8 | 0.138 | 3.5 | 79800 | 355 | ZM 80 |
| 0.354 | 9 | M8 | 0.315 | 8 | 0.138 | 3.5 | 86600 | 385 | ZM 85 |
| 0.394 | 10 | M8 | 0.394 | 10 | 0.157 | 4 | 92200 | 410 | ZM 90 |
| 0.748 | 19 | M8 | 0.394 | 10 | 0.157 | 4 | 242800 | 1080 | ZMA 90/155 |
| 0.394 | 10 | M8 | 0.394 | 10 | 0.157 | 4 | 104500 | 465 | ZM 100 |
| 0.433 | 11 | M10 | 0.472 | 12 | 0.197 | 5 | 111300 | 495 | ZM 105 |
| 0.433 | 11 | M10 | 0.472 | 12 | 0.197 | 5 | 116900 | 520 | ZM 110 |
| 0.433 | 11 | M10 | 0.472 | 12 | 0.197 | 5 | 123700 | 550 | ZM 115 |
| 0.472 | 12 | M10 | 0.472 | 12 | 0.197 | 5 | 130400 | 580 | ZM 120 |
| 0.472 | 12 | M10 | 0.472 | 12 | 0.197 | 5 | 137100 | 610 | ZM 125 |
| 0.472 | 12 | M10 | 0.472 | 12 | 0.197 | 5 | 141600 | 630 | ZM 130 |
| 0.512 | 13 | M12 | 0.551 | 14 | 0.236 | 6 | 155100 | 690 | ZM 140 |
| 0.512 | 13 | M12 | 0.551 | 14 | 0.236 | 6 | 168600 | 750 | ZM 150 |

# Cross Roller Bearings
## SX SERIES

- Cross roller bearings ISO series 18 (same envelope as 618 14 etc.)



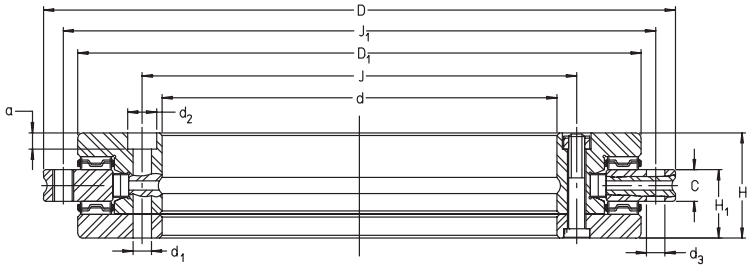

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH H inch | WIDTH H mm | WGT lbs | WGT kg | DYN. CAP. AXIAL lbf | DYN. CAP. AXIAL kN | STAT. CAP. AXIAL lbf | STAT. CAP. AXIAL kN | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SX 01 18 14 | 2.756 | 70 | 3.543 | 90 | 0.394 | 10 | 0.662 | 0.3 | 4,050 | 18 | 13,500 | 60 | 955 |
| SX 01 18 20 | 3.937 | 100 | 4.921 | 125 | 0.512 | 13 | 0.882 | 0.4 | 6,300 | 28 | 23,800 | 106 | 680 |
| SX 01 18 24 | 4.724 | 120 | 5.906 | 150 | 0.630 | 16 | 1.764 | 0.8 | 9,200 | 41 | 34,500 | 153 | 565 |
| SX 01 18 28 | 5.512 | 140 | 6.890 | 175 | 0.709 | 18 | 2.426 | 1.1 | 14,400 | 64 | 53,000 | 237 | 485 |
| SX 01 18 32 | 6.299 | 160 | 7.874 | 200 | 0.787 | 20 | 3.749 | 1.7 | 15,500 | 69 | 61,000 | 272 | 425 |
| SX 01 18 36 | 7.087 | 180 | 8.858 | 225 | 0.866 | 22 | 5.072 | 2.3 | 22,000 | 98 | 86,000 | 381 | 375 |
| SX 01 18 40 | 7.874 | 200 | 9.843 | 250 | 0.945 | 24 | 6.836 | 3.1 | 23,800 | 106 | 96,000 | 425 | 340 |
| SX 01 18 48 | 9.449 | 240 | 11.811 | 300 | 1.102 | 28 | 11.7 | 5.3 | 33,500 | 149 | 138,000 | 612 | 280 |
| SX 01 18 60 | 11.811 | 300 | 14.961 | 380 | 1.496 | 38 | 26.5 | 12 | 55,000 | 245 | 231,000 | 1027 | 558 |
| SX 01 18 68 | 13.386 | 340 | 16.535 | 420 | 1.496 | 38 | 29.8 | 13.5 | 60,000 | 265 | 260,000 | 1148 | 200 |
| SX 01 18 80 | 15.748 | 400 | 19.685 | 500 | 1.811 | 46 | 52.9 | 24 | 87,000 | 385 | 380,000 | 1699 | 170 |
| SX 01 18 /500 | 19.685 | 500 | 24.409 | 620 | 2.205 | 56 | 97.0 | 44 | 126,000 | 560 | 570,000 | 2538 | 135 |

# Axial Radial Bearings for Rotary Tables

## YRT SERIES

- Double direction
- Axially preloaded, radially preloaded
- Predrilled for flange mounting
- P4 precision



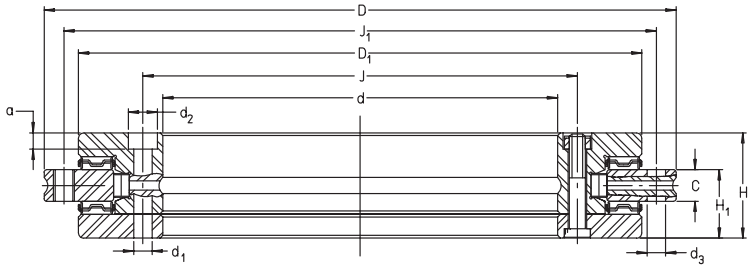

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d | OD D | WIDTH H | DYN. CAP AXIAL | STAT. CAP. AXIAL | DYN. CAP RADIAL | STAT. CAP. RADIAL | $H_1$ | C | $D_1$ | INNER BOLT CIRCLE J | OUTER BOLT CIRCLE $J_1$ | BOLT TORQUE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | mm<br>inch | mm<br>inch | mm<br>inch | kN<br>lbf | kN<br>lbf | kN<br>lbf | kN<br>lbf | mm<br>inch | mm<br>inch | mm<br>inch | mm<br>inch | mm<br>inch | Nm<br>lbf-ft |
| YRT 80 | 80 | 146 | 35 | 38.5 | 158 | 36.5 | 47 | 23.35 | 12 | 130 | 92 | 138 | 8.5 |
| YRT 80 | 3.15 | 5.748 | 1.378 | 8700 | 36000 | 8200 | 10600 | 0.919 | 0.472 | 5.118 | 3.622 | 5.433 | 6.3 |
| YRT 100 | 100 | 185 | 38 | 72 | 370 | 54 | 115 | 25 | 12 | 160 | 112 | 170 | 8.5 |
| YRT 100 | 3.937 | 7.283 | 1.496 | 16000 | 83000 | 12100 | 25900 | 0.984 | 0.472 | 6.299 | 4.409 | 6.693 | 6.3 |
| YRT 120 | 120 | 210 | 40 | 79 | 430 | 70 | 148 | 26 | 12 | 184 | 135 | 195 | 14 |
| YRT 120 | 4.724 | 8.268 | 1.575 | 18000 | 97000 | 15700 | 33000 | 1.024 | 0.472 | 7.244 | 5.315 | 7.677 | 10.3 |
| YRT 150 | 150 | 240 | 40 | 85 | 510 | 77 | 179 | 26 | 12 | 214 | 165 | 225 | 14 |
| YRT 150 | 5.906 | 9.449 | 1.575 | 19000 | 115000 | 17300 | 40000 | 1.024 | 0.472 | 8.425 | 6.496 | 8.858 | 10.3 |
| YRT 180 | 180 | 280 | 43 | 92 | 580 | 83 | 208 | 29 | 15 | 244 | 194 | 260 | 14 |
| YRT 180 | 7.087 | 11.024 | 1.693 | 21000 | 130000 | 18700 | 47000 | 1.142 | 0.591 | 9.606 | 7.638 | 10.236 | 10.3 |
| YRT 200 | 200 | 300 | 45 | 98 | 650 | 88 | 235 | 30 | 15 | 274 | 215 | 285 | 14 |
| YRT 200 | 7.874 | 11.811 | 1.772 | 22000 | 146000 | 20000 | 53000 | 1.181 | 0.591 | 10.787 | 8.465 | 11.22 | 10.3 |
| YRT 260 | 260 | 385 | 55 | 109 | 810 | 101 | 305 | 36.5 | 18 | 345 | 280 | 365 | 34 |
| YRT 260 | 10.236 | 15.157 | 2.165 | 25000 | 182000 | 23000 | 69000 | 1.437 | 0.709 | 13.583 | 11.024 | 14.37 | 25.1 |
| YRT 325 | 325 | 450 | 60 | 186 | 1710 | 133 | 410 | 40 | 20 | 415 | 342 | 430 | 34 |
| YRT 325 | 12.795 | 17.717 | 2.362 | 42000 | 384000 | 30000 | 92000 | 1.575 | 0.787 | 16.339 | 13.465 | 16.929 | 25.1 |
| YRT 395 | 395 | 525 | 65 | 202 | 2010 | 146 | 495 | 42.5 | 20 | 486 | 415 | 505 | 34 |
| YRT 395 | 15.551 | 20.669 | 2.559 | 45000 | 452000 | 33000 | 111000 | 1.673 | 0.787 | 19.134 | 16.339 | 19.882 | 25.1 |
| YRT 460 | 460 | 600 | 70 | 217 | 2300 | 197 | 690 | 46 | 22 | 560 | 482 | 580 | 34 |
| YRT 460 | 18.11 | 23.622 | 2.756 | 49000 | 517000 | 44000 | 155000 | 1.811 | 0.866 | 22.047 | 18.976 | 22.835 | 25.1 |
| YRT 580 | 580 | 750 | 90 | 385 | 3550 | 215 | 830 | 60 | 30 | 700 | 610 | 720 | 68 |
| YRT 580 | 22.835 | 29.528 | 3.543 | 87000 | 798000 | 48000 | 187000 | 2.362 | 1.181 | 27.559 | 24.016 | 28.346 | 50.2 |
| YRT 650 | 650 | 870 | 122 | 495 | 5100 | 415 | 1520 | 78 | 34 | 800 | 680 | 830 | 116 |
| YRT 650 | 25.591 | 34.252 | 4.803 | 111000 | 1147000 | 93000 | 342000 | 3.071 | 1.339 | 31.496 | 26.772 | 32.677 | 85.6 |
| YRT 850 | 850 | 1095 | 124 | 560 | 6500 | 480 | 1990 | 80.5 | 37 | 1018 | 890 | 1055 | 284 |
| YRT 850 | 33.465 | 43.11 | 4.882 | 126000 | 1461000 | 108000 | 447000 | 3.169 | 1.457 | 40.079 | 35.039 | 41.535 | 209.5 |
| YRT 950 | 950 | 1200 | 132 | 1040 | 10300 | 600 | 2480 | 86 | 40 | 1130 | 990 | 1160 | 284 |
| YRT 950 | 37.402 | 47.244 | 5.197 | 234000 | 2316000 | 135000 | 558000 | 3.386 | 1.575 | 44.488 | 38.976 | 45.669 | 209.5 |

# Axial Radial Bearings for Rotary Tables

## YRT SERIES

- Double direction
- Axially preloaded, radially preloaded
- Predrilled for flange mounting
- P4 precision



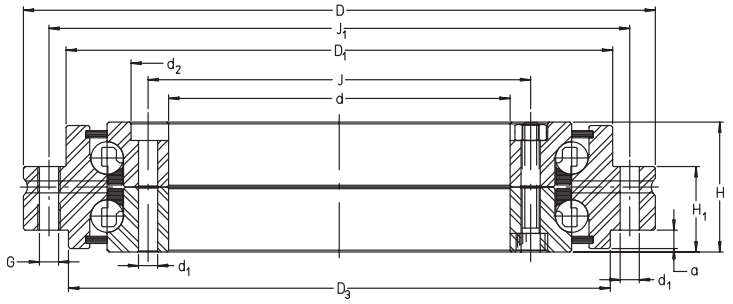

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| a<br>mm<br>inch | d1<br>mm<br>inch | d2<br>mm<br>inch | QTY ⋆ | HOLE SPACING | d3<br>mm<br>inch | QTY ⋆⋆ | REMOVAL THREADS G | QTY | BEARING FRICTIONAL TORQUE<br>Nm<br>lbf-ft | RIGIDITY AXIAL<br>N/µm<br>lbf^6/in | RIGIDITY RADIAL<br>N/µm<br>lbf^6/in | RIGIDITY MOMENT<br>Nm/mrad<br>ftlbf/deg | WGT.<br>kg<br>lbs | SPEED LIMIT GREASE<br>rpm | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4 | 5.6 | 10 | 10 | 30° | 4.6 | 12 | – | – | 3 | 500 | 1800 | 2500 | 2.4 | 350 | YRT 80 |
| 0.157 | 0.22 | 0.394 | 10 | 30° | 0.181 | 12 | – | – | 2.2 | 2.86 | 10.28 | 32200 | 5.29 | 350 | YRT 80 |
| 5.4 | 5.6 | 10 | 16 | 20° | 5.6 | 15 | M5 | 3 | 3 | 800 | 2000 | 5000 | 4.1 | 280 | YRT 100 |
| 0.213 | 0.22 | 0.394 | 16 | 20° | 0.22 | 15 | M5 | 3 | 2.2 | 4.57 | 11.42 | 64400 | 9.04 | 280 | YRT 100 |
| 6.2 | 7 | 11 | 22 | 15° | 7 | 21 | M8 | 3 | 7 | 1000 | 2200 | 7000 | 5.3 | 230 | YRT 120 |
| 0.244 | 0.276 | 0.433 | 22 | 15° | 0.276 | 21 | M8 | 3 | 5.2 | 5.71 | 12.56 | 90100 | 11.69 | 230 | YRT 120 |
| 6.2 | 7 | 11 | 34 | 10° | 7 | 33 | M8 | 3 | 10 | 1500 | 2600 | 11000 | 6.2 | 210 | YRT 150 |
| 0.244 | 0.276 | 0.433 | 34 | 10° | 0.276 | 33 | M8 | 3 | 7.4 | 8.57 | 14.85 | 141600 | 13.67 | 210 | YRT 150 |
| 6.2 | 7 | 11 | 46 | 7.5° | 7 | 45 | M8 | 3 | 12 | 2200 | 3000 | 17000 | 7.7 | 190 | YRT 180 |
| 0.244 | 0.276 | 0.433 | 46 | 7.5° | 0.276 | 45 | M8 | 3 | 8.9 | 12.56 | 17.13 | 218800 | 16.98 | 190 | YRT 180 |
| 6.2 | 7 | 11 | 46 | 7.5° | 7 | 45 | M8 | 3 | 14 | 3000 | 3500 | 23000 | 9.7 | 170 | YRT 200 |
| 0.244 | 0.276 | 0.433 | 46 | 7.5° | 0.276 | 45 | M8 | 3 | 10.3 | 17.13 | 19.99 | 296100 | 21.39 | 170 | YRT 200 |
| 8.2 | 9.3 | 15 | 34 | 10° | 9.3 | 33 | M12 | 3 | 20 | 5500 | 4500 | 45000 | 18.3 | 130 | YRT 260 |
| 0.323 | 0.366 | 0.591 | 34 | 10° | 0.366 | 33 | M12 | 3 | 14.8 | 31.41 | 25.7 | 579300 | 40.35 | 130 | YRT 260 |
| 8.2 | 9.3 | 15 | 34 | 10° | 9.3 | 33 | M12 | 3 | 40 | 8500 | 5000 | 80000 | 25 | 110 | YRT 325 |
| 0.323 | 0.366 | 0.591 | 34 | 10° | 0.366 | 33 | M12 | 3 | 29.5 | 48.54 | 28.55 | 1029800 | 55.13 | 110 | YRT 325 |
| 8.2 | 9.3 | 15 | 46 | 7.5° | 9.3 | 45 | M12 | 3 | 55 | 12500 | 6000 | 130000 | 33 | 90 | YRT 395 |
| 0.323 | 0.366 | 0.591 | 46 | 7.5° | 0.366 | 45 | M12 | 3 | 40.6 | 71.38 | 34.26 | 1673400 | 72.77 | 90 | YRT 395 |
| 8.2 | 9.3 | 15 | 46 | 7.5° | 9.3 | 45 | M12 | 3 | 70 | 18000 | 7000 | 200000 | 45 | 80 | YRT 460 |
| 0.323 | 0.366 | 0.591 | 46 | 7.5° | 0.366 | 45 | M12 | 3 | 51.6 | 102.79 | 39.97 | 2574500 | 99.23 | 80 | YRT 460 |
| 11 | 11.4 | 18 | 46 | 7.5° | 11.4 | 42 | M12 | 6 | 140 | 30000 | 9000 | 380000 | 89 | 60 | YRT 580 |
| 0.433 | 0.449 | 0.709 | 46 | 7.5° | 0.449 | 42 | M12 | 6 | 103.3 | 171.31 | 51.39 | 4891600 | 196.25 | 60 | YRT 580 |
| 13 | 14 | 20 | 46 | 7.5° | 14 | 42 | M12 | 6 | 200 | 45000 | 10000 | 550000 | 170 | 55 | YRT 650 |
| 0.512 | 0.551 | 0.787 | 46 | 7.5° | 0.551 | 42 | M12 | 6 | 147.5 | 256.97 | 57.1 | 7079900 | 374.85 | 55 | YRT 650 |
| 17 | 18 | 26 | 58 | 6° | 18 | 54 | M16 | 6 | 300 | 80000 | 13000 | 1100000 | 253 | 40 | YRT 850 |
| 0.669 | 0.709 | 1.024 | 58 | 6° | 0.709 | 54 | M16 | 6 | 221.3 | 456.83 | 74.24 | 14159800 | 557.87 | 40 | YRT 850 |
| 17 | 18 | 26 | 58 | 6° | 18 | 54 | M16 | 6 | – | 100000 | 14000 | 1500000 | 312 | 40 | YRT 950 |
| 0.669 | 0.709 | 1.024 | 58 | 6° | 0.709 | 54 | M16 | 6 | – | 571.04 | 79.95 | 19308800 | 687.96 | 40 | YRT 950 |

Equal hold spacing includes
⋆ quantity of mounting holes – spacing includes two holes with retaining bolts for shipping
⋆⋆ equal hole spacing is sum of bolt holes and threaded removal holes

# Rotary Table Bearings
## ZKLDF SERIES

- Double direction axial angular contact ball bearings
- 60° contact angle with axial mounting bolt holes
- Bolt pattern matches YRT series
- Metric series




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

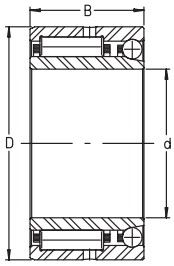
| PART NUMBER | SHAFT d mm inch | OD D mm inch | WIDTH H mm inch | WEIGHT Kg lbs | DYN. CAP. AXIAL N lbf | STAT. CAP. AXIAL N lbf | $H_1$ mm inch | $D_1$ mm inch | D3 mm inch | INNER BOLT CIRCLE DIA. J mm inch | OUTER BOLT CIRCLE DIA. $J_1$ mm inch | HOLE DIA. $d_1$ mm inch |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZKLDF 100 | 100 | 185 | 38 | 4.5 | 51000 | 162000 | 25 | 160 | 158 | 112 | 170 | 5.6 |
| ZKLDF 100 | 3.937 | 7.2835 | 1.496 | 9.9 | 11000 | 36000 | 0.984 | 6.299 | 6.22 | 4.409 | 6.693 | 0.22 |
| ZKLDF 120 | 120 | 210 | 40 | 6 | 61000 | 207000 | 26 | 184 | 181 | 135 | 195 | 7 |
| ZKLDF 120 | 4.7244 | 8.2677 | 1.575 | 13.2 | 14000 | 47000 | 1.024 | 7.244 | 7.126 | 5.315 | 7.677 | 0.276 |
| ZKLDF 150 | 150 | 240 | 40 | 7.5 | 65000 | 247000 | 26 | 214 | 211 | 165 | 225 | 7 |
| ZKLDF 150 | 5.9055 | 9.4488 | 1.575 | 16.5 | 15000 | 56000 | 1.024 | 8.425 | 8.307 | 6.496 | 8.858 | 0.276 |
| ZKLDF 200 | 200 | 300 | 45 | 11 | 87000 | 365000 | 30 | 274 | 271 | 215 | 285 | 7 |
| ZKLDF 200 | 7.874 | 11.811 | 1.772 | 24.3 | 20000 | 82000 | 1.181 | 10.787 | 10.669 | 8.465 | 11.22 | 0.276 |
| ZKLDF 260 | 260 | 385 | 55 | 22 | 115000 | 540000 | 36.5 | 345 | 348 | 280 | 365 | 9.3 |
| ZKLDF 260 | 10.2362 | 15.1575 | 2.165 | 48.5 | 26000 | 121000 | 1.437 | 13.583 | 13.701 | 11.024 | 14.37 | 0.366 |
| ZKLDF 325 | 325 | 450 | 60 | 28 | 138000 | 720000 | 40 | 415 | 413 | 342 | 430 | 9.3 |
| ZKLDF 325 | 12.7953 | 17.7165 | 2.362 | 61.7 | 31000 | 162000 | 1.575 | 16.339 | 16.26 | 13.465 | 16.929 | 0.366 |
| ZKLDF 395 | 395 | 525 | 65 | 39 | 172000 | 960000 | 42.5 | 486 | 488 | 415 | 505 | 9.3 |
| ZKLDF 395 | 15.5512 | 20.6693 | 2.559 | 86 | 39000 | 216000 | 1.673 | 19.134 | 19.213 | 16.339 | 19.882 | 0.366 |
| ZKLDF 460 | 460 | 600 | 70 | 50 | 207000 | 1210000 | 46 | 560 | 563 | 482 | 580 | 9.3 |
| ZKLDF 460 | 18.1102 | 23.622 | 2.756 | 110.3 | 47000 | 272000 | 1.811 | 22.047 | 22.165 | 18.976 | 22.835 | 0.366 |

**CONTINUED FROM ABOVE**

| PART NUMBER | COUNTER BORE DIA. $d_2$ mm inch | a mm inch | HOLE SPACING | QTY. MOUNTING HOLES | QTY. SHIPPING SCREWS | THREADED HOLES G | QTY. THREADED HOLES G | BOLT TORQUE Nm inch-lbf | SPEED LIMIT OIL rpm | SPEED LIMIT GREASE rpm | FRICTION TORQUE Nm inch-lbf |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ZKLDF 100 | 10 | 5.4 | 18X20º | 15 | 3 | M5 | 3 | 8.5 | 2100 | 1400 | 1.6 |
| ZKLDF 100 | 0.394 | 0.213 | 18X20º | 15 | 3 | M5 | 3 | 75.2 | 2100 | 1400 | 14.2 |
| ZKLDF 120 | 11 | 6.2 | 24X15º | 21 | 3 | M8 | 3 | 14 | 1800 | 1200 | 2 |
| ZKLDF 120 | 0.433 | 0.244 | 24X15º | 21 | 3 | M8 | 3 | 123.9 | 1800 | 1200 | 17.7 |
| ZKLDF 150 | 11 | 6.2 | 36X10º | 33 | 3 | M8 | 3 | 14 | 1500 | 1000 | 3 |
| ZKLDF 150 | 0.433 | 0.244 | 36X10º | 33 | 3 | M8 | 3 | 123.9 | 1500 | 1000 | 26.6 |
| ZKLDF 200 | 11 | 6.2 | 48X7.5º | 45 | 3 | M8 | 3 | 14 | 1200 | 800 | 4.5 |
| ZKLDF 200 | 0.433 | 0.244 | 48X7.5º | 45 | 3 | M8 | 3 | 123.9 | 1200 | 800 | 39.8 |
| ZKLDF 260 | 15 | 8.2 | 36X10º | 33 | 3 | M12 | 3 | 34 | 900 | 600 | 7.5 |
| ZKLDF 260 | 0.591 | 0.323 | 36X10º | 33 | 3 | M12 | 3 | 300.9 | 900 | 600 | 66.4 |
| ZKLDF 325 | 15 | 8.2 | 36X10º | 33 | 3 | M12 | 3 | 34 | 750 | 500 | 11 |
| ZKLDF 325 | 0.591 | 0.323 | 36X10º | 33 | 3 | M12 | 3 | 300.9 | 750 | 500 | 97.4 |
| ZKLDF 395 | 15 | 8.2 | 48X7.5º | 45 | 3 | M12 | 3 | 34 | 600 | 400 | 16 |
| ZKLDF 395 | 0.591 | 0.323 | 48X7.5º | 45 | 3 | M12 | 3 | 300.9 | 600 | 400 | 141.6 |
| ZKLDF 460 | 15 | 8.2 | 48X7.5º | 45 | 3 | M12 | 3 | 34 | 525 | 350 | 21 |
| ZKLDF 460 | 0.591 | 0.323 | 48X7.5º | 45 | 3 | M12 | 3 | 300.9 | 525 | 350 | 185.9 |

# Combination Bearings
## NKIA SERIES

- Radial needle roller and single direction axial angular contact ball bearings
- Metric series
- Removeable inner ring

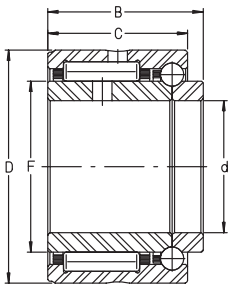



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WGT. lbs | WGT. g | DYN. CAP. RADIAL lbf | DYN. CAP. RADIAL N | STAT. CAP. RADIAL lbf | STAT. CAP. RADIAL N | DYN. CAP. AXIAL lbf | DYN. CAP. AXIAL N | STAT. CAP. AXIAL lbf | STAT. CAP. AXIAL N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NKIA 5901 | 0.472 | 12 | 0.945 | 24 | 0.630 | 16 | 0.088 | 40 | 1,710 | 7600 | 1,870 | 8300 | 485 | 2160 | 510 | 2250 | 24000 |
| NKIA 5902 | 0.591 | 15 | 1.102 | 28 | 0.709 | 18 | 0.11 | 50 | 2,380 | 10600 | 3,050 | 13600 | 530 | 2340 | 620 | 2750 | 22000 |
| NKIA 5903 | 0.669 | 17 | 1.181 | 30 | 0.709 | 18 | 0.123 | 56 | 2,470 | 11000 | 3,300 | 14600 | 560 | 2500 | 720 | 3200 | 21000 |
| NKIA 5904 | 0.787 | 20 | 1.457 | 37 | 0.906 | 23 | 0.227 | 103 | 4,700 | 21000 | 5,700 | 25500 | 890 | 3950 | 1,090 | 4850 | 17000 |
| NKIA 59/22 | 0.866 | 22 | 1.535 | 39 | 0.906 | 23 | 0.26 | 118 | 5,100 | 22800 | 6,600 | 29500 | 960 | 4250 | 1,260 | 5600 | 16000 |
| NKIA 5905 | 0.984 | 25 | 1.654 | 42 | 0.906 | 23 | 0.287 | 130 | 5,300 | 23600 | 7,100 | 31500 | 980 | 4350 | 1,370 | 6100 | 15000 |
| NKIA 5906 | 1.181 | 30 | 1.850 | 47 | 0.906 | 23 | 0.324 | 147 | 5,600 | 25000 | 8,000 | 35500 | 1,070 | 4750 | 1,640 | 7300 | 13000 |
| NKIA 5907 | 1.378 | 35 | 2.165 | 55 | 1.063 | 27 | 0.536 | 243 | 7,100 | 31500 | 11,200 | 50000 | 1,350 | 6000 | 2,200 | 9800 | 11000 |
| NKIA 5908 | 1.575 | 40 | 2.441 | 62 | 1.181 | 30 | 0.695 | 315 | 9,700 | 43000 | 15,100 | 67000 | 1,660 | 7400 | 2,850 | 12700 | 9500 |
| NKIA 5909 | 1.772 | 45 | 2.677 | 68 | 1.181 | 30 | 0.827 | 375 | 10,100 | 45000 | 16,400 | 73000 | 1,730 | 7700 | 3,150 | 14000 | 8500 |
| NKIA 5910 | 1.969 | 50 | 2.835 | 72 | 1.181 | 30 | 0.838 | 380 | 10,600 | 47000 | 18,000 | 80000 | 1,820 | 8100 | 3,600 | 15900 | 8000 |
| NKIA 5911 | 2.165 | 55 | 3.150 | 80 | 1.339 | 34 | 1.213 | 550 | 13,000 | 58000 | 22,500 | 100000 | 2,180 | 9700 | 4,300 | 19200 | 7500 |
| NKIA 5912 | 2.362 | 60 | 3.347 | 85 | 1.339 | 34 | 1.301 | 590 | 13,500 | 60000 | 24,300 | 108000 | 2,250 | 10000 | 4,700 | 20800 | 7000 |
| NKIA 5913 | 2.559 | 65 | 3.543 | 90 | 1.339 | 34 | 1.4 | 635 | 13,700 | 61000 | 25,000 | 112000 | 2,320 | 10300 | 5,000 | 22300 | 6500 |
| NKIA 5914 | 2.756 | 70 | 3.937 | 100 | 1.575 | 40 | 2.161 | 980 | 18,900 | 84000 | 35,000 | 156000 | 3,050 | 13500 | 6,500 | 29000 | 6000 |

# Combination Bearings
## NKIB SERIES

- Radial needle roller and double direction axial angular contact ball bearing
- Metric series
- Removeable inner rings




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

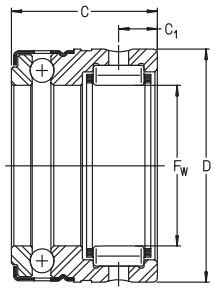
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g |
|---|---|---|---|---|---|---|---|---|---|---|
| NKIB 5901 | 0.472 | 12 | 0.945 | 24 | 0.689 | 17.5 | 0.630 | 16 | 0.095 | 43 |
| NKIB 5902 | 0.591 | 15 | 1.102 | 28 | 0.787 | 20 | 0.709 | 18 | 0.115 | 52 |
| NKIB 5903 | 0.669 | 17 | 1.181 | 30 | 0.787 | 20 | 0.709 | 18 | 0.128 | 58 |
| NKIB 5904 | 0.787 | 20 | 1.457 | 37 | 0.984 | 25 | 0.906 | 23 | 0.236 | 107 |
| NKIB 59/22 | 0.866 | 22 | 1.535 | 39 | 0.984 | 25 | 0.906 | 23 | 0.269 | 122 |
| NKIB 5905 | 0.984 | 25 | 1.654 | 42 | 0.984 | 25 | 0.906 | 23 | 0.295 | 134 |
| NKIB 5906 | 1.181 | 30 | 1.850 | 47 | 0.984 | 25 | 0.906 | 23 | 0.333 | 151 |
| NKIB 5907 | 1.378 | 35 | 2.165 | 55 | 1.181 | 30 | 1.063 | 27 | 0.545 | 247 |
| NKIB 5908 | 1.575 | 40 | 2.441 | 62 | 1.339 | 34 | 1.181 | 30 | 0.706 | 320 |
| NKIB 5909 | 1.772 | 45 | 2.677 | 68 | 1.339 | 34 | 1.181 | 30 | 0.838 | 380 |
| NKIB 5910 | 1.969 | 50 | 2.835 | 72 | 1.339 | 34 | 1.181 | 30 | 0.849 | 385 |
| NKIB 5911 | 2.165 | 55 | 3.150 | 80 | 1.496 | 38 | 1.339 | 34 | 1.224 | 555 |
| NKIB 5912 | 2.362 | 60 | 3.347 | 85 | 1.496 | 38 | 1.339 | 34 | 1.312 | 595 |
| NKIB 5913 | 2.559 | 65 | 3.543 | 90 | 1.496 | 38 | 1.339 | 34 | 1.411 | 640 |
| NKIB 5914 | 2.756 | 70 | 3.937 | 100 | 1.772 | 45 | 1.575 | 40 | 2.172 | 985 |

**CONTINUED FROM ABOVE**

| PART NUMBER | DYN. CAP. RADIAL lbf | DYN. CAP. RADIAL N | STAT. CAP. RADIAL lbf | STAT. CAP. RADIAL N | DYN. CAP. AXIAL lbf | DYN. CAP. AXIAL N | STAT. CAP. AXIAL lbf | STAT. CAP. AXIAL N | SPEED LIMIT rpm |
|---|---|---|---|---|---|---|---|---|---|
| NKIB 5901 | 1,710 | 7600 | 1,870 | 8300 | 485 | 2160 | 510 | 2250 | 24000 |
| NKIB 5902 | 2,380 | 10600 | 3,050 | 13600 | 530 | 2340 | 620 | 2750 | 22000 |
| NKIB 5903 | 2,470 | 11000 | 3,300 | 14600 | 560 | 2500 | 720 | 3200 | 21000 |
| NKIB 5904 | 4,700 | 21000 | 5,700 | 25500 | 890 | 3950 | 1,090 | 4850 | 17000 |
| NKIB 59/22 | 5,100 | 22800 | 6,600 | 29500 | 960 | 4250 | 1,260 | 5600 | 16000 |
| NKIB 5905 | 5,300 | 23600 | 7,100 | 31500 | 980 | 4350 | 1,370 | 6100 | 15000 |
| NKIB 5906 | 5,600 | 25000 | 8,000 | 35500 | 1,070 | 4750 | 1,640 | 7300 | 13000 |
| NKIB 5907 | 7,100 | 31500 | 11,200 | 50000 | 1,350 | 6000 | 2,200 | 9800 | 11000 |
| NKIB 5908 | 9,700 | 43000 | 15,100 | 67000 | 1,660 | 7400 | 2,850 | 12700 | 9500 |
| NKIB 5909 | 10,100 | 45000 | 16,400 | 73000 | 1,730 | 7700 | 3,150 | 14000 | 8500 |
| NKIB 5910 | 10,600 | 47000 | 18,000 | 80000 | 1,820 | 8100 | 3,600 | 15900 | 8000 |
| NKIB 5911 | 13,000 | 58000 | 22,500 | 100000 | 2,180 | 9700 | 4,300 | 19200 | 7500 |
| NKIB 5912 | 13,500 | 60000 | 24,300 | 108000 | 2,250 | 10000 | 4,700 | 20800 | 7000 |
| NKIB 5913 | 13,700 | 61000 | 25,000 | 112000 | 2,320 | 10300 | 5,000 | 22300 | 6500 |
| NKIB 5914 | 18,900 | 84000 | 35,000 | 156000 | 3,050 | 13500 | 6,500 | 29000 | 6000 |

# Combination Bearings
## NX SERIES

- Radial needle roller and axial banded ball bearing
- Metric series




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

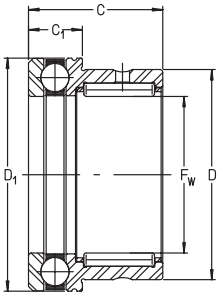
| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g |
|---|---|---|---|---|---|---|---|---|
| NX 7 TN | 0.276 | 7 | 0.551 | 14 | 0.709 | 18 | 0.031 | 14 |
| NX 10 | 0.394 | 10 | 0.748 | 19 | 0.709 | 18 | 0.055 | 25 |
| NX 12 | 0.472 | 12 | 0.827 | 21 | 0.709 | 18 | 0.062 | 28 |
| NX 15 | 0.591 | 15 | 0.945 | 24 | 1.102 | 28 | 0.106 | 48 |
| NX 17 | 0.669 | 17 | 1.024 | 26 | 1.102 | 28 | 0.117 | 53 |
| NX 20 | 0.787 | 20 | 1.181 | 30 | 1.102 | 28 | 0.15 | 68 |
| NX 25 | 0.984 | 25 | 1.457 | 37 | 1.181 | 30 | 0.254 | 115 |
| NX 30 | 1.181 | 30 | 1.654 | 42 | 1.181 | 30 | 0.287 | 130 |
| NX 35 | 1.378 | 35 | 1.850 | 47 | 1.181 | 30 | 0.353 | 160 |

**CONTINUED FROM ABOVE**

| PART NUMBER | DYN. CAP. RADIAL lbf | DYN. CAP. RADIAL N | STAT. CAP. RADIAL lbf | STAT. CAP. RADIAL N | DYN. CAP. AXIAL lbf | DYN. CAP. AXIAL N | STAT. CAP. AXIAL lbf | STAT. CAP. AXIAL N | OIL GROOVE CENTER $C_1$ inch | OIL GROOVE CENTER $C_1$ mm | SPEED LIMIT rpm | CORRECT SNAP RING |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NX 7 TN | 640 | 2850 | 600 | 2650 | 780 | 3450 | 1,030 | 4600 | 0.185 | 4.7 | 15000 | WR 14 |
| NX 10 | 1,000 | 4450 | 830 | 3700 | 1,150 | 5100 | 1,750 | 7800 | 0.185 | 4.7 | 11000 | WR 19 |
| NX 12 | 1,080 | 4800 | 970 | 4300 | 1,190 | 5300 | 2,000 | 8900 | 0.185 | 4.7 | 9500 | WR 21 |
| NX 15 | 2,410 | 10700 | 2,850 | 12700 | 1,370 | 6100 | 2,500 | 11200 | 0.315 | 8 | 8000 | WR 24 |
| NX 17 | 2,700 | 11900 | 3,350 | 15000 | 1,440 | 6400 | 2,800 | 12400 | 0.315 | 8 | 7500 | WR 26 |
| NX 20 | 2,900 | 13000 | 3,950 | 17500 | 1,730 | 7700 | 3,550 | 15800 | 0.315 | 8 | 6500 | WR 30 |
| NX 25 | 3,350 | 14900 | 5,000 | 22400 | 2,750 | 12200 | 5,800 | 26000 | 0.315 | 8 | 4900 | WR 37 |
| NX 30 | 5,100 | 22600 | 8,100 | 36000 | 2,900 | 12800 | 6,700 | 30000 | 0.394 | 10 | 4300 | WR 42 |
| NX 35 | 5,500 | 24300 | 9,300 | 41500 | 3,050 | 13600 | 7,900 | 35000 | 0.394 | 10 | 3700 | WR 47 |

# Combination Bearings
## NKX SERIES

- Radial needle based on RNA49.. series
- Thrust ball based on 511.. series
- Per DIN 5429
- Available with grease retaining cap, suffix Z




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

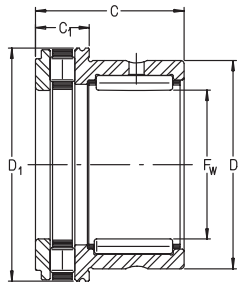
| PART NUMBER | DIN 5429 PART NUMBER | SHAFT Fw inch | SHAFT Fw mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | $D_1$ max inch | $D_1$ max mm | $C_1$ inch | $C_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NKX 10 TN | NAXK 10 TN | 0.394 | 10 | 0.748 | 19 | 0.906 | 23 | 0.075 | 34 | 0.949 | 24.1 | 0.354 | 9 |
| NKX 12 | NAXK 12 | 0.472 | 12 | 0.827 | 21 | 0.906 | 23 | 0.084 | 38 | 1.028 | 26.1 | 0.354 | 9 |
| NKX 15 | NAXK 15 | 0.591 | 15 | 0.945 | 24 | 0.906 | 23 | 0.097 | 44 | 1.106 | 28.1 | 0.354 | 9 |
| NKX 17 | NAXK 17 | 0.669 | 17 | 1.024 | 26 | 0.984 | 25 | 0.117 | 53 | 1.185 | 30.1 | 0.354 | 9 |
| NKX 20 | NAXK 20 | 0.787 | 20 | 1.181 | 30 | 1.181 | 30 | 0.183 | 83 | 1.382 | 35.1 | 0.394 | 10 |
| NKX 25 | NAXK 25 | 0.984 | 25 | 1.457 | 37 | 1.181 | 30 | 0.276 | 125 | 1.658 | 42.1 | 0.433 | 11 |
| NKX 30 | NAXK 30 | 1.181 | 30 | 1.654 | 42 | 1.181 | 30 | 0.311 | 141 | 1.854 | 47.1 | 0.433 | 11 |
| NKX 35 | NAXK 35 | 1.378 | 35 | 1.850 | 47 | 1.181 | 30 | 0.359 | 163 | 2.051 | 52.1 | 0.472 | 12 |
| NKX 40 | NAXK 40 | 1.575 | 40 | 2.047 | 52 | 1.260 | 32 | 0.441 | 200 | 2.366 | 60.1 | 0.512 | 13 |
| NKX 45 | NAXK 45 | 1.772 | 45 | 2.284 | 58 | 1.260 | 32 | 0.556 | 252 | 2.567 | 65.2 | 0.551 | 14 |
| NKX 50 | NAXK 50 | 1.969 | 50 | 2.441 | 62 | 1.378 | 35 | 0.617 | 280 | 2.764 | 70.2 | 0.551 | 14 |
| NKX 60 | NAXK 60 | 2.362 | 60 | 2.835 | 72 | 1.575 | 40 | 0.794 | 360 | 3.354 | 85.2 | 0.669 | 17 |
| NKX 70 | NAXK 70 | 2.756 | 70 | 3.347 | 85 | 1.575 | 40 | 1.103 | 500 | 3.748 | 95.2 | 0.709 | 18 |

**CONTINUED FROM ABOVE**

| PART NUMBER | DIN 5429 PART NUMBER | DYN. CAP. RADIAL lbf | DYN. CAP. RADIAL N | STAT. CAP. RADIAL lbf | STAT. CAP. RADIAL N | DYN. CAP. AXIAL lbf | DYN. CAP. AXIAL N | STAT. CAP. AXIAL lbf | STAT. CAP. AXIAL N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|
| NKX 10 TN | NAXK 10 TN | 1,390 | 6200 | 1,750 | 7800 | 2,250 | 10000 | 3,150 | 14000 | 12000 |
| NKX 12 | NAXK 12 | 2,020 | 9000 | 2,470 | 11000 | 2,320 | 10300 | 3,450 | 15400 | 11000 |
| NKX 15 | NAXK 15 | 2,410 | 10700 | 2,850 | 12700 | 2,360 | 10500 | 3,800 | 16800 | 9500 |
| NKX 17 | NAXK 17 | 2,700 | 11900 | 3,350 | 15000 | 2,430 | 10800 | 4,100 | 18200 | 8500 |
| NKX 20 | NAXK 20 | 3,700 | 16400 | 5,400 | 23800 | 3,200 | 14300 | 5,600 | 24700 | 7500 |
| NKX 25 | NAXK 25 | 4,250 | 18800 | 6,900 | 30500 | 4,400 | 19600 | 8,400 | 37500 | 6000 |
| NKX 30 | NAXK 30 | 5,100 | 22600 | 8,100 | 36000 | 4,600 | 20400 | 9,400 | 42000 | 5000 |
| NKX 35 | NAXK 35 | 5,500 | 24300 | 9,300 | 41500 | 4,750 | 21200 | 10,600 | 47000 | 4600 |
| NKX 40 | NAXK 40 | 5,800 | 26000 | 10,600 | 47000 | 6,100 | 27000 | 14,200 | 63000 | 4000 |
| NKX 45 | NAXK 45 | 6,200 | 27500 | 11,900 | 53000 | 6,300 | 28000 | 15,500 | 69000 | 3600 |
| NKX 50 | NAXK 50 | 8,500 | 38000 | 16,600 | 74000 | 6,500 | 29000 | 16,900 | 75000 | 3300 |
| NKX 60 | NAXK 60 | 9,400 | 42000 | 20,200 | 90000 | 9,300 | 41500 | 25,500 | 113000 | 2800 |
| NKX 70 | NAXK 70 | 10,000 | 44500 | 20,700 | 92000 | 9,700 | 43000 | 28,500 | 127000 | 2400 |

# Combination Bearings
## NKXR SERIES

- Radial needle based on RNA49.. series
- Thrust roller based on 811.. series
- Per DIN 5429
- Available with grease retaining cap, suffix Z




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | DIN 5429 PART NUMBER | SHAFT Fw inch | SHAFT Fw mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WGT. lbs | WGT. g | $D_1$ max inch | $D_1$ max mm | $C_1$ inch | $C_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NKXR 15 | NAXR 15 | 0.591 | 15 | 0.945 | 24 | 0.906 | 23 | 0.093 | 42 | 1.106 | 28.1 | 0.354 | 9 |
| NKXR 17 | NAXR 17 | 0.669 | 17 | 1.024 | 26 | 0.984 | 25 | 0.11 | 50 | 1.185 | 30.1 | 0.354 | 9 |
| NKXR 20 | NAXR 20 | 0.787 | 20 | 1.181 | 30 | 1.181 | 30 | 0.176 | 80 | 1.382 | 35.1 | 0.394 | 10 |
| NKXR 25 | NAXR 25 | 0.984 | 25 | 1.457 | 37 | 1.181 | 30 | 0.265 | 120 | 1.658 | 42.1 | 0.433 | 11 |
| NKXR 30 | NAXR 30 | 1.181 | 30 | 1.654 | 42 | 1.181 | 30 | 0.298 | 135 | 1.854 | 47.1 | 0.433 | 11 |
| NKXR 35 | NAXR 35 | 1.378 | 35 | 1.850 | 47 | 1.181 | 30 | 0.346 | 157 | 2.051 | 52.1 | 0.472 | 12 |
| NKXR 40 | NAXR 40 | 1.575 | 40 | 2.047 | 52 | 1.260 | 32 | 0.45 | 204 | 2.366 | 60.1 | 0.512 | 13 |
| NKXR 45 | NAXR 45 | 1.772 | 45 | 2.284 | 58 | 1.260 | 32 | 0.538 | 244 | 2.567 | 65.2 | 0.551 | 14 |
| NKXR 50 | NAXR 50 | 1.969 | 50 | 2.441 | 62 | 1.378 | 35 | 0.591 | 268 | 2.764 | 70.2 | 0.551 | 14 |

**CONTINUED FROM ABOVE**

| PART NUMBER | DIN 5429 PART NUMBER | DYN. CAP. RADIAL lbf | DYN. CAP. RADIAL N | STAT. CAP. RADIAL lbf | STAT. CAP. RADIAL N | DYN. CAP. AXIAL lbf | DYN. CAP. AXIAL N | STAT. CAP. AXIAL lbf | STAT. CAP. AXIAL N | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|
| NKXR 15 | NAXR 15 | 2,410 | 10700 | 2,850 | 12700 | 3,250 | 14400 | 6,400 | 28500 | 13000 |
| NKXR 17 | NAXR 17 | 2,700 | 11900 | 3,350 | 15000 | 3,600 | 15900 | 7,500 | 33500 | 12000 |
| NKXR 20 | NAXR 20 | 3,700 | 16400 | 5,400 | 23800 | 5,600 | 24900 | 11,900 | 53000 | 10000 |
| NKXR 25 | NAXR 25 | 4,250 | 18800 | 6,900 | 30500 | 7,500 | 33500 | 17,100 | 76000 | 8500 |
| NKXR 30 | NAXR 30 | 5,100 | 22600 | 8,100 | 36000 | 8,000 | 35500 | 19,300 | 86000 | 7500 |
| NKXR 35 | NAXR 35 | 5,500 | 24300 | 9,300 | 41500 | 8,800 | 39000 | 22,700 | 101000 | 6500 |
| NKXR 40 | NAXR 40 | 5,800 | 26000 | 10,600 | 47000 | 12,600 | 56000 | 33,500 | 148000 | 6000 |
| NKXR 45 | NAXR 45 | 6,200 | 27500 | 11,900 | 53000 | 13,300 | 59000 | 36,500 | 163000 | 5000 |
| NKXR 50 | NAXR 50 | 8,500 | 38000 | 16,600 | 74000 | 13,700 | 61000 | 40,000 | 177000 | 4800 |

# NOTES

# Section Contents
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## PRODUCT DESCRIPTION

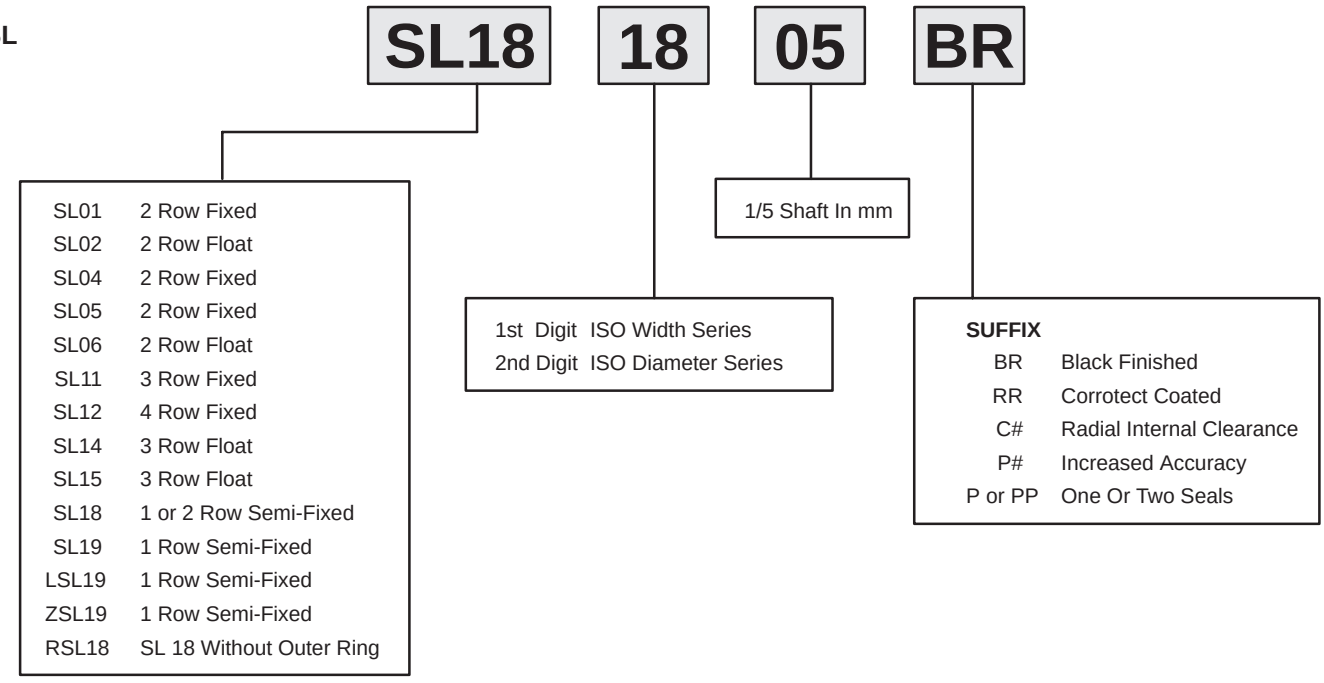
### INA Cylindrical Roller Bearings

- Metric full complement designs for maximum capacity
- Available in various ISO cross sections and design configurations including SL04 for sheaves with integral seals and snap ring grooves
- Available as fixed, float and semi–fixed designs with 1 to 5 row of rollers
- Available without outer ring for use in hardened housings or gear bores to maximize capacity and life
- Available with a disk or spacer element separator for maximum capacity and minimal friction, designed to eliminate retainer drag of traditional retainer designs
- Available with spherical OD and mating cast iron pillow blocks for static self aligning designs

# Part Number Identification
## CYLINDRICAL ROLLER BEARINGS

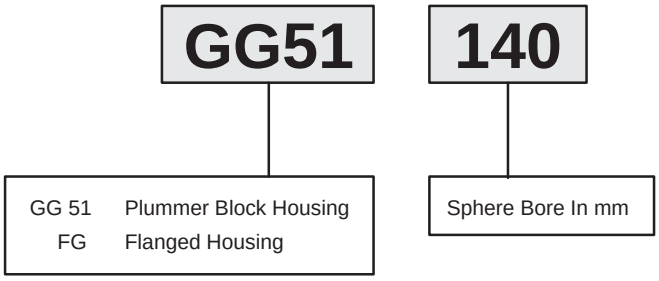
### CYLINDRICAL ROLLER BEARING METRIC SERIES

**SL**



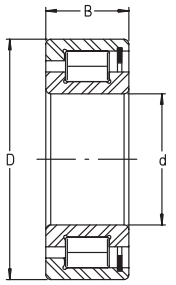

### BEARING HOUSINGS FOR ALIGNING CYLINDRICAL ROLLER BEARINGS METRIC SERIES

**GG, FG**

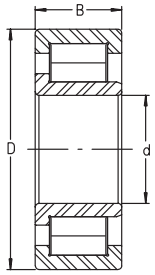


# Cylindrical Roller Bearings
## SL18 18, SL18 22, SL18 29, SL18 30 &
## SL19 SERIES

- Metric series
- Single row
- Semi-locating
- SL18 – Double Flanged Inner Rings
- SL19 – Double Flanged Outer Rings



SL18



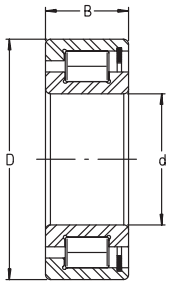
SL19

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

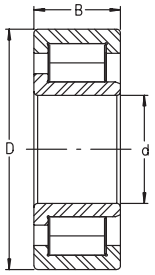
| PART NUMBER | SHAFT d inch | SHAFT d mm | OUTER RING OD D inch | OUTER RING OD D mm | BEARING WIDTH B inch | BEARING WIDTH B mm | WEIGHT PER PIECE lbs | WEIGHT PER PIECE kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL18 3004 | 0.787 | 20 | 1.654 | 42 | 0.630 | 16 | 0.243 | 0.11 | 6,200 | 27.5 | 6,000 | 26.5 | 10000 |
| SL18 2204 | 0.787 | 20 | 1.850 | 47 | 0.709 | 18 | 0.353 | 0.16 | 9,200 | 41 | 8,400 | 37.5 | 9500 |
| SL18 3005 | 0.984 | 25 | 1.850 | 47 | 0.630 | 16 | 0.265 | 0.12 | 7,100 | 31.5 | 7,300 | 32.5 | 9000 |
| SL18 2205 | 0.984 | 25 | 2.047 | 52 | 0.709 | 18 | 0.397 | 0.18 | 10,300 | 46 | 10,100 | 45 | 8500 |
| SL19 2305 | 0.984 | 25 | 2.441 | 62 | 0.945 | 24 | 0.816 | 0.37 | 14,200 | 63 | 12,800 | 57 | 7500 |
| SL18 3006 | 1.181 | 30 | 2.165 | 55 | 0.748 | 19 | 0.441 | 0.2 | 9,100 | 40.5 | 9,700 | 43 | 7500 |
| SL18 2206 | 1.181 | 30 | 2.441 | 62 | 0.787 | 20 | 0.662 | 0.3 | 13,700 | 61 | 14,200 | 63 | 7000 |
| SL19 2306 | 1.181 | 30 | 2.835 | 72 | 1.063 | 27 | 1.235 | 0.56 | 19,600 | 87 | 19,100 | 85 | 6500 |
| SL18 3007 | 1.378 | 35 | 2.441 | 62 | 0.787 | 20 | 0.573 | 0.26 | 11,100 | 49.5 | 12,400 | 55 | 6500 |
| SL18 2207 | 1.378 | 35 | 2.835 | 72 | 0.906 | 23 | 0.97 | 0.44 | 17,100 | 76 | 17,300 | 77 | 6000 |
| SL19 2307 | 1.378 | 35 | 3.150 | 80 | 1.221 | 31 | 1.632 | 0.74 | 25,500 | 113 | 25,000 | 112 | 5500 |
| SL18 3008 | 1.575 | 40 | 2.677 | 68 | 0.827 | 21 | 0.684 | 0.31 | 13,300 | 59 | 15,300 | 68 | 6000 |
| SL18 2208 | 1.575 | 40 | 3.150 | 80 | 0.906 | 23 | 1.213 | 0.55 | 18,900 | 84 | 20,000 | 89 | 5500 |
| SL19 2308 | 1.575 | 40 | 3.543 | 90 | 1.299 | 33 | 2.227 | 1.01 | 34,000 | 152 | 35,000 | 155 | 5000 |
| SL18 3009 | 1.772 | 45 | 2.953 | 75 | 0.906 | 23 | 0.882 | 0.4 | 14,200 | 63 | 17,100 | 76 | 5500 |
| SL18 2209 | 1.772 | 45 | 3.347 | 85 | 0.906 | 23 | 1.301 | 0.59 | 19,800 | 88 | 21,600 | 96 | 5000 |
| SL19 2309 | 1.772 | 45 | 3.937 | 100 | 1.417 | 36 | 3.021 | 1.37 | 36,500 | 162 | 37,000 | 165 | 4500 |
| SL18 3010 | 1.969 | 50 | 3.150 | 80 | 0.906 | 23 | 0.948 | 0.43 | 17,300 | 77 | 20,700 | 92 | 5000 |
| SL18 2210 | 1.969 | 50 | 3.543 | 90 | 0.906 | 23 | 1.411 | 0.64 | 21,400 | 95 | 24,500 | 109 | 4600 |
| SL19 2310 | 1.969 | 50 | 4.331 | 110 | 1.575 | 40 | 3.991 | 1.81 | 46,000 | 205 | 48,500 | 215 | 4100 |
| SL18 3011 | 2.165 | 55 | 3.543 | 90 | 1.024 | 26 | 1.411 | 0.64 | 23,600 | 105 | 30,000 | 134 | 4500 |
| SL18 2211 | 2.165 | 55 | 3.937 | 100 | 0.984 | 25 | 1.918 | 0.87 | 27,500 | 122 | 32,500 | 145 | 4200 |
| SL19 2311 | 2.165 | 55 | 4.724 | 120 | 1.693 | 43 | 5.027 | 2.28 | 54,000 | 242 | 57,000 | 255 | 3700 |
| SL18 2912 | 2.362 | 60 | 3.347 | 85 | 0.630 | 16 | 0.639 | 0.29 | 12,100 | 54 | 16,600 | 74 | 4500 |
| SL18 3012 | 2.362 | 60 | 3.740 | 95 | 1.024 | 26 | 1.521 | 0.69 | 24,300 | 108 | 31,500 | 141 | 4200 |
| SL18 2212 | 2.362 | 60 | 4.331 | 110 | 1.102 | 28 | 2.602 | 1.18 | 34,000 | 152 | 40,000 | 179 | 3800 |
| SL19 2312 | 2.362 | 60 | 5.118 | 130 | 1.811 | 46 | 6.35 | 2.88 | 58,000 | 260 | 63,000 | 280 | 3400 |
| SL18 2913 | 2.559 | 65 | 3.543 | 90 | 0.630 | 16 | 0.684 | 0.31 | 12,800 | 57 | 18,200 | 81 | 4200 |
| SL18 3013 | 2.559 | 65 | 3.937 | 100 | 1.024 | 26 | 1.61 | 0.73 | 25,500 | 113 | 34,500 | 154 | 3900 |
| SL18 2213 | 2.559 | 65 | 4.724 | 120 | 1.221 | 31 | 3.462 | 1.57 | 40,000 | 177 | 48,000 | 213 | 3500 |
| SL19 2313 | 2.559 | 65 | 5.512 | 140 | 1.890 | 48 | 7.762 | 3.52 | 71,000 | 315 | 80,000 | 355 | 3200 |
| SL18 2914 | 2.756 | 70 | 3.937 | 100 | 0.748 | 19 | 1.08 | 0.49 | 17,100 | 76 | 24,300 | 108 | 3800 |
| SL18 3014 | 2.756 | 70 | 4.331 | 110 | 1.181 | 30 | 2.249 | 1.02 | 30,000 | 134 | 38,500 | 171 | 3600 |
| SL18 2214 | 2.756 | 70 | 4.921 | 125 | 1.221 | 31 | 3.66 | 1.66 | 41,000 | 183 | 51,000 | 226 | 3300 |
| SL19 2314 | 2.756 | 70 | 5.906 | 150 | 2.008 | 51 | 9.548 | 4.33 | 78,000 | 345 | 88,000 | 390 | 2900 |
| SL18 2915 | 2.953 | 75 | 4.134 | 105 | 0.748 | 19 | 1.147 | 0.52 | 17,500 | 78 | 26,000 | 116 | 3600 |
| SL18 3015 | 2.953 | 75 | 4.528 | 115 | 1.181 | 30 | 2.337 | 1.06 | 31,500 | 141 | 42,500 | 188 | 3400 |
| SL18 2215 | 2.953 | 75 | 5.118 | 130 | 1.221 | 31 | 3.859 | 1.75 | 42,500 | 190 | 54,000 | 239 | 3200 |
| SL19 2315 | 2.953 | 75 | 6.299 | 160 | 2.165 | 55 | 11.7 | 5.3 | 92,000 | 410 | 107,000 | 475 | 2800 |
| SL18 2916 | 3.150 | 80 | 4.331 | 110 | 0.748 | 19 | 1.213 | 0.55 | 18,200 | 81 | 27,500 | 123 | 3400 |
| SL18 3016 | 3.150 | 80 | 4.921 | 125 | 1.339 | 34 | 3.153 | 1.43 | 39,000 | 173 | 50,000 | 224 | 3200 |
| SL18 2216 | 3.150 | 80 | 5.512 | 140 | 1.299 | 33 | 4.741 | 2.15 | 50,000 | 223 | 63,000 | 280 | 2900 |
| SL19 2316 | 3.150 | 80 | 6.693 | 170 | 2.284 | 58 | 13.9 | 6.32 | 108,000 | 480 | 126,000 | 560 | 2600 |
| SL18 2917 | 3.347 | 85 | 4.724 | 120 | 0.866 | 22 | 1.786 | 0.81 | 22,900 | 102 | 35,000 | 155 | 3200 |
| SL18 3017 | 3.347 | 85 | 5.118 | 130 | 1.339 | 34 | 3.33 | 1.51 | 40,000 | 178 | 53,000 | 235 | 3000 |

# Cylindrical Roller Bearings
## SL18 18, SL18 22, SL18 29, SL18 30 & SL19 SERIES

- Metric series
- Single row
- Semi-locating
- SL18 – Double Flanged Inner Rings
- SL19 – Double Flanged Outer Rings



SL18



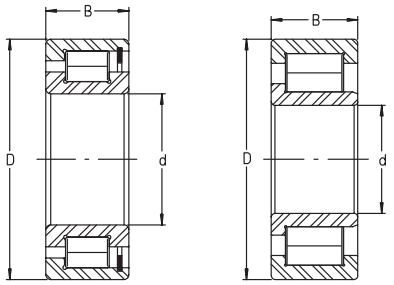
SL19

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OUTER RING OD D inch | OUTER RING OD D mm | BEARING WIDTH B inch | BEARING WIDTH B mm | WEIGHT PER PIECE lbs | WEIGHT PER PIECE kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL18 2217 | 3.347 | 85 | 5.906 | 150 | 1.417 | 36 | 6.042 | 2.74 | 57,000 | 255 | 72,000 | 320 | 2800 |
| SL19 2317 | 3.347 | 85 | 7.087 | 180 | 2.362 | 60 | 16.2 | 7.34 | 115,000 | 510 | 139,000 | 620 | 2400 |
| SL18 2918 | 3.543 | 90 | 4.921 | 125 | 0.866 | 22 | 1.852 | 0.84 | 23,800 | 106 | 37,000 | 165 | 3000 |
| SL18 3018 | 3.543 | 90 | 5.512 | 140 | 1.457 | 37 | 4.344 | 1.97 | 46,500 | 207 | 63,000 | 280 | 2800 |
| SL18 2218 | 3.543 | 90 | 6.299 | 160 | 1.575 | 40 | 7.673 | 3.48 | 64,000 | 285 | 82,000 | 365 | 2600 |
| SL19 2318 | 3.543 | 90 | 7.480 | 190 | 2.520 | 64 | 19.5 | 8.83 | 126,000 | 560 | 148,000 | 660 | 2300 |
| SL18 2919 | 3.740 | 95 | 5.118 | 130 | 0.866 | 22 | 1.896 | 0.86 | 25,500 | 114 | 38,500 | 172 | 2900 |
| SL18 2219 | 3.740 | 95 | 6.693 | 170 | 1.693 | 43 | 9.195 | 4.17 | 75,000 | 335 | 97,000 | 430 | 2400 |
| SL19 2319 | 3.740 | 95 | 7.874 | 200 | 2.638 | 67 | 22.5 | 10.2 | 130,000 | 580 | 162,000 | 720 | 2200 |
| SL18 2920 | 3.937 | 100 | 5.512 | 140 | 0.945 | 24 | 2.514 | 1.14 | 29,500 | 132 | 44,500 | 199 | 2700 |
| SL18 3020 | 3.937 | 100 | 5.906 | 150 | 1.457 | 37 | 4.741 | 2.15 | 49,000 | 218 | 69,000 | 305 | 2600 |
| SL18 2220 | 3.937 | 100 | 7.087 | 180 | 1.811 | 46 | 11.3 | 5.13 | 88,000 | 390 | 117,000 | 520 | 2300 |
| SL19 2320 | 3.937 | 100 | 8.465 | 215 | 2.874 | 73 | 28.7 | 13 | 160,000 | 710 | 193,000 | 860 | 2100 |
| SL18 2922 | 4.331 | 110 | 5.906 | 150 | 0.945 | 24 | 2.712 | 1.23 | 31,000 | 137 | 48,000 | 213 | 2500 |
| SL18 3022 | 4.331 | 110 | 6.693 | 170 | 1.772 | 45 | 7.718 | 3.5 | 64,000 | 285 | 89,000 | 395 | 2300 |
| SL18 2222 | 4.331 | 110 | 7.874 | 200 | 2.087 | 53 | 16.0 | 7.24 | 102,000 | 455 | 133,000 | 590 | 2100 |
| SL19 2322 | 4.331 | 110 | 9.449 | 240 | 3.150 | 80 | 37.5 | 17 | 189,000 | 840 | 218,000 | 970 | 1900 |
| SL18 2924 | 4.724 | 120 | 6.496 | 165 | 1.063 | 27 | 3.815 | 1.73 | 39,500 | 176 | 64,000 | 285 | 2300 |
| SL18 3024 | 4.724 | 120 | 7.087 | 180 | 1.811 | 46 | 8.379 | 3.8 | 67,000 | 300 | 98,000 | 435 | 2200 |
| SL18 2224 | 4.724 | 120 | 8.465 | 215 | 2.284 | 58 | 20.0 | 9.08 | 119,000 | 530 | 164,000 | 730 | 1900 |
| SL19 2324 | 4.724 | 120 | 10.236 | 260 | 3.386 | 86 | 49.2 | 22.3 | 223,000 | 990 | 275,000 | 1220 | 1700 |
| SL18 2926 | 5.118 | 130 | 7.087 | 180 | 1.181 | 30 | 5.138 | 2.33 | 47,000 | 210 | 79,000 | 350 | 2100 |
| SL18 3026 | 5.118 | 130 | 7.874 | 200 | 2.047 | 52 | 12.5 | 5.65 | 97,000 | 430 | 137,000 | 610 | 2000 |
| SL18 2226 | 5.118 | 130 | 9.055 | 230 | 2.520 | 64 | 24.8 | 11.25 | 142,000 | 630 | 193,000 | 860 | 1800 |
| SL18 2928 | 5.512 | 140 | 7.480 | 190 | 1.181 | 30 | 5.336 | 2.42 | 51,000 | 228 | 84,000 | 375 | 2000 |
| SL18 3028 | 5.512 | 140 | 8.268 | 210 | 2.087 | 53 | 13.3 | 6.04 | 102,000 | 455 | 151,000 | 670 | 1900 |
| SL18 2228 | 5.512 | 140 | 9.843 | 250 | 2.677 | 68 | 31.9 | 14.47 | 162,000 | 720 | 229,000 | 1020 | 1700 |
| SL18 2930 | 5.906 | 150 | 8.268 | 210 | 1.417 | 36 | 8.313 | 3.77 | 69,000 | 305 | 110,000 | 490 | 1800 |
| SL18 3030 | 5.906 | 150 | 8.858 | 225 | 2.205 | 56 | 16.2 | 7.33 | 107,000 | 475 | 157,000 | 700 | 1700 |
| SL18 2230 | 5.906 | 150 | 10.630 | 270 | 2.874 | 73 | 40.6 | 18.43 | 187,000 | 830 | 265,000 | 1180 | 1500 |
| SL18 2932 | 6.299 | 160 | 8.661 | 220 | 1.417 | 36 | 8.82 | 4 | 72,000 | 320 | 117,000 | 520 | 1700 |
| SL18 3032 | 6.299 | 160 | 9.449 | 240 | 2.362 | 60 | 19.4 | 8.8 | 121,000 | 540 | 182,000 | 810 | 1600 |
| SL18 2232 | 6.299 | 160 | 11.417 | 290 | 3.150 | 80 | 50.7 | 23 | 229,000 | 1020 | 330,000 | 1460 | 1400 |
| SL18 2934 | 6.693 | 170 | 9.055 | 230 | 1.417 | 36 | 9.482 | 4.3 | 74,000 | 330 | 126,000 | 560 | 1600 |
| SL18 3034 | 6.693 | 170 | 10.236 | 260 | 2.638 | 67 | 26.9 | 12.2 | 160,000 | 710 | 241,000 | 1070 | 1500 |
| SL18 2234 | 6.693 | 170 | 12.205 | 310 | 3.386 | 86 | 63.2 | 28.65 | 255,000 | 1140 | 375,000 | 1660 | 1400 |
| SL18 2936 | 7.087 | 180 | 9.843 | 250 | 1.654 | 42 | 13.7 | 6.2 | 92,000 | 410 | 155,000 | 690 | 1500 |
| SL18 3036 | 7.087 | 180 | 11.024 | 280 | 2.913 | 74 | 35.5 | 16.1 | 184,000 | 820 | 285,000 | 1260 | 1400 |
| SL18 2236 | 7.087 | 180 | 12.598 | 320 | 3.386 | 86 | 65.7 | 29.8 | 265,000 | 1180 | 395,000 | 1760 | 1300 |
| SL18 2938 | 7.480 | 190 | 10.236 | 260 | 1.654 | 42 | 14.3 | 6.5 | 102,000 | 455 | 178,000 | 790 | 1400 |
| SL18 3038 | 7.480 | 190 | 11.417 | 290 | 2.953 | 75 | 37.5 | 17 | 189,000 | 840 | 295,000 | 1320 | 1400 |
| SL18 2238 | 7.480 | 190 | 13.386 | 340 | 3.622 | 92 | 78.6 | 35.65 | 290,000 | 1300 | 425,000 | 1900 | 1200 |
| SL18 1840 | 7.874 | 200 | 9.843 | 250 | 0.945 | 24 | 5.667 | 2.57 | 40,000 | 178 | 72,000 | 320 | 1400 |
| SL18 2940 | 7.874 | 200 | 11.024 | 280 | 1.890 | 48 | 20.1 | 9.1 | 124,000 | 550 | 211,000 | 940 | 1400 |
| SL18 3040 | 7.874 | 200 | 12.205 | 310 | 3.228 | 82 | 48.1 | 21.8 | 216,000 | 960 | 345,000 | 1530 | 1300 |

# Cylindrical Roller Bearings
## SL18 18, SL18 22, SL18 29, SL18 30 &
## SL19 SERIES

- Metric series
- Single row
- Semi-locating
- SL18 – Double Flanged Inner Rings
- SL19 – Double Flanged Outer Rings



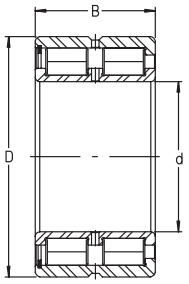
SL18 SL19

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OUTER RING OD D inch | OUTER RING OD D mm | BEARING WIDTH B inch | BEARING WIDTH B mm | WEIGHT PER PIECE lbs | WEIGHT PER PIECE kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL18 2240 | 7.874 | 200 | 14.173 | 360 | 3.858 | 98 | 95.1 | 43.12 | 320,000 | 1420 | 460,000 | 2040 | 1200 |
| SL18 1844 | 8.661 | 220 | 10.63 | 270 | 0.945 | 24 | 6.174 | 2.8 | 42000 | 187 | 79000 | 350 | 1300 |
| SL18 2944 | 8.661 | 220 | 11.811 | 300 | 1.890 | 48 | 21.8 | 9.9 | 128,000 | 570 | 234,000 | 1040 | 1200 |
| SL18 3044 | 8.661 | 220 | 13.386 | 340 | 3.543 | 90 | 62.6 | 28.4 | 260,000 | 1150 | 405,000 | 1810 | 1200 |
| SL18 1848 | 9.449 | 240 | 11.811 | 300 | 1.102 | 28 | 9.702 | 4.4 | 47500 | 212 | 91000 | 405 | 1200 |
| SL18 2948 | 9.449 | 240 | 12.598 | 320 | 1.890 | 48 | 23.4 | 10.6 | 135,000 | 600 | 255,000 | 1130 | 1200 |
| SL18 3048 | 9.449 | 240 | 14.173 | 360 | 3.622 | 92 | 68.1 | 30.9 | 270,000 | 1210 | 445,000 | 1990 | 1100 |
| SL18 1852 | 10.236 | 260 | 12.598 | 320 | 1.102 | 28 | 10.4 | 4.71 | 50000 | 222 | 99000 | 440 | 1100 |
| SL18 2952 | 10.236 | 260 | 14.173 | 360 | 2.362 | 60 | 40.8 | 18.5 | 178,000 | 790 | 330,000 | 1460 | 1000 |
| SL18 3052 | 10.236 | 260 | 15.748 | 400 | 4.095 | 104 | 98.1 | 44.5 | 365,000 | 1620 | 570,000 | 2550 | 1000 |
| SL18 1856 | 11.024 | 280 | 13.78 | 350 | 1.299 | 33 | 15.4 | 7 | 69000 | 305 | 135000 | 600 | 1000 |
| SL18 2956 | 11.024 | 280 | 14.961 | 380 | 2.362 | 60 | 43.4 | 19.7 | 207,000 | 920 | 390,000 | 1740 | 1000 |
| SL18 3056 | 11.024 | 280 | 16.535 | 420 | 4.173 | 106 | 105.8 | 48 | 375,000 | 1660 | 610,000 | 2700 | 950 |
| SL18 1860 | 11.811 | 300 | 14.961 | 380 | 1.496 | 38 | 22.1 | 10 | 84000 | 375 | 164000 | 730 | 950 |
| SL18 2960 | 11.811 | 300 | 16.535 | 420 | 2.835 | 72 | 68.8 | 31.2 | 265,000 | 1180 | 500,000 | 2230 | 900 |
| SL18 3060 | 11.811 | 300 | 18.110 | 460 | 4.646 | 118 | 146.9 | 66.6 | 460,000 | 2040 | 750,000 | 3350 | 850 |
| SL18 1864 | 12.598 | 320 | 15.748 | 400 | 1.496 | 38 | 23.4 | 10.6 | 87000 | 385 | 175000 | 780 | 900 |
| SL18 2964 | 12.598 | 320 | 17.323 | 440 | 2.835 | 72 | 72.5 | 32.9 | 275,000 | 1220 | 530,000 | 2360 | 850 |
| SL18 3064 | 12.598 | 320 | 18.898 | 480 | 4.764 | 121 | 158.1 | 71.7 | 470,000 | 2090 | 790,000 | 3500 | 800 |
| SL18 1868 | 13.386 | 340 | 16.535 | 420 | 1.496 | 38 | 24.7 | 11.2 | 89000 | 395 | 184000 | 820 | 850 |
| SL18 2968 | 13.386 | 340 | 18.110 | 460 | 2.835 | 72 | 76.5 | 34.7 | 285,000 | 1260 | 560,000 | 2500 | 800 |
| SL18 3068 | 13.386 | 340 | 20.472 | 520 | 5.236 | 133 | 211.2 | 95.8 | 560,000 | 2490 | 930,000 | 4150 | 750 |
| SL18 1872 | 14.173 | 360 | 17.323 | 440 | 1.496 | 38 | 25.8 | 11.7 | 92000 | 410 | 196000 | 870 | 800 |
| SL18 2972 | 14.173 | 360 | 18.898 | 480 | 2.835 | 72 | 80.3 | 36.4 | 290,000 | 1290 | 600,000 | 2650 | 750 |
| SL18 3072 | 14.173 | 360 | 21.260 | 540 | 5.276 | 134 | 222.7 | 101 | 570,000 | 2550 | 980,000 | 4350 | 700 |
| SL18 1876 | 14.961 | 380 | 18.898 | 480 | 1.811 | 46 | 42.3 | 19.2 | 128000 | 570 | 260000 | 1150 | 750 |
| SL18 2976 | 14.961 | 380 | 20.472 | 520 | 3.228 | 82 | 114.9 | 52.1 | 375,000 | 1670 | 740,000 | 3300 | 700 |
| SL18 3076 | 14.961 | 380 | 22.047 | 560 | 5.315 | 135 | 233.7 | 106 | 600,000 | 2650 | 1,020,000 | 4550 | 700 |
| SL18 1880 | 15.748 | 400 | 19.685 | 500 | 1.811 | 46 | 44.1 | 20 | 133000 | 590 | 275000 | 1220 | 700 |
| SL18 2980 | 15.748 | 400 | 21.260 | 540 | 3.228 | 82 | 119.7 | 54.3 | 385,000 | 1720 | 790,000 | 3500 | 700 |
| SL18 3080 | 15.748 | 400 | 23.622 | 600 | 5.827 | 148 | 308.7 | 140 | 700,000 | 3100 | 1,240,000 | 5500 | 650 |
| SL18 1884 | 16.535 | 420 | 20.472 | 520 | 1.811 | 46 | 46.1 | 20.9 | 135000 | 600 | 285000 | 1260 | 700 |
| SL18 2984 | 16.535 | 420 | 22.047 | 560 | 3.228 | 82 | 125.5 | 56.9 | 395,000 | 1750 | 810,000 | 3600 | 650 |
| SL18 1888 | 17.323 | 440 | 21.26 | 540 | 1.811 | 46 | 48.1 | 21.8 | 137000 | 610 | 295000 | 1320 | 650 |
| SL18 2988 | 17.323 | 440 | 23.622 | 600 | 3.740 | 95 | 172.2 | 78.1 | 480,000 | 2130 | 940,000 | 4200 | 600 |
| SL18 1892 | 18.110 | 460 | 22.835 | 580 | 2.205 | 56 | 74.8 | 33.9 | 178000 | 790 | 375000 | 1660 | 600 |
| SL18 2992 | 18.110 | 460 | 24.409 | 620 | 3.740 | 95 | 178.8 | 81.1 | 485,000 | 2160 | 980,000 | 4350 | 600 |
| SL18 1896 | 18.898 | 480 | 23.622 | 600 | 2.205 | 56 | 77.6 | 35.2 | 180000 | 800 | 385000 | 1720 | 600 |
| SL18 2996 | 18.898 | 480 | 25.591 | 650 | 3.937 | 100 | 208.8 | 94.7 | 550,000 | 2430 | 1,100,000 | 4900 | 550 |
| SL18 18/500 | 19.685 | 500 | 24.409 | 620 | 2.205 | 56 | 80.5 | 36.5 | 184000 | 820 | 405000 | 1810 | 600 |
| SL18 29/500 | 19.685 | 500 | 26.378 | 670 | 3.937 | 100 | 216.8 | 98.3 | 550,000 | 2460 | 1,150,000 | 5100 | 550 |

# Cylindrical Roller Bearings
## SL18 49, SL18 50 SERIES

- Double row
- Full complement for maximum capacity
- Semi-locating bearing



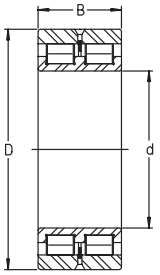

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL18 5004 | 0.787 | 20 | 1.654 | 42 | 1.181 | 30 | 0.441 | 0.2 | 10,700 | 47.5 | 11,900 | 53 | 10000 |
| SL18 5005 | 0.984 | 25 | 1.850 | 47 | 1.181 | 30 | 0.507 | 0.23 | 12,100 | 54 | 14,600 | 65 | 9000 |
| SL18 5006 | 1.181 | 30 | 2.165 | 55 | 1.339 | 34 | 0.772 | 0.35 | 15,700 | 70 | 19,300 | 86 | 7500 |
| SL18 5007 | 1.378 | 35 | 2.441 | 62 | 1.417 | 36 | 1.014 | 0.46 | 19,100 | 85 | 24,500 | 109 | 6500 |
| SL18 5008 | 1.575 | 40 | 2.677 | 68 | 1.496 | 38 | 1.235 | 0.56 | 22,700 | 101 | 30,500 | 136 | 6000 |
| SL18 5009 | 1.772 | 45 | 2.953 | 75 | 1.575 | 40 | 1.566 | 0.71 | 24,300 | 108 | 34,000 | 151 | 5500 |
| SL18 5010 | 1.969 | 50 | 3.150 | 80 | 1.575 | 40 | 1.676 | 0.76 | 29,500 | 131 | 41,500 | 184 | 5000 |
| SL18 5011 | 2.165 | 55 | 3.543 | 90 | 1.811 | 46 | 2.558 | 1.16 | 40,000 | 179 | 61,000 | 270 | 4500 |
| SL18 4912 | 2.362 | 60 | 3.347 | 85 | 0.984 | 25 | 1.058 | 0.48 | 15,100 | 67 | 26,000 | 115 | 4500 |
| SL18 5012 | 2.362 | 60 | 3.740 | 95 | 1.811 | 46 | 2.734 | 1.24 | 41,500 | 184 | 63,000 | 280 | 4200 |
| SL18 5013 | 2.559 | 65 | 3.937 | 100 | 1.811 | 46 | 2.911 | 1.32 | 43,500 | 194 | 70,000 | 310 | 3900 |
| SL18 4914 | 2.756 | 70 | 3.937 | 100 | 1.181 | 30 | 1.72 | 0.78 | 23,200 | 103 | 40,000 | 178 | 3800 |
| SL18 5014 | 2.756 | 70 | 4.331 | 110 | 2.126 | 54 | 4.079 | 1.85 | 51,000 | 229 | 76,000 | 340 | 3600 |
| SL18 5015 | 2.953 | 75 | 4.528 | 115 | 2.126 | 54 | 4.256 | 1.93 | 54,000 | 242 | 84,000 | 375 | 3400 |
| SL18 4916 | 3.150 | 80 | 4.331 | 110 | 1.181 | 30 | 1.94 | 0.88 | 24,500 | 109 | 44,500 | 199 | 3400 |
| SL18 5016 | 3.150 | 80 | 4.921 | 125 | 2.362 | 60 | 5.711 | 2.59 | 66,000 | 295 | 101,000 | 450 | 3200 |
| SL18 5017 | 3.347 | 85 | 5.118 | 130 | 2.362 | 60 | 5.998 | 2.72 | 69,000 | 305 | 106,000 | 470 | 3000 |
| SL18 4918 | 3.543 | 90 | 4.921 | 125 | 1.378 | 35 | 2.977 | 1.35 | 33,500 | 149 | 63,000 | 280 | 3000 |
| SL18 5018 | 3.543 | 90 | 5.512 | 140 | 2.638 | 67 | 7.982 | 3.62 | 80,000 | 355 | 126,000 | 560 | 2800 |
| SL18 4920 | 3.937 | 100 | 5.512 | 140 | 1.575 | 40 | 4.3 | 1.95 | 43,000 | 191 | 83,000 | 370 | 2700 |
| SL18 5020 | 3.937 | 100 | 5.906 | 150 | 2.638 | 67 | 8.688 | 3.94 | 84,000 | 375 | 137,000 | 610 | 2600 |
| SL18 4922 | 4.331 | 110 | 5.906 | 150 | 1.575 | 40 | 4.741 | 2.15 | 44,500 | 198 | 90,000 | 400 | 2500 |
| SL18 5022 | 4.331 | 110 | 6.693 | 170 | 3.150 | 80 | 13.9 | 6.32 | 110,000 | 490 | 178,000 | 790 | 2300 |
| SL18 4924 | 4.724 | 120 | 6.496 | 165 | 1.772 | 45 | 6.505 | 2.95 | 50,000 | 222 | 99,000 | 440 | 2300 |
| SL18 5024 | 4.724 | 120 | 7.087 | 180 | 3.150 | 80 | 14.9 | 6.77 | 117,000 | 520 | 196,000 | 870 | 2200 |
| SL18 4926 | 5.118 | 130 | 7.087 | 180 | 1.969 | 50 | 8.71 | 3.95 | 58,000 | 260 | 115,000 | 510 | 2100 |
| SL18 5026 | 5.118 | 130 | 7.874 | 200 | 3.740 | 95 | 22.5 | 10.2 | 166,000 | 740 | 275,000 | 1220 | 2000 |
| SL18 4928 | 5.512 | 140 | 7.480 | 190 | 1.969 | 50 | 9.261 | 4.2 | 61,000 | 270 | 124,000 | 550 | 2000 |
| SL18 5028 | 5.512 | 140 | 8.268 | 210 | 3.740 | 95 | 24.5 | 11.1 | 175,000 | 780 | 300,000 | 1340 | 1900 |
| SL18 4930 | 5.906 | 150 | 8.268 | 210 | 2.362 | 60 | 14.7 | 6.65 | 92,000 | 410 | 184,000 | 820 | 1800 |
| SL18 5030 | 5.906 | 150 | 8.858 | 225 | 3.937 | 100 | 29.3 | 13.3 | 182,000 | 810 | 315,000 | 1400 | 1700 |
| SL18 4932 | 6.299 | 160 | 8.661 | 220 | 2.362 | 60 | 15.4 | 7 | 96,000 | 425 | 198,000 | 880 | 1700 |
| SL18 4934 | 6.693 | 170 | 9.055 | 230 | 2.362 | 60 | 16.2 | 7.35 | 98,000 | 435 | 209,000 | 930 | 1600 |
| SL18 4936 | 7.087 | 180 | 9.843 | 250 | 2.717 | 69 | 23.8 | 10.8 | 128,000 | 570 | 270,000 | 1200 | 1500 |
| SL18 4938 | 7.480 | 190 | 10.236 | 260 | 2.717 | 69 | 24.7 | 11.2 | 130,000 | 580 | 285,000 | 1270 | 1400 |
| SL18 4940 | 7.874 | 200 | 11.024 | 280 | 3.150 | 80 | 34.8 | 15.8 | 155,000 | 690 | 335,000 | 1480 | 1400 |
| SL18 4944 | 8.661 | 220 | 11.811 | 300 | 3.150 | 80 | 37.9 | 17.2 | 162,000 | 720 | 355,000 | 1590 | 1200 |
| SL18 4948 | 9.449 | 240 | 12.598 | 320 | 3.150 | 80 | 40.8 | 18.5 | 166,000 | 740 | 385,000 | 1710 | 1200 |
| SL18 4952 | 10.236 | 260 | 14.173 | 360 | 3.937 | 100 | 70.6 | 32 | 250,000 | 1110 | 560,000 | 2490 | 1000 |
| SL18 4956 | 11.024 | 280 | 14.961 | 380 | 3.937 | 100 | 75.0 | 34 | 260,000 | 1150 | 610,000 | 2700 | 1000 |
| SL18 4960 | 11.811 | 300 | 16.535 | 420 | 4.646 | 118 | 116.9 | 53 | 370,000 | 1650 | 850,000 | 3800 | 900 |
| SL18 4964 | 12.598 | 320 | 17.323 | 440 | 4.646 | 118 | 123.5 | 56 | 385,000 | 1720 | 920,000 | 4100 | 850 |
| SL18 4968 | 13.386 | 340 | 18.110 | 460 | 4.646 | 118 | 130.1 | 59 | 400,000 | 1770 | 970,000 | 4300 | 800 |
| SL18 4972 | 14.173 | 360 | 18.898 | 480 | 4.646 | 118 | 136.9 | 62.1 | 405,000 | 1810 | 1,010,000 | 4500 | 750 |
| SL18 4976 | 14.961 | 380 | 20.472 | 520 | 5.512 | 140 | 203.7 | 92.4 | 510,000 | 2270 | 1,260,000 | 5600 | 700 |
| SL18 4980 | 15.748 | 400 | 21.260 | 540 | 5.512 | 140 | 212.8 | 96.5 | 520,000 | 2330 | 1,330,000 | 5900 | 700 |

# Cylindrical Roller Bearings

## SL02 SERIES

- Double row
- Full complement for maximum capacity
- Non-locating bearing



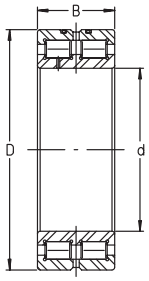

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL02 4912 | 2.362 | 60 | 3.347 | 85 | 0.984 | 25 | 1.036 | 0.47 | 15,100 | 67 | 26,000 | 115 | 4500 |
| SL02 4914 | 2.756 | 70 | 3.937 | 100 | 1.181 | 30 | 1.654 | 0.75 | 23,200 | 103 | 40,000 | 178 | 3800 |
| SL02 4916 | 3.150 | 80 | 4.331 | 110 | 1.181 | 30 | 1.874 | 0.85 | 24,500 | 109 | 44,500 | 199 | 3400 |
| SL02 4918 | 3.543 | 90 | 4.921 | 125 | 1.378 | 35 | 2.867 | 1.3 | 33,500 | 149 | 63,000 | 280 | 3000 |
| SL02 4920 | 3.937 | 100 | 5.512 | 140 | 1.575 | 40 | 4.19 | 1.9 | 43,000 | 191 | 83,000 | 370 | 2700 |
| SL02 4922 | 4.331 | 110 | 5.906 | 150 | 1.575 | 40 | 4.631 | 2.1 | 44,500 | 198 | 90,000 | 400 | 2500 |
| SL02 4924 | 4.724 | 120 | 6.496 | 165 | 1.772 | 45 | 6.284 | 2.85 | 50,000 | 222 | 99,000 | 440 | 2300 |
| SL02 4926 | 5.118 | 130 | 7.087 | 180 | 1.969 | 50 | 8.379 | 3.8 | 58,000 | 260 | 115,000 | 510 | 2100 |
| SL02 4928 | 5.512 | 140 | 7.480 | 190 | 1.969 | 50 | 9.041 | 4.1 | 61,000 | 270 | 124,000 | 550 | 2000 |
| SL02 4830 | 5.906 | 150 | 7.480 | 190 | 1.575 | 40 | 6.174 | 2.8 | 52,000 | 231 | 119,000 | 530 | 1900 |
| SL02 4930 | 5.906 | 150 | 8.268 | 210 | 2.362 | 60 | 14.2 | 6.45 | 92,000 | 410 | 184,000 | 820 | 1800 |
| SL02 4832 | 6.299 | 160 | 7.874 | 200 | 1.575 | 40 | 6.615 | 3 | 53,000 | 237 | 126,000 | 560 | 1800 |
| SL02 4932 | 6.299 | 160 | 8.661 | 220 | 2.362 | 60 | 15.0 | 6.8 | 96,000 | 425 | 198,000 | 880 | 1700 |
| SL02 4834 | 6.693 | 170 | 8.465 | 215 | 1.772 | 45 | 8.71 | 3.95 | 58,000 | 260 | 135,000 | 600 | 1700 |
| SL02 4934 | 6.693 | 170 | 9.055 | 230 | 2.362 | 60 | 15.7 | 7.1 | 98,000 | 435 | 209,000 | 930 | 1600 |
| SL02 4836 | 7.087 | 180 | 8.858 | 225 | 1.772 | 45 | 9.151 | 4.15 | 61,000 | 270 | 144,000 | 640 | 1600 |
| SL02 4936 | 7.087 | 180 | 9.843 | 250 | 2.717 | 69 | 23.2 | 10.5 | 128,000 | 570 | 270,000 | 1200 | 1500 |
| SL02 4838 | 7.480 | 190 | 9.449 | 240 | 1.969 | 50 | 12.0 | 5.45 | 70,000 | 310 | 164,000 | 730 | 1500 |
| SL02 4938 | 7.480 | 190 | 10.236 | 260 | 2.717 | 69 | 24.0 | 10.9 | 130,000 | 580 | 285,000 | 1270 | 1400 |
| SL02 4840 | 7.874 | 200 | 9.843 | 250 | 1.969 | 50 | 12.6 | 5.7 | 72,000 | 320 | 173,000 | 770 | 1400 |
| SL02 4940 | 7.874 | 200 | 11.024 | 280 | 3.150 | 80 | 33.7 | 15.3 | 155,000 | 690 | 335,000 | 1480 | 1400 |
| SL02 4844 | 8.661 | 220 | 10.630 | 270 | 1.969 | 50 | 13.7 | 6.2 | 75,000 | 335 | 189,000 | 840 | 1300 |
| SL02 4944 | 8.661 | 220 | 11.811 | 300 | 3.150 | 80 | 36.8 | 16.7 | 162,000 | 720 | 355,000 | 1590 | 1200 |
| SL02 4848 | 9.449 | 240 | 11.811 | 300 | 2.362 | 60 | 21.8 | 9.9 | 112,000 | 500 | 275,000 | 1230 | 1200 |
| SL02 4948 | 9.449 | 240 | 12.598 | 320 | 3.150 | 80 | 39.5 | 17.9 | 166,000 | 740 | 385,000 | 1710 | 1200 |
| SL02 4852 | 10.236 | 260 | 12.598 | 320 | 2.362 | 60 | 23.4 | 10.6 | 119,000 | 530 | 300,000 | 1340 | 1100 |
| SL02 4952 | 10.236 | 260 | 14.173 | 360 | 3.937 | 100 | 68.8 | 31.2 | 250,000 | 1110 | 560,000 | 2490 | 1000 |
| SL02 4856 | 11.024 | 280 | 13.780 | 350 | 2.717 | 69 | 34.4 | 15.6 | 155,000 | 690 | 400,000 | 1790 | 1000 |
| SL02 4956 | 11.024 | 280 | 14.961 | 380 | 3.937 | 100 | 73.0 | 33.1 | 260,000 | 1150 | 610,000 | 2700 | 1000 |
| SL02 4860 | 11.811 | 300 | 14.961 | 380 | 3.150 | 80 | 48.5 | 22 | 184,000 | 820 | 470,000 | 2090 | 950 |
| SL02 4960 | 11.811 | 300 | 16.535 | 420 | 4.646 | 118 | 114.4 | 51.9 | 370,000 | 1650 | 850,000 | 3800 | 900 |
| SL02 4864 | 12.598 | 320 | 15.748 | 400 | 3.150 | 80 | 51.8 | 23.5 | 191,000 | 850 | 500,000 | 2240 | 900 |
| SL02 4964 | 12.598 | 320 | 17.323 | 440 | 4.646 | 118 | 121.1 | 54.9 | 385,000 | 1720 | 920,000 | 4100 | 850 |
| SL02 4868 | 13.386 | 340 | 16.535 | 420 | 3.150 | 80 | 55.1 | 25 | 196,000 | 870 | 530,000 | 2350 | 850 |
| SL02 4968 | 13.386 | 340 | 18.110 | 460 | 4.646 | 118 | 127.4 | 57.8 | 400,000 | 1770 | 970,000 | 4300 | 800 |
| SL02 4872 | 14.173 | 360 | 17.323 | 440 | 3.150 | 80 | 57.3 | 26 | 202,000 | 900 | 560,000 | 2500 | 800 |
| SL02 4972 | 14.173 | 360 | 18.898 | 480 | 4.646 | 118 | 134.1 | 60.8 | 405,000 | 1810 | 1,010,000 | 4500 | 750 |
| SL02 4876 | 14.961 | 380 | 18.898 | 480 | 3.937 | 100 | 97.0 | 44 | 295,000 | 1310 | 780,000 | 3450 | 750 |
| SL02 4976 | 14.961 | 380 | 20.472 | 520 | 5.512 | 140 | 199.6 | 90.5 | 510,000 | 2270 | 1,260,000 | 5600 | 700 |
| SL02 4880 | 15.748 | 400 | 19.685 | 500 | 3.937 | 100 | 101.0 | 45.8 | 300,000 | 1330 | 810,000 | 3600 | 700 |
| SL02 4980 | 15.748 | 400 | 21.260 | 540 | 5.512 | 140 | 208.6 | 94.6 | 520,000 | 2330 | 1,330,000 | 5900 | 700 |

# Cylindrical Roller Bearings

## SL01 SERIES

- Double row
- Full complement for maximum capacity
- Locating bearing



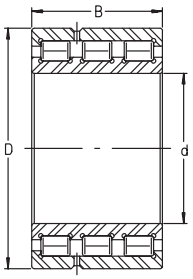

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL01 4912 | 2.362 | 60 | 3.347 | 85 | 0.984 | 25 | 1.08 | 0.49 | 15,100 | 67 | 26,000 | 115 | 4500 |
| SL01 4914 | 2.756 | 70 | 3.937 | 100 | 1.181 | 30 | 1.72 | 0.78 | 23,200 | 103 | 40,000 | 178 | 3800 |
| SL01 4916 | 3.150 | 80 | 4.331 | 110 | 1.181 | 30 | 1.94 | 0.88 | 24,500 | 109 | 44,500 | 199 | 3400 |
| SL01 4918 | 3.543 | 90 | 4.921 | 125 | 1.378 | 35 | 2.977 | 1.35 | 33,500 | 149 | 63,000 | 280 | 3000 |
| SL01 4920 | 3.937 | 100 | 5.512 | 140 | 1.575 | 40 | 4.3 | 1.95 | 43,000 | 191 | 83,000 | 370 | 2700 |
| SL01 4922 | 4.331 | 110 | 5.906 | 150 | 1.575 | 40 | 4.741 | 2.15 | 44,500 | 198 | 90,000 | 400 | 2500 |
| SL01 4924 | 4.724 | 120 | 6.496 | 165 | 1.772 | 45 | 6.505 | 2.95 | 50,000 | 222 | 99,000 | 440 | 2300 |
| SL01 4926 | 5.118 | 130 | 7.087 | 180 | 1.969 | 50 | 8.71 | 3.95 | 58,000 | 260 | 115,000 | 510 | 2100 |
| SL01 4928 | 5.512 | 140 | 7.480 | 190 | 1.969 | 50 | 9.261 | 4.2 | 61,000 | 270 | 124,000 | 550 | 2000 |
| SL01 4830 | 5.906 | 150 | 7.480 | 190 | 1.575 | 40 | 6.395 | 2.9 | 52,000 | 231 | 119,000 | 530 | 1900 |
| SL01 4930 | 5.906 | 150 | 8.268 | 210 | 2.362 | 60 | 14.7 | 6.65 | 92,000 | 410 | 184,000 | 820 | 1800 |
| SL01 4832 | 6.299 | 160 | 7.874 | 200 | 1.575 | 40 | 6.836 | 3.1 | 53,000 | 237 | 126,000 | 560 | 1800 |
| SL01 4932 | 6.299 | 160 | 8.661 | 220 | 2.362 | 60 | 15.4 | 7 | 96,000 | 425 | 198,000 | 880 | 1700 |
| SL01 4834 | 6.693 | 170 | 8.465 | 215 | 1.772 | 45 | 9.041 | 4.1 | 58,000 | 260 | 135,000 | 600 | 1700 |
| SL01 4934 | 6.693 | 170 | 9.055 | 230 | 2.362 | 60 | 16.2 | 7.35 | 98,000 | 435 | 209,000 | 930 | 1600 |
| SL01 4836 | 7.087 | 180 | 8.858 | 225 | 1.772 | 45 | 9.482 | 4.3 | 61,000 | 270 | 144,000 | 640 | 1600 |
| SL01 4936 | 7.087 | 180 | 9.843 | 250 | 2.717 | 69 | 23.8 | 10.8 | 128,000 | 570 | 270,000 | 1200 | 1500 |
| SL01 4838 | 7.480 | 190 | 9.449 | 240 | 1.969 | 50 | 12.458 | 5.65 | 70,000 | 310 | 164,000 | 730 | 1500 |
| SL01 4938 | 7.480 | 190 | 10.236 | 260 | 2.717 | 69 | 24.7 | 11.2 | 130,000 | 580 | 285,000 | 1270 | 1400 |
| SL01 4840 | 7.874 | 200 | 9.843 | 250 | 1.969 | 50 | 13.01 | 5.9 | 72,000 | 320 | 173,000 | 770 | 1400 |
| SL01 4940 | 7.874 | 200 | 11.024 | 280 | 3.150 | 80 | 34.8 | 15.8 | 155,000 | 690 | 335,000 | 1480 | 1400 |
| SL01 4844 | 8.661 | 220 | 10.630 | 270 | 1.969 | 50 | 14.112 | 6.4 | 75,000 | 335 | 189,000 | 840 | 1300 |
| SL01 4944 | 8.661 | 220 | 11.811 | 300 | 3.150 | 80 | 37.9 | 17.2 | 162,000 | 720 | 355,000 | 1590 | 1200 |
| SL01 4848 | 9.449 | 240 | 11.811 | 300 | 2.362 | 60 | 22.05 | 10 | 112,000 | 500 | 275,000 | 1230 | 1200 |
| SL01 4948 | 9.449 | 240 | 12.598 | 320 | 3.150 | 80 | 40.8 | 18.5 | 166,000 | 740 | 385,000 | 1710 | 1200 |
| SL01 4852 | 10.236 | 260 | 12.598 | 320 | 2.362 | 60 | 24.255 | 11 | 119,000 | 530 | 300,000 | 1340 | 1100 |
| SL01 4952 | 10.236 | 260 | 14.173 | 360 | 3.937 | 100 | 70.6 | 32 | 250,000 | 1110 | 560,000 | 2490 | 1000 |
| SL01 4856 | 11.024 | 280 | 13.780 | 350 | 2.717 | 69 | 35.28 | 16 | 155,000 | 690 | 400,000 | 1790 | 1000 |
| SL01 4956 | 11.024 | 280 | 14.961 | 380 | 3.937 | 100 | 75.0 | 34 | 260,000 | 1150 | 610,000 | 2700 | 1000 |
| SL01 4860 | 11.811 | 300 | 14.961 | 380 | 3.150 | 80 | 50.715 | 23 | 184,000 | 820 | 470,000 | 2090 | 950 |
| SL01 4960 | 11.811 | 300 | 16.535 | 420 | 4.646 | 118 | 116.9 | 53 | 370,000 | 1650 | 850,000 | 3800 | 900 |
| SL01 4864 | 12.598 | 320 | 15.748 | 400 | 3.150 | 80 | 52.92 | 24 | 191,000 | 850 | 500,000 | 2240 | 900 |
| SL01 4964 | 12.598 | 320 | 17.323 | 440 | 4.646 | 118 | 123.5 | 56 | 385,000 | 1720 | 920,000 | 4100 | 850 |
| SL01 4868 | 13.386 | 340 | 16.535 | 420 | 3.150 | 80 | 56.228 | 25.5 | 196,000 | 870 | 530,000 | 2350 | 850 |
| SL01 4968 | 13.386 | 340 | 18.110 | 460 | 4.646 | 118 | 130.1 | 59 | 400,000 | 1770 | 970,000 | 4300 | 800 |
| SL01 4872 | 14.173 | 360 | 17.323 | 440 | 3.150 | 80 | 59.535 | 27 | 202,000 | 900 | 560,000 | 2500 | 800 |
| SL01 4972 | 14.173 | 360 | 18.898 | 480 | 4.646 | 118 | 136.9 | 62.1 | 405,000 | 1810 | 1,010,000 | 4500 | 750 |
| SL01 4876 | 14.961 | 380 | 18.898 | 480 | 3.937 | 100 | 100.328 | 45.5 | 295,000 | 1310 | 780,000 | 3450 | 750 |
| SL01 4976 | 14.961 | 380 | 20.472 | 520 | 5.512 | 140 | 203.7 | 92.4 | 510,000 | 2270 | 1,260,000 | 5600 | 700 |
| SL01 4880 | 15.748 | 400 | 19.685 | 500 | 3.937 | 100 | 102.533 | 46.5 | 300,000 | 1330 | 810,000 | 3600 | 700 |
| SL01 4980 | 15.748 | 400 | 21.260 | 540 | 5.512 | 140 | 212.8 | 96.5 | 520,000 | 2330 | 1,330,000 | 5900 | 700 |

# Cylindrical Roller Bearings

## SL11 SERIES

- Triple row
- Locating bearing
- ISO diameter series 9



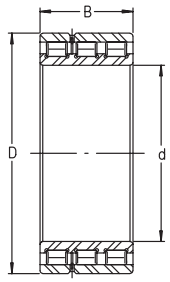

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OUTER RING OD D inch | OUTER RING OD D mm | BEARING WIDTH B inch | BEARING WIDTH B mm | WEIGHT PER PIECE lbs | WEIGHT PER PIECE kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL11 914 | 2.756 | 70 | 3.937 | 100 | 1.732 | 44 | 2.536 | 1.15 | 32,000 | 142 | 60,000 | 265 | 3800 |
| SL11 916 | 3.150 | 80 | 4.331 | 110 | 1.732 | 44 | 2.844 | 1.29 | 33,500 | 150 | 67,000 | 300 | 3400 |
| SL11 918 | 3.543 | 90 | 4.921 | 125 | 2.047 | 52 | 4.41 | 2 | 46,000 | 205 | 96,000 | 425 | 3000 |
| SL11 920 | 3.937 | 100 | 5.512 | 140 | 2.323 | 59 | 6.395 | 2.9 | 58,000 | 260 | 124,000 | 550 | 2700 |
| SL11 922 | 4.331 | 110 | 5.906 | 150 | 2.323 | 59 | 6.946 | 3.15 | 61,000 | 270 | 135,000 | 600 | 2500 |
| SL11 924 | 4.724 | 120 | 6.496 | 165 | 2.598 | 66 | 9.482 | 4.3 | 69,000 | 305 | 148,000 | 660 | 2300 |
| SL11 926 | 5.118 | 130 | 7.087 | 180 | 2.874 | 73 | 12.7 | 5.75 | 80,000 | 355 | 173,000 | 770 | 2100 |
| SL11 928 | 5.512 | 140 | 7.480 | 190 | 2.874 | 73 | 13.5 | 6.1 | 83,000 | 370 | 187,000 | 830 | 2000 |
| SL11 930 | 5.906 | 150 | 8.268 | 210 | 3.465 | 88 | 21.4 | 9.7 | 126,000 | 560 | 275,000 | 1230 | 1800 |
| SL11 932 | 6.299 | 160 | 8.661 | 220 | 3.465 | 88 | 22.5 | 10.2 | 130,000 | 580 | 300,000 | 1330 | 1700 |
| SL11 934 | 6.693 | 170 | 9.055 | 230 | 3.465 | 88 | 23.8 | 10.8 | 135,000 | 600 | 315,000 | 1390 | 1600 |
| SL11 936 | 7.087 | 180 | 9.843 | 250 | 3.976 | 101 | 34.6 | 15.7 | 175,000 | 780 | 405,000 | 1810 | 1500 |
| SL11 938 | 7.480 | 190 | 10.236 | 260 | 3.976 | 101 | 36.2 | 16.4 | 180,000 | 800 | 425,000 | 1900 | 1400 |
| SL11 940 | 7.874 | 200 | 11.024 | 280 | 4.567 | 116 | 50.3 | 22.8 | 211,000 | 940 | 500,000 | 2220 | 1400 |

# Cylindrical Roller Bearings

## SL14 SERIES

- Triple row
- Non-locating bearing
- ISO diameter series 9



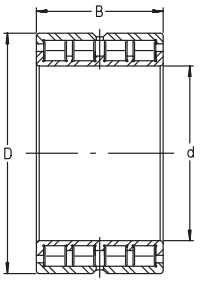

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OUTER RING OD D inch | OUTER RING OD D mm | BEARING WIDTH B inch | BEARING WIDTH B mm | WEIGHT PER PIECE lbs | WEIGHT PER PIECE kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL14 914 | 2.756 | 70 | 3.937 | 100 | 1.732 | 44 | 2.426 | 1.1 | 32,000 | 142 | 60,000 | 265 | 3800 |
| SL14 916 | 3.150 | 80 | 4.331 | 110 | 1.732 | 44 | 2.756 | 1.25 | 33,500 | 150 | 67,000 | 300 | 3400 |
| SL14 918 | 3.543 | 90 | 4.921 | 125 | 2.047 | 52 | 4.3 | 1.95 | 46,000 | 205 | 96,000 | 425 | 3000 |
| SL14 920 | 3.937 | 100 | 5.512 | 140 | 2.323 | 59 | 6.284 | 2.85 | 58,000 | 260 | 124,000 | 550 | 2700 |
| SL14 922 | 4.331 | 110 | 5.906 | 150 | 2.323 | 59 | 6.836 | 3.1 | 61,000 | 270 | 135,000 | 600 | 2500 |
| SL14 924 | 4.724 | 120 | 6.496 | 165 | 2.598 | 66 | 9.261 | 4.2 | 69,000 | 305 | 148,000 | 660 | 2300 |
| SL14 926 | 5.118 | 130 | 7.087 | 180 | 2.874 | 73 | 12.3 | 5.6 | 80,000 | 355 | 173,000 | 770 | 2100 |
| SL14 928 | 5.512 | 140 | 7.480 | 190 | 2.874 | 73 | 13.2 | 6 | 83,000 | 370 | 187,000 | 830 | 2000 |
| SL14 930 | 5.906 | 150 | 8.268 | 210 | 3.465 | 88 | 20.9 | 9.5 | 126,000 | 560 | 275,000 | 1230 | 1800 |
| SL14 932 | 6.299 | 160 | 8.661 | 220 | 3.465 | 88 | 22.1 | 10 | 130,000 | 580 | 300,000 | 1330 | 1700 |
| SL14 934 | 6.693 | 170 | 9.055 | 230 | 3.465 | 88 | 23.2 | 10.5 | 135,000 | 600 | 315,000 | 1390 | 1600 |
| SL14 936 | 7.087 | 180 | 9.843 | 250 | 3.976 | 101 | 34.2 | 15.5 | 175,000 | 780 | 405,000 | 1810 | 1500 |
| SL14 938 | 7.480 | 190 | 10.236 | 260 | 3.976 | 101 | 35.7 | 16.2 | 180,000 | 800 | 425,000 | 1900 | 1400 |
| SL14 940 | 7.874 | 200 | 11.024 | 280 | 4.567 | 116 | 49.4 | 22.4 | 211,000 | 940 | 500,000 | 2220 | 1400 |

# Cylindrical Roller Bearings

## SL12 SERIES

- Quadruple row
- Locating bearing
- ISO diameter series 9



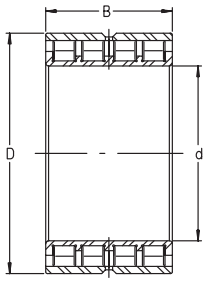

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OUTER RING OD D inch | OUTER RING OD D mm | BEARING WIDTH B inch | BEARING WIDTH B mm | WEIGHT PER PIECE lbs | WEIGHT PER PIECE kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL12 914 | 2.756 | 70 | 3.937 | 100 | 2.244 | 57 | 3.285 | 1.49 | 40,000 | 177 | 80,000 | 355 | 3800 |
| SL12 916 | 3.150 | 80 | 4.331 | 110 | 2.244 | 57 | 3.638 | 1.65 | 42,500 | 188 | 89,000 | 395 | 3400 |
| SL12 918 | 3.543 | 90 | 4.921 | 125 | 2.677 | 68 | 5.843 | 2.65 | 57,000 | 255 | 126,000 | 560 | 3000 |
| SL12 920 | 3.937 | 100 | 5.512 | 140 | 3.071 | 78 | 8.489 | 3.85 | 73,000 | 325 | 166,000 | 740 | 2700 |
| SL12 922 | 4.331 | 110 | 5.906 | 150 | 3.071 | 78 | 9.261 | 4.2 | 76,000 | 340 | 180,000 | 800 | 2500 |
| SL12 924 | 4.724 | 120 | 6.496 | 165 | 3.425 | 87 | 12.5 | 5.65 | 85,000 | 380 | 198,000 | 880 | 2300 |
| SL12 926 | 5.118 | 130 | 7.087 | 180 | 3.780 | 96 | 16.6 | 7.55 | 100,000 | 445 | 232,000 | 1030 | 2100 |
| SL12 928 | 5.512 | 140 | 7.480 | 190 | 3.780 | 96 | 17.8 | 8.05 | 103,000 | 460 | 247,000 | 1100 | 2000 |
| SL12 930 | 5.906 | 150 | 8.268 | 210 | 4.567 | 116 | 28.2 | 12.8 | 157,000 | 700 | 370,000 | 1640 | 1800 |
| SL12 932 | 6.299 | 160 | 8.661 | 220 | 4.567 | 116 | 29.8 | 13.5 | 164,000 | 730 | 400,000 | 1770 | 1700 |
| SL12 934 | 6.693 | 170 | 9.055 | 230 | 4.567 | 116 | 31.3 | 14.2 | 169,000 | 750 | 420,000 | 1860 | 1600 |
| SL12 936 | 7.087 | 180 | 9.843 | 250 | 5.236 | 133 | 45.6 | 20.7 | 218,000 | 970 | 540,000 | 2410 | 1500 |
| SL12 938 | 7.480 | 190 | 10.236 | 260 | 5.236 | 133 | 47.6 | 21.6 | 225,000 | 1000 | 570,000 | 2550 | 1400 |
| SL12 940 | 7.874 | 200 | 11.024 | 280 | 5.984 | 152 | 65.9 | 29.9 | 265,000 | 1180 | 660,000 | 2950 | 1400 |

# Cylindrical Roller Bearings

## SL15 SERIES

- Quadruple row
- Non-locating bearing
- ISO diameter series 9



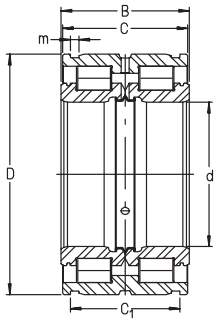

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OUTER RING OD D inch | OUTER RING OD D mm | BEARING WIDTH B inch | BEARING WIDTH B mm | WEIGHT PER PIECE lbs | WEIGHT PER PIECE kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL15 914 | 2.756 | 70 | 3.937 | 100 | 2.244 | 57 | 3.197 | 1.45 | 40,000 | 177 | 80,000 | 355 | 3800 |
| SL15 916 | 3.150 | 80 | 4.331 | 110 | 2.244 | 57 | 3.528 | 1.6 | 42,500 | 188 | 89,000 | 395 | 3400 |
| SL15 918 | 3.543 | 90 | 4.921 | 125 | 2.677 | 68 | 5.733 | 2.6 | 57,000 | 255 | 126,000 | 560 | 3000 |
| SL15 920 | 3.937 | 100 | 5.512 | 140 | 3.071 | 78 | 8.379 | 3.8 | 73,000 | 325 | 166,000 | 740 | 2700 |
| SL15 922 | 4.331 | 110 | 5.906 | 150 | 3.071 | 78 | 9.151 | 4.15 | 76,000 | 340 | 180,000 | 800 | 2500 |
| SL15 924 | 4.724 | 120 | 6.496 | 165 | 3.425 | 87 | 12.2 | 5.55 | 85,000 | 380 | 198,000 | 880 | 2300 |
| SL15 926 | 5.118 | 130 | 7.087 | 180 | 3.780 | 96 | 16.3 | 7.4 | 100,000 | 445 | 232,000 | 1030 | 2100 |
| SL15 928 | 5.512 | 140 | 7.480 | 190 | 3.780 | 96 | 17.4 | 7.9 | 103,000 | 460 | 247,000 | 1100 | 2000 |
| SL15 930 | 5.906 | 150 | 8.268 | 210 | 4.567 | 116 | 27.8 | 12.6 | 157,000 | 700 | 370,000 | 1640 | 1800 |
| SL15 932 | 6.299 | 160 | 8.661 | 220 | 4.567 | 116 | 29.8 | 13.5 | 164,000 | 730 | 400,000 | 1770 | 1700 |
| SL15 934 | 6.693 | 170 | 9.055 | 230 | 4.567 | 116 | 30.7 | 13.9 | 169,000 | 750 | 420,000 | 1860 | 1600 |
| SL15 936 | 7.087 | 180 | 9.843 | 250 | 5.236 | 133 | 45.0 | 20.4 | 218,000 | 970 | 540,000 | 2410 | 1500 |
| SL15 938 | 7.480 | 190 | 10.236 | 260 | 5.236 | 133 | 47.2 | 21.4 | 225,000 | 1000 | 570,000 | 2550 | 1400 |
| SL15 940 | 7.874 | 200 | 11.024 | 280 | 5.984 | 152 | 64.8 | 29.4 | 265,000 | 1180 | 660,000 | 2950 | 1400 |

# Cylindrical Roller Bearings

## SL04 SERIES

- Double row sheave bearings
- Single and double sealed versions are available with suffix P or PP
- Locating bearing
- External snap ring grooves
- Inner ring and outer ring oil holes



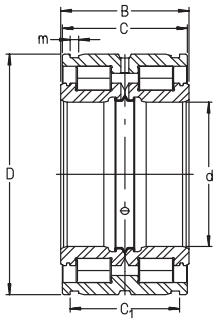

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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH INNER RING B inch | WIDTH INNER RING B mm | WIDTH OUTER RING C inch | WIDTH OUTER RING C mm | WEIGHT PER PIECE lbs | WEIGHT PER PIECE kg |
|---|---|---|---|---|---|---|---|---|---|---|
| SL04 5004 | 0.787 | 20 | 1.654 | 42 | 1.181 | 30 | 1.142 | 29 | 0.441 | 0.2 |
| SL04 5005 | 0.984 | 25 | 1.850 | 47 | 1.181 | 30 | 1.142 | 29 | 0.529 | 0.24 |
| SL04 5006 | 1.181 | 30 | 2.165 | 55 | 1.339 | 34 | 1.299 | 33 | 0.816 | 0.37 |
| SL04 5007 | 1.378 | 35 | 2.441 | 62 | 1.417 | 36 | 1.378 | 35 | 1.058 | 0.48 |
| SL04 5008 | 1.575 | 40 | 2.677 | 68 | 1.496 | 38 | 1.457 | 37 | 1.235 | 0.56 |
| SL04 5009 | 1.772 | 45 | 2.953 | 75 | 1.575 | 40 | 1.535 | 39 | 1.544 | 0.7 |
| SL04 5010 | 1.969 | 50 | 3.150 | 80 | 1.575 | 40 | 1.535 | 39 | 1.676 | 0.76 |
| SL04 5011 | 2.165 | 55 | 3.543 | 90 | 1.811 | 46 | 1.772 | 45 | 2.602 | 1.18 |
| SL04 5012 | 2.362 | 60 | 3.740 | 95 | 1.811 | 46 | 1.772 | 45 | 2.778 | 1.26 |
| SL04 5013 | 2.559 | 65 | 3.937 | 100 | 1.811 | 46 | 1.772 | 45 | 2.933 | 1.33 |
| SL04 5014 | 2.756 | 70 | 4.331 | 110 | 2.126 | 54 | 2.087 | 53 | 4.123 | 1.87 |
| SL04 5015 | 2.953 | 75 | 4.528 | 115 | 2.126 | 54 | 2.087 | 53 | 4.322 | 1.96 |
| SL04 5016 | 3.150 | 80 | 4.921 | 125 | 2.362 | 60 | 2.323 | 59 | 5.976 | 2.71 |
| SL04 5017 | 3.347 | 85 | 5.118 | 130 | 2.362 | 60 | 2.323 | 59 | 6.24 | 2.83 |
| SL04 5018 | 3.543 | 90 | 5.512 | 140 | 2.638 | 67 | 2.598 | 66 | 8.181 | 3.71 |
| SL04 5019 | 3.740 | 95 | 5.709 | 145 | 2.638 | 67 | 2.598 | 66 | 8.555 | 3.88 |
| SL04 5020 | 3.937 | 100 | 5.906 | 150 | 2.638 | 67 | 2.598 | 66 | 8.71 | 3.95 |
| SL04 5022 | 4.331 | 110 | 6.693 | 170 | 3.150 | 80 | 3.110 | 79 | 14.49 | 6.57 |
| SL04 5024 | 4.724 | 120 | 7.087 | 180 | 3.150 | 80 | 3.110 | 79 | 15.52 | 7.04 |
| SL04 130 | 5.118 | 130 | 7.48 | 190 | 3.15 | 80 | 3.11 | 79 | 16.5 | 7.5 |
| SL04 5026 | 5.118 | 130 | 7.874 | 200 | 3.740 | 95 | 3.701 | 94 | 23.15 | 10.5 |
| SL04 140 | 5.512 | 140 | 7.874 | 200 | 3.15 | 80 | 3.11 | 79 | 17.6 | 8 |
| SL04 5028 | 5.512 | 140 | 8.268 | 210 | 3.740 | 95 | 3.701 | 94 | 24.48 | 11.1 |
| SL04 150 | 5.906 | 150 | 8.268 | 210 | 3.15 | 80 | 3.11 | 79 | 18.5 | 8.4 |
| SL04 5030 | 5.906 | 150 | 8.858 | 225 | 3.937 | 100 | 3.898 | 99 | 29.33 | 13.3 |
| SL04 160 | 6.299 | 160 | 8.661 | 220 | 3.15 | 80 | 3.11 | 79 | 19.4 | 8.8 |
| SL04 5032 | 6.299 | 160 | 9.449 | 240 | 4.291 | 109 | 4.252 | 108 | 36.60 | 16.6 |
| SL04 170 | 6.693 | 170 | 9.055 | 230 | 3.15 | 80 | 3.11 | 79 | 20.5 | 9.3 |
| SL04 5034 | 6.693 | 170 | 10.236 | 260 | 4.803 | 122 | 4.764 | 121 | 49.83 | 22.6 |
| SL04 180 | 7.087 | 180 | 9.449 | 240 | 3.15 | 80 | 3.11 | 79 | 21.6 | 9.8 |
| SL04 5036 | 7.087 | 180 | 11.024 | 280 | 5.354 | 136 | 5.315 | 135 | 66.37 | 30.1 |
| SL04 190 | 7.48 | 190 | 10.236 | 260 | 3.15 | 80 | 3.11 | 79 | 28.0 | 12.7 |
| SL04 5038 | 7.480 | 190 | 11.417 | 290 | 5.354 | 136 | 5.315 | 135 | 69.46 | 31.5 |
| SL04 200 | 7.874 | 200 | 10.63 | 270 | 3.15 | 80 | 3.11 | 79 | 29.1 | 13.2 |
| SL04 5040 | 7.874 | 200 | 12.205 | 310 | 5.906 | 150 | 5.866 | 149 | 89.96 | 40.8 |
| SL04 220 | 8.661 | 220 | 11.811 | 300 | 3.74 | 95 | 3.701 | 94 | 43.0 | 19.5 |
| SL04 5044 | 8.661 | 220 | 13.386 | 340 | 6.299 | 160 | 6.260 | 159 | 115.76 | 52.5 |
| SL04 240 | 9.449 | 240 | 12.598 | 320 | 3.74 | 95 | 3.701 | 94 | 46.3 | 21 |
| SL04 5048 | 9.449 | 240 | 14.173 | 360 | 6.299 | 160 | 6.260 | 159 | 123.48 | 56 |
| SL04 260 | 10.236 | 260 | 13.386 | 340 | 3.74 | 95 | 3.701 | 94 | 49.6 | 22.5 |
| SL04 5052 | 10.236 | 260 | 15.748 | 400 | 7.480 | 190 | 7.441 | 189 | 186.32 | 84.5 |
| SL04 280 | 11.024 | 280 | 14.173 | 360 | 3.74 | 95 | 3.701 | 94 | 52.9 | 24 |
| SL04 5056 | 11.024 | 280 | 16.535 | 420 | 7.480 | 190 | 7.441 | 189 | 198.45 | 90 |
| SL04 300 | 11.811 | 300 | 14.961 | 380 | 3.74 | 95 | 3.701 | 94 | 56.2 | 25.5 |
| SL04 5060 | 11.811 | 300 | 18.110 | 460 | 8.583 | 218 | 8.504 | 216 | 277.83 | 126 |

# Cylindrical Roller Bearings

## SL04 SERIES

- Double row sheave bearings
- Single and double sealed versions are available with suffix P or PP
- Locating bearing
- External snap ring grooves
- Inner ring and outer ring oil holes



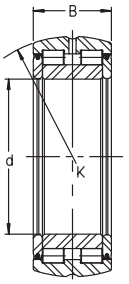

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| DYN. CAP. C lbf | DYN. CAP. C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | GROOVE $C_1$ inch | GROOVE $C_1$ mm | GROOVE WIDTH m inch | GROOVE WIDTH m mm | SNAP RING | SPEED LIMIT OIL rpm | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|---|
| 9,300 | 41.5 | 11,200 | 50 | 0.972 | 24.7 | 0.071 | 1.8 | WRE42 | 10000 | SL04 5004 |
| 10,200 | 45.5 | 13,300 | 59 | 0.972 | 24.7 | 0.071 | 1.8 | WRE47 | 9000 | SL04 5005 |
| 11,700 | 52 | 15,500 | 69 | 1.110 | 28.2 | 0.083 | 2.1 | WRE55 | 7500 | SL04 5006 |
| 14,600 | 65 | 20,200 | 90 | 1.189 | 30.2 | 0.083 | 2.1 | WRE62 | 6500 | SL04 5007 |
| 18,400 | 82 | 25,500 | 113 | 1.268 | 32.2 | 0.106 | 2.7 | WRE68 | 6000 | SL04 5008 |
| 22,000 | 98 | 31,500 | 141 | 1.347 | 34.2 | 0.106 | 2.7 | WRE75 | 5500 | SL04 5009 |
| 23,200 | 103 | 34,500 | 154 | 1.347 | 34.2 | 0.106 | 2.7 | WRE80 | 5000 | SL04 5010 |
| 26,500 | 118 | 40,500 | 180 | 1.583 | 40.2 | 0.126 | 3.2 | WRE90 | 4500 | SL04 5011 |
| 27,500 | 123 | 44,000 | 195 | 1.583 | 40.2 | 0.126 | 3.2 | WRE95 | 4200 | SL04 5012 |
| 29,000 | 128 | 47,000 | 209 | 1.583 | 40.2 | 0.126 | 3.2 | WRE100 | 3900 | SL04 5013 |
| 38,500 | 172 | 61,000 | 270 | 1.898 | 48.2 | 0.165 | 4.2 | WRE110 | 3600 | SL04 5014 |
| 44,500 | 198 | 69,000 | 305 | 1.898 | 48.2 | 0.165 | 4.2 | WRE115 | 3400 | SL04 5015 |
| 46,500 | 206 | 75,000 | 335 | 2.134 | 54.2 | 0.165 | 4.2 | WRE125 | 3200 | SL04 5016 |
| 48,500 | 215 | 81,000 | 360 | 2.134 | 54.2 | 0.165 | 4.2 | WRE130 | 3000 | SL04 5017 |
| 70,000 | 310 | 117,000 | 520 | 2.331 | 59.2 | 0.165 | 4.2 | WRE140 | 2800 | SL04 5018 |
| 71,000 | 315 | 121,000 | 540 | 2.331 | 59.2 | 0.165 | 4.2 | WRE145 | 2700 | SL04 5019 |
| 74,000 | 330 | 124,000 | 550 | 2.331 | 59.2 | 0.165 | 4.2 | WRE150 | 2600 | SL04 5020 |
| 89,000 | 395 | 153,000 | 680 | 2.764 | 70.2 | 0.165 | 4.2 | WRE170 | 2300 | SL04 5022 |
| 92,000 | 410 | 166,000 | 740 | 2.803 | 71.2 | 0.165 | 4.2 | WRE180 | 2200 | SL04 5024 |
| 96,000 | 425 | 178,000 | 790 | 2.803 | 71.2 | 0.165 | 4.2 | WRE190 | 2000 | SL04 130 |
| 124,000 | 550 | 220,000 | 980 | 3.276 | 83.2 | 0.165 | 4.2 | WRE200 | 2000 | SL04 5026 |
| 100,000 | 445 | 189,000 | 840 | 2.803 | 71.2 | 0.165 | 4.2 | WRE200 | 1900 | SL04 140 |
| 142,000 | 630 | 250,000 | 1120 | 3.276 | 83.2 | 0.205 | 5.2 | WRE210 | 1900 | SL04 5028 |
| 105,000 | 465 | 207,000 | 920 | 2.803 | 71.2 | 0.205 | 5.2 | WRE210 | 1800 | SL04 150 |
| 160,000 | 710 | 285,000 | 1270 | 3.433 | 87.2 | 0.205 | 5.2 | WRE225 | 1700 | SL04 5030 |
| 108,000 | 480 | 218,000 | 970 | 2.803 | 71.2 | 0.205 | 5.2 | WRE220 | 1700 | SL04 160 |
| 166,000 | 740 | 310,000 | 1370 | 3.748 | 95.2 | 0.205 | 5.2 | WRE240 | 1600 | SL04 5032 |
| 110,000 | 490 | 232,000 | 1030 | 2.803 | 71.2 | 0.205 | 5.2 | WRE230 | 1600 | SL04 170 |
| 216,000 | 960 | 395,000 | 1760 | 4.221 | 107.2 | 0.205 | 5.2 | WRE260 | 1500 | SL04 5034 |
| 112,000 | 500 | 243,000 | 1080 | 2.803 | 71.2 | 0.205 | 5.2 | WRE240 | 1500 | SL04 180 |
| 255,000 | 1140 | 480,000 | 2140 | 4.654 | 118.2 | 0.205 | 5.2 | WRE280 | 1400 | SL04 5036 |
| 117,000 | 520 | 260,000 | 1160 | 2.882 | 73.2 | 0.205 | 5.2 | WRE260 | 1400 | SL04 190 |
| 265,000 | 1170 | 500,000 | 2230 | 4.654 | 118.2 | 0.205 | 5.2 | WRE290 | 1400 | SL04 5038 |
| 121,000 | 540 | 270,000 | 1210 | 2.882 | 73.2 | 0.205 | 5.2 | WRE270 | 1400 | SL04 200 |
| 310,000 | 1370 | 600,000 | 2650 | 5.047 | 128.2 | 0.248 | 6.3 | WRE310 | 1300 | SL04 5040 |
| 162,000 | 720 | 355,000 | 1590 | 3.276 | 83.2 | 0.205 | 5.2 | WRE300 | 1200 | SL04 220 |
| 355,000 | 1580 | 700,000 | 3100 | 5.441 | 138.2 | 0.248 | 6.3 | WRE340 | 1200 | SL04 5044 |
| 166,000 | 740 | 385,000 | 1710 | 3.276 | 83.2 | 0.248 | 6.3 | WRE320 | 1200 | SL04 240 |
| 370,000 | 1650 | 750,000 | 3350 | 5.441 | 138.2 | 0.248 | 6.3 | WRE360 | 1100 | SL04 5048 |
| 191,000 | 850 | 450,000 | 2010 | 3.276 | 83.2 | 0.248 | 6.3 | WRE340 | 1100 | SL04 260 |
| 540,000 | 2380 | 1,060,000 | 4700 | 6.386 | 162.2 | 0.248 | 6.3 | WRE400 | 1000 | SL04 5052 |
| 196,000 | 870 | 480,000 | 2130 | 3.276 | 83.2 | 0.248 | 6.3 | WRE360 | 1000 | SL04 280 |
| 580,000 | 2600 | 1,170,000 | 5200 | 6.425 | 163.2 | 0.287 | 7.3 | WRE420 | 950 | SL04 5056 |
| 202,000 | 900 | 510,000 | 2260 | 3.276 | 83.2 | 0.248 | 6.3 | WRE380 | 950 | SL04 300 |
| 670,000 | 3000 | 1,330,000 | 5900 | 7.291 | 185.2 | 0.287 | 7.3 | WRE460 | 850 | SL04 5060 |

# Cylindrical Roller Bearings

## SL05 SERIES

- Double row
- Locating bearing
- Spherical OD for static self aligning
- Used with GG51 or FG split housings



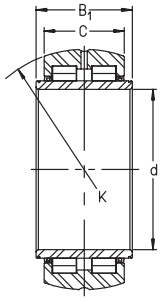

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OUTER RING OD K inch | OUTER RING OD K mm | BEARING WIDTH B inch | BEARING WIDTH B mm | WEIGHT PER PIECE lbs | WEIGHT PER PIECE kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | MATING HOUSING | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SL05 016 E | 3.150 | 80 | 4.724 | 120 | 1.772 | 45 | 3.749 | 1.7 | 38,500 | 172 | 67,000 | 300 | GG 51 120 | 1300 |
| SL05 018 E | 3.543 | 90 | 5.512 | 140 | 1.969 | 50 | 6.174 | 2.8 | 49,000 | 219 | 83,000 | 370 | GG 51 140 | 1200 |
| SL05 020 E | 3.937 | 100 | 5.906 | 150 | 2.165 | 55 | 7.277 | 3.3 | 63,000 | 280 | 110,000 | 490 | GG 51 150 | 1100 |
| SL05 022 E | 4.331 | 110 | 6.693 | 170 | 2.362 | 60 | 10.8 | 4.9 | 76,000 | 340 | 139,000 | 620 | GG 51 170 | 950 |
| SL05 024 E | 4.724 | 120 | 7.087 | 180 | 2.362 | 60 | 11.5 | 5.2 | 79,000 | 350 | 148,000 | 660 | GG 51 180 | 850 |
| SL05 026 E | 5.118 | 130 | 7.874 | 200 | 2.559 | 65 | 16.3 | 7.4 | 98,000 | 435 | 182,000 | 810 | GG 51 200 | 800 |
| SL05 028 E | 5.512 | 140 | 8.268 | 210 | 2.756 | 70 | 18.1 | 8.2 | 111,000 | 495 | 209,000 | 930 | GG 51 210 | 750 |
| SL05 030 E | 5.906 | 150 | 8.858 | 225 | 2.953 | 75 | 22.1 | 10 | 121,000 | 540 | 229,000 | 1020 | GG 51 225 | 700 |
| SL05 032 E | 6.299 | 160 | 9.449 | 240 | 3.543 | 90 | 30.2 | 13.7 | 148,000 | 660 | 285,000 | 1260 | GG 51 240 | 650 |
| SL05 034 E | 6.693 | 170 | 10.236 | 260 | 3.740 | 95 | 38.4 | 17.4 | 171,000 | 760 | 320,000 | 1420 | GG 51 260 | 600 |
| SL05 036 E | 7.087 | 180 | 11.024 | 280 | 3.937 | 100 | 48.7 | 22.1 | 178,000 | 790 | 340,000 | 1520 | GG 51 280 | 550 |
| SL05 038 E | 7.480 | 190 | 11.417 | 290 | 4.331 | 110 | 55.3 | 25.1 | 214,000 | 950 | 415,000 | 1850 | GG 51 290 | 550 |
| SL05 040 E | 7.874 | 200 | 12.205 | 310 | 4.528 | 115 | 67.3 | 30.5 | 241,000 | 1070 | 465,000 | 2060 | GG 51 310 | 500 |
| SL05 044 E | 8.661 | 220 | 13.386 | 340 | 4.921 | 125 | 88.2 | 40 | 285,000 | 1260 | 550,000 | 2440 | GG 51 340 | 460 |
| SL05 048 E | 9.449 | 240 | 14.173 | 360 | 5.118 | 130 | 97.0 | 44 | 295,000 | 1310 | 580,000 | 2600 | GG 51 360 | 430 |

# Cylindrical Roller Bearings

## SL06 SERIES

- Double row
- Non-locating bearing
- Spherical OD for static self aligning
- Used with GG51 or FG split housings




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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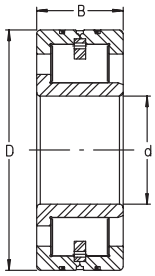
| PART NUMBER | SHAFT d inch | SHAFT d mm | OD K inch | OD K mm | WIDTH B1 inch | WIDTH B1 mm | OUTER RING WIDTH C inch | OUTER RING WIDTH C mm | WEIGHT PER PIECE lbs | WEIGHT PER PIECE kg |
|---|---|---|---|---|---|---|---|---|---|---|
| SL06 016 E | 3.150 | 80 | 4.724 | 120 | 2.165 | 55 | 1.772 | 45 | 3.969 | 1.8 |
| SL06 018 E | 3.543 | 90 | 5.512 | 140 | 2.362 | 60 | 1.969 | 50 | 6.505 | 2.95 |
| SL06 020 E | 3.937 | 100 | 5.906 | 150 | 2.559 | 65 | 2.165 | 55 | 7.607 | 3.45 |
| SL06 022 E | 4.331 | 110 | 6.693 | 170 | 2.953 | 75 | 2.362 | 60 | 11.5 | 5.2 |
| SL06 024 E | 4.724 | 120 | 7.087 | 180 | 2.953 | 75 | 2.362 | 60 | 12.1 | 5.5 |
| SL06 026 E | 5.118 | 130 | 7.874 | 200 | 3.150 | 80 | 2.559 | 65 | 17.2 | 7.8 |
| SL06 028 E | 5.512 | 140 | 8.268 | 210 | 3.347 | 85 | 2.756 | 70 | 18.9 | 8.55 |
| SL06 030 E | 5.906 | 150 | 8.858 | 225 | 3.543 | 90 | 2.953 | 75 | 23.2 | 10.5 |
| SL06 032 E | 6.299 | 160 | 9.449 | 240 | 4.331 | 110 | 3.543 | 90 | 31.5 | 14.3 |
| SL06 034 E | 6.693 | 170 | 10.236 | 260 | 4.528 | 115 | 3.740 | 95 | 39.9 | 18.1 |
| SL06 036 E | 7.087 | 180 | 11.024 | 280 | 4.724 | 120 | 3.937 | 100 | 50.7 | 23 |
| SL06 038 E | 7.480 | 190 | 11.417 | 290 | 5.315 | 135 | 4.331 | 110 | 58.4 | 26.5 |
| SL06 040 E | 7.874 | 200 | 12.205 | 310 | 5.512 | 140 | 4.528 | 115 | 70.6 | 32 |
| SL06 044 E | 8.661 | 220 | 13.386 | 340 | 5.906 | 150 | 4.921 | 125 | 92.6 | 42 |
| SL06 048 E | 9.449 | 240 | 14.173 | 360 | 6.102 | 155 | 5.118 | 130 | 101.4 | 46 |

**CONTINUED FROM ABOVE**

| PART NUMBER | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | AXIAL PLAY s inch | AXIAL PLAY s mm | MATING HOUSING | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|
| SL06 016 E | 38,500 | 172 | 67,000 | 300 | 0.098 | 2.5 | GG51120 | 1300 |
| SL06 018 E | 49,000 | 219 | 83,000 | 370 | 0.098 | 2.5 | GG51140 | 1200 |
| SL06 020 E | 63,000 | 280 | 110,000 | 490 | 0.098 | 2.5 | GG51150 | 1100 |
| SL06 022 E | 76,000 | 340 | 139,000 | 620 | 0.197 | 5 | GG51170 | 950 |
| SL06 024 E | 79,000 | 350 | 148,000 | 660 | 0.197 | 5 | GG51180 | 850 |
| SL06 026 E | 98,000 | 435 | 182,000 | 810 | 0.197 | 5 | GG51200 | 800 |
| SL06 028 E | 111,000 | 495 | 209,000 | 930 | 0.197 | 5 | GG51210 | 750 |
| SL06 030 E | 121,000 | 540 | 229,000 | 1020 | 0.197 | 5 | GG51225 | 700 |
| SL06 032 E | 148,000 | 660 | 285,000 | 1260 | 0.295 | 7.5 | GG51240 | 650 |
| SL06 034 E | 171,000 | 760 | 320,000 | 1420 | 0.295 | 7.5 | GG51260 | 600 |
| SL06 036 E | 178,000 | 790 | 340,000 | 1520 | 0.295 | 7.5 | GG51280 | 550 |
| SL06 038 E | 214,000 | 950 | 415,000 | 1850 | 0.394 | 10 | GG51290 | 550 |
| SL06 040 E | 241,000 | 1070 | 465,000 | 2060 | 0.394 | 10 | GG51310 | 500 |
| SL06 044 E | 285,000 | 1260 | 550,000 | 2440 | 0.394 | 10 | GG51340 | 460 |
| SL06 048 E | 295,000 | 1310 | 580,000 | 2600 | 0.394 | 10 | GG51360 | 430 |

# Cylindrical Roller Bearings
## LSL SERIES

- Semi-locating single row
- With brass disk separator
- Reduced friction
- Increased speed limit

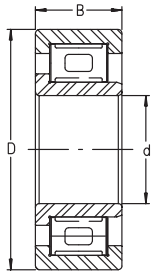



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LSL19 2320 | 3.937 | 100 | 8.465 | 215 | 2.874 | 73 | 28.2 | 12.8 | 151,000 | 670 | 180,000 | 800 | 6500 |
| LSL19 2322 | 4.331 | 110 | 9.449 | 240 | 3.150 | 80 | 38.1 | 17.3 | 178,000 | 790 | 211,000 | 940 | 5600 |
| LSL19 2324 | 4.724 | 120 | 10.236 | 260 | 3.386 | 86 | 48.5 | 22 | 214,000 | 950 | 260,000 | 1150 | 5300 |
| LSL19 2326 | 5.118 | 130 | 11.024 | 280 | 3.661 | 93 | 60.0 | 27.2 | 241,000 | 1070 | 290,000 | 1300 | 4900 |
| LSL19 2328 | 5.512 | 140 | 11.811 | 300 | 4.016 | 102 | 75.0 | 34 | 270,000 | 1200 | 330,000 | 1470 | 4600 |
| LSL19 2330 | 5.906 | 150 | 12.598 | 320 | 4.252 | 108 | 89.7 | 40.7 | 320,000 | 1420 | 400,000 | 1780 | 4200 |
| LSL19 2332 | 6.299 | 160 | 13.386 | 340 | 4.488 | 114 | 106.0 | 48.05 | 360,000 | 1600 | 455,000 | 2020 | 3900 |
| LSL19 2334 | 6.693 | 170 | 14.173 | 360 | 4.724 | 120 | 126.8 | 57.5 | 390,000 | 1740 | 500,000 | 2230 | 3800 |
| LSL19 2336 | 7.087 | 180 | 14.961 | 380 | 4.961 | 126 | 148.6 | 67.4 | 415,000 | 1850 | 550,000 | 2440 | 3500 |
| LSL19 2338 | 7.480 | 190 | 15.748 | 400 | 5.197 | 132 | 172.2 | 78.1 | 500,000 | 2230 | 660,000 | 2950 | 3400 |
| LSL19 2340 | 7.874 | 200 | 16.535 | 420 | 5.433 | 138 | 196.9 | 89.3 | 530,000 | 2340 | 690,000 | 3050 | 3200 |
| LSL19 2344 | 8.661 | 220 | 18.110 | 460 | 5.709 | 145 | 238.1 | 108 | 560,000 | 2500 | 720,000 | 3200 | 2900 |
| LSL19 2348 | 9.449 | 240 | 19.685 | 500 | 6.102 | 155 | 305.6 | 138.6 | 620,000 | 2750 | 800,000 | 3550 | 2700 |
| LSL19 2352 | 10.236 | 260 | 21.260 | 540 | 6.496 | 165 | 370.4 | 168 | 760,000 | 3400 | 990,000 | 4400 | 2400 |
| LSL19 2356 | 11.024 | 280 | 22.835 | 580 | 6.890 | 175 | 455.6 | 206.6 | 830,000 | 3700 | 1,090,000 | 4850 | 2300 |
| LSL19 2360 | 11.811 | 300 | 24.409 | 620 | 7.284 | 185 | 557.9 | 253 | 940,000 | 4200 | 1,260,000 | 5600 | 2200 |

# Cylindrical Roller Bearings
## ZSL SERIES

- Semi-locating single row
- With plastic roller separators
- Reduced friction
- Increased speed limit

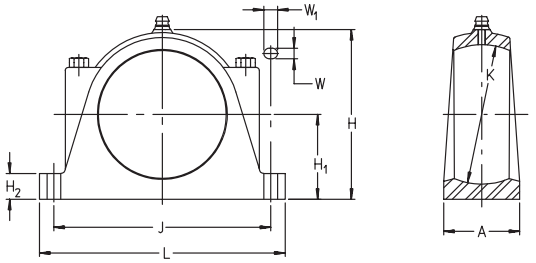



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
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| PART NUMBER | SHAFT d inch | SHAFT d mm | OD D inch | OD D mm | WIDTH B inch | WIDTH B mm | WEIGHT lbs | WEIGHT kg | DYN. CAP. C lbf | DYN. CAP C kN | STAT. CAP. $C_0$ lbf | STAT. CAP. $C_0$ kN | SPEED LIMIT OIL rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ZSL19 2305 | 0.984 | 25 | 2.441 | 62 | 0.945 | 24 | 0.794 | 0.36 | 13,700 | 61 | 12,400 | 55 | 16000 |
| ZSL19 2306 | 1.181 | 30 | 2.835 | 72 | 1.063 | 27 | 1.213 | 0.55 | 18,900 | 84 | 18,200 | 81 | 14000 |
| ZSL19 2307 | 1.378 | 35 | 3.150 | 80 | 1.221 | 31 | 1.588 | 0.72 | 23,800 | 106 | 23,400 | 104 | 12000 |
| ZSL19 2308 | 1.575 | 40 | 3.543 | 90 | 1.299 | 33 | 2.205 | 1 | 32,000 | 143 | 32,500 | 144 | 11000 |
| ZSL19 2309 | 1.772 | 45 | 3.937 | 100 | 1.417 | 36 | 2.955 | 1.34 | 34,500 | 153 | 36,000 | 160 | 10000 |
| ZSL19 2310 | 1.969 | 50 | 4.331 | 110 | 1.575 | 40 | 3.881 | 1.76 | 44,000 | 196 | 45,500 | 202 | 9000 |
| ZSL19 2311 | 2.165 | 55 | 4.724 | 120 | 1.693 | 43 | 4.895 | 2.22 | 51,000 | 228 | 53,000 | 236 | 80000 |
| ZSL19 2312 | 2.362 | 60 | 5.118 | 130 | 1.811 | 46 | 6.218 | 2.82 | 55,000 | 244 | 58,000 | 260 | 7400 |
| ZSL19 2313 | 2.559 | 65 | 5.512 | 140 | 1.890 | 48 | 7.585 | 3.44 | 67,000 | 300 | 74,000 | 330 | 6800 |
| ZSL19 2314 | 2.756 | 70 | 5.906 | 150 | 2.008 | 51 | 9.415 | 4.27 | 73,000 | 325 | 81,000 | 360 | 6400 |
| ZSL19 2315 | 2.953 | 75 | 6.299 | 160 | 2.165 | 55 | 11.466 | 5.2 | 88,000 | 390 | 99,000 | 440 | 6000 |
| ZSL19 2316 | 3.150 | 80 | 6.693 | 170 | 2.284 | 58 | 13.671 | 6.2 | 101,000 | 450 | 115,000 | 510 | 5600 |
| ZSL19 2317 | 3.347 | 85 | 7.087 | 180 | 2.362 | 60 | 15.942 | 7.23 | 109,000 | 485 | 128,000 | 570 | 5300 |
| ZSL19 2318 | 3.543 | 90 | 7.480 | 190 | 2.520 | 64 | 19.184 | 8.7 | 119,000 | 530 | 137,000 | 610 | 5000 |
| ZSL19 2319 | 3.740 | 95 | 7.874 | 200 | 2.638 | 67 | 22.050 | 10 | 126,000 | 560 | 151,000 | 670 | 4800 |
| ZSL19 2320 | 3.937 | 100 | 8.465 | 215 | 2.874 | 73 | 28.004 | 12.7 | 151,000 | 670 | 180,000 | 800 | 4400 |
| ZSL19 2322 | 4.331 | 110 | 9.449 | 240 | 3.150 | 80 | 36.383 | 16.5 | 180,000 | 800 | 205,000 | 910 | 4000 |
| ZSL19 2324 | 4.724 | 120 | 10.236 | 260 | 3.386 | 86 | 48.290 | 21.9 | 214,000 | 950 | 260,000 | 1150 | 3700 |

# Pillow Block Housings
## GG SERIES

- Split design
- For aligning cylindrical roller bearings (Series SL05 & SL06)

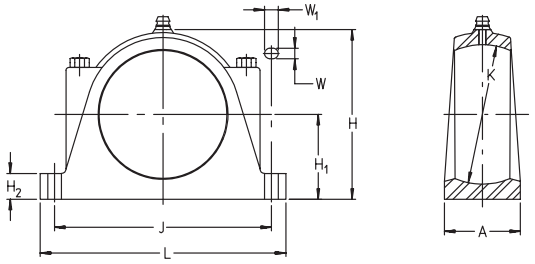



For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | K mm | H inch | H mm | L inch | L mm | A inch | A mm | WGT. lbs | WGT. kg | $H_1$ inch | $H_1$ mm |
|---|---|---|---|---|---|---|---|---|---|---|---|
| GG 51 120 | 120 | 5.591 | 142 | 10.236 | 260 | 2.756 | 70 | 9.482 | 4.3 | 2.756 | 70 |
| GG 51 140 | 140 | 6.89 | 175 | 11.417 | 290 | 3.15 | 80 | 16.097 | 7.3 | 3.543 | 90 |
| GG 51 150 | 150 | 7.283 | 185 | 12.992 | 330 | 3.346 | 85 | 20.507 | 9.3 | 3.74 | 95 |
| GG 51 170 | 170 | 8.189 | 208 | 13.78 | 350 | 3.543 | 90 | 24.917 | 11.3 | 4.134 | 105 |
| GG 51 180 | 180 | 8.661 | 220 | 14.173 | 360 | 3.543 | 90 | 27.563 | 12.5 | 4.331 | 110 |
| GG 51 200 | 200 | 9.646 | 245 | 16.535 | 420 | 4.528 | 115 | 45.203 | 20.5 | 4.921 | 125 |
| GG 51 210 | 210 | 10.039 | 255 | 17.323 | 440 | 4.724 | 120 | 51.377 | 23.3 | 5.118 | 130 |
| GG 51 225 | 225 | 10.827 | 275 | 18.11 | 460 | 5.118 | 130 | 63.945 | 29 | 5.512 | 140 |
| GG 51 240 | 240 | 11.614 | 295 | 18.701 | 475 | 5.512 | 140 | 76.293 | 34.6 | 5.906 | 150 |
| GG 51 260 | 260 | 12.795 | 325 | 20.669 | 525 | 5.906 | 150 | 94.815 | 43 | 6.299 | 160 |
| GG 51 280 | 280 | 13.78 | 350 | 21.26 | 540 | 6.299 | 160 | 110.25 | 50 | 6.89 | 175 |
| GG 51 290 | 290 | 14.173 | 360 | 22.638 | 575 | 6.693 | 170 | 132.3 | 60 | 7.087 | 180 |
| GG 51 310 | 310 | 14.961 | 380 | 23.819 | 605 | 7.087 | 180 | 152.145 | 69 | 7.48 | 190 |
| GG 51 340 | 340 | 16.339 | 415 | 25.197 | 640 | 7.48 | 190 | 171.99 | 78 | 8.268 | 210 |
| GG 51 360 | 360 | 17.52 | 445 | 26.378 | 670 | 8.268 | 210 | 207.27 | 94 | 9.055 | 230 |

# Pillow Block Housings
## GG SERIES

- Split design
- For aligning cylindrical roller bearings (Series SL05 & SL06)




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| $H_2$ inch | $H_2$ mm | J inch | J mm | $J_1$* mm | W mm | $W_1$ mm | LOCATING PART NUMBER | NON-LOCATING PART NUMBER | PART NUMBER |
|---|---|---|---|---|---|---|---|---|---|
| 0.984 | 25 | 8.661 | 220 | – | 18 | 21 | SL05 016E | SL06 016E | GG 51 120 |
| 1.181 | 30 | 9.646 | 245 | – | 18 | 21 | SL05 018E | SL06 018E | GG 51 140 |
| 1.575 | 40 | 11.024 | 280 | – | 22 | 26 | SL05 020E | SL06 020E | GG 51 150 |
| 1.772 | 45 | 11.811 | 300 | – | 22 | 26 | SL05 022E | SL06 022E | GG 51 170 |
| 1.772 | 45 | 12.205 | 310 | – | 22 | 26 | SL05 024E | SL06 024E | GG 51 180 |
| 1.969 | 50 | 14.173 | 360 | – | 26 | 32 | SL05 026E | SL06 026E | GG 51 200 |
| 1.969 | 50 | 14.764 | 375 | – | 26 | 32 | SL05 028E | SL06 028E | GG 51 210 |
| 2.362 | 60 | 15.354 | 390 | – | 26 | 32 | SL05 030E | SL06 030E | GG 51 225 |
| 2.362 | 60 | 15.945 | 405 | – | 26 | 32 | SL05 032E | SL06 032E | GG 51 240 |
| 2.362 | 60 | 17.52 | 445 | – | 35 | 40 | SL05 034E | SL06 034E | GG 51 260 |
| 2.559 | 65 | 18.11 | 460 | – | 35 | 40 | SL05 036E | SL06 036E | GG 51 280 |
| 2.559 | 65 | 19.488 | 495 | – | 35 | 40 | SL05 038E | SL06 038E | GG 51 290 |
| 2.756 | 70 | 20.472 | 520 | – | 35 | 40 | SL05 040E | SL06 040E | GG 51 310 |
| 2.756 | 70 | 21.654 | 550 | 115 | 35 | 45 | SL05 044E | SL06 044E | GG 51 340 |
| 2.953 | 75 | 22.638 | 575 | 130 | 35 | 45 | SL05 048E | SL06 048E | GG 51 360 |

* Spacing for 4 hole mounting

# NOTES

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## ROLLER CLUTCHES


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| HFZ..KF | INCH DRAWN SHELL ROLLER CLUTCH WITH PLASTIC SPRINGS | 348 |
| HFL | METRIC DRAWN SHELL ROLLER CLUTCH AND BEARING WITH STEEL SPRINGS | 349 |
| HFL..KF | METRIC DRAWN SHELL ROLLER CLUTCH AND BEARING WITH PLASTIC SPRINGS | 349 |
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# General Information
## ROLLER CLUTCHES

### PRODUCT DESCRIPTION

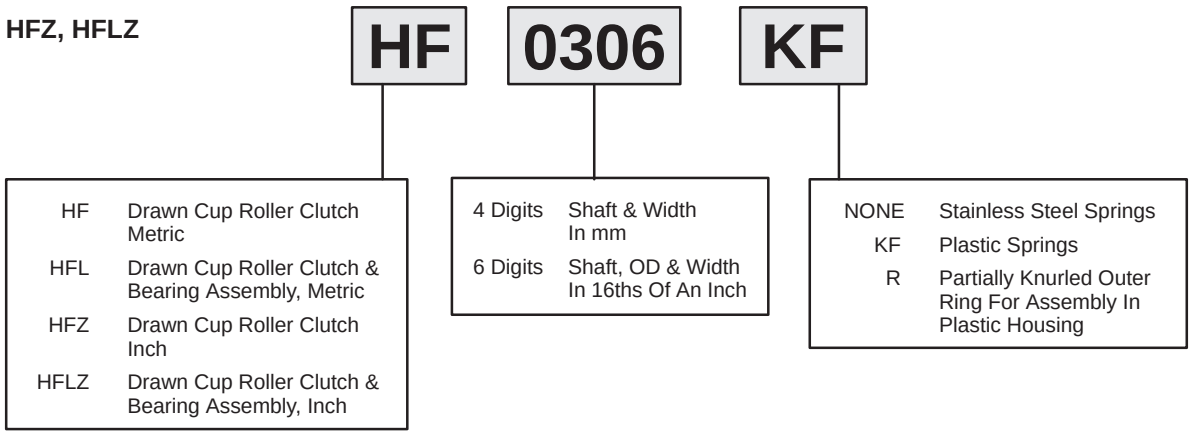
**INA Drawn Shell Roller Clutches**

- Designed with a deep drawn shell for minimal radial cross section
- Allows backstopping, indexing and free wheeling of shafts relative to housings
- Available in inch and metric shaft sizes
- Available with stainless steel or integral plastic springs
- Available with partial knurls on the OD for holding in plastic housings
- Available with integral bearings to accept radial loads

# Part Number Identification
## ROLLER CLUTCHES

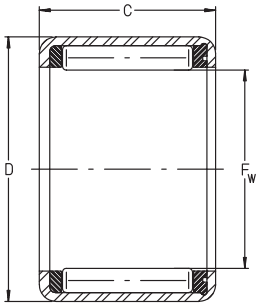
### DRAWN CUP ROLLER CLUTCHES AND BEARING ASSEMBLIES

**HF, HFL, HFZ, HFLZ**



# Drawn Cup Roller Clutches

## HF, HF..KF, HFZ, HFZ..KF SERIES




- Inch and metric
- Small radial cross sections – match shell bearings
- Transmit torque in one direction
- Overrun in opposite direction
- Accepts no radial loads
- Plastic cage with stainless steel springs
- Plastic cage and springs – suffix KF

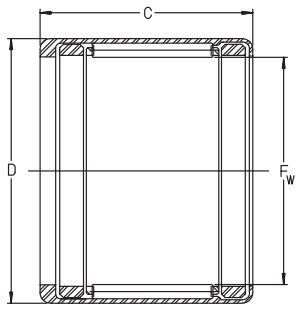
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WEIGHT lbs | WEIGHT g | TORQUE LIMIT in-lbf | TORQUE LIMIT Nm | SPEED LIMIT OUTER rpm | SPEED LIMIT SHAFT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HF 0306 KF | 0.118 | 3 | 0.256 | 6.5 | 0.236 | 6 | 0.002 | 1 | 1.6 | 0.18 | 8000 | 45000 |
| HF 0406 KF | 0.157 | 4 | 0.315 | 8 | 0.236 | 6 | 0.002 | 1 | 3.1 | 0.34 | 8000 | 34000 |
| HF 0612 | 0.236 | 6 | 0.394 | 10 | 0.472 | 12 | 0.007 | 3 | 15.8 | 1.76 | 13000 | 23000 |
| HF 0612 KF | 0.236 | 6 | 0.394 | 10 | 0.472 | 12 | 0.007 | 3 | 15.8 | 1.76 | 13000 | 23000 |
| HFZ 040708 | 0.25 | 6.35 | 0.438 | 11.112 | 0.5 | 12.7 | 0.009 | 4 | 18.6 | 2.1 | 12000 | 21000 |
| HFZ 040708 KF | 0.25 | 6.35 | 0.438 | 11.112 | 0.5 | 12.7 | 0.009 | 4 | 18.6 | 2.1 | 12000 | 21000 |
| HF 0812 | 0.315 | 8 | 0.472 | 12 | 0.472 | 12 | 0.008 | 3.5 | 28.3 | 3.15 | 12000 | 17000 |
| HF 0812 KF | 0.315 | 8 | 0.472 | 12 | 0.472 | 12 | 0.008 | 3.5 | 28.3 | 3.15 | 12000 | 17000 |
| HFZ 061008 | 0.375 | 9.525 | 0.625 | 15.875 | 0.5 | 12.7 | 0.021 | 9.7 | 50.4 | 5.7 | 12000 | 14000 |
| HF 1012 | 0.394 | 10 | 0.551 | 14 | 0.472 | 12 | 0.009 | 4 | 47.6 | 5.3 | 11000 | 14000 |
| HF 1012 KF | 0.394 | 10 | 0.551 | 14 | 0.472 | 12 | 0.009 | 4 | 47.6 | 5.3 | 11000 | 14000 |
| HF 1216 | 0.472 | 12 | 0.709 | 18 | 0.63 | 16 | 0.024 | 11 | 110 | 12.2 | 8000 | 11000 |
| HFZ 081208 | 0.5 | 12.7 | 0.75 | 19.05 | 0.5 | 12.7 | 0.021 | 9.7 | 85.9 | 9.7 | 9000 | 11000 |
| HF 1416 | 0.551 | 14 | 0.787 | 20 | 0.63 | 16 | 0.029 | 13 | 155 | 17.3 | 8000 | 9500 |
| HFZ 101410 | 0.625 | 15.875 | 0.875 | 22.225 | 0.625 | 15.875 | 0.033 | 15 | 175.2 | 19.8 | 5000 | 8500 |
| HF 1616 | 0.63 | 16 | 0.866 | 22 | 0.63 | 16 | 0.031 | 14 | 184 | 20.5 | 7500 | 8500 |
| HF 1816 | 0.709 | 18 | 0.945 | 24 | 0.63 | 16 | 0.035 | 16 | 217 | 24.1 | 7500 | 7500 |
| HF 2016 | 0.787 | 20 | 1.024 | 26 | 0.63 | 16 | 0.037 | 17 | 256 | 28.5 | 6500 | 7000 |
| HF 2520 | 0.984 | 25 | 1.26 | 32 | 0.787 | 20 | 0.066 | 30 | 593 | 66 | 5500 | 5500 |
| HFZ 162110 | 1 | 25.4 | 1.313 | 33.35 | 0.625 | 15.875 | 0.066 | 30 | 442.5 | 50 | 3000 | 5000 |
| HF 3020 | 1.181 | 30 | 1.457 | 37 | 0.787 | 20 | 0.079 | 36 | 809 | 90 | 4500 | 4500 |
| HF 3520 | 1.378 | 35 | 1.654 | 42 | 0.787 | 20 | 0.088 | 40 | 1087 | 121 | 3900 | 3900 |

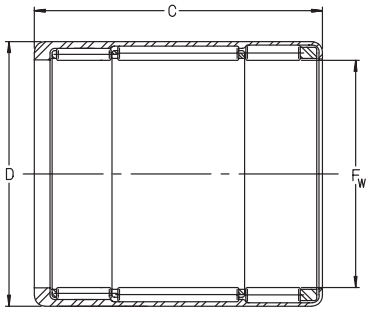
# Drawn Cup Roller Clutch And Bearing Assemblies

## HFL, HFL..KF, HFLZ SERIES

- With bearing supports
- Inch and metric
- Accepts radial loads
- Plastic cage with stainless steel springs
- Plastic cage and springs – suffix KF




HFL, HFL..KF PLAIN BEARINGS




HFLZ, HFL, HFL..KF ROLLER BEARINGS

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

**PLAIN BEARING SUPPORT**

| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WEIGHT lbs | WEIGHT g | TORQUE LIMIT in-lbf | TORQUE LIMIT Nm | LOAD LIMIT lbf | LOAD LIMIT N | LOAD SPEED LIMIT lbf/min | LOAD SPEED LIMIT N/min | SPEED LIMIT OUTER rpm | SPEED LIMIT SHAFT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HFL 0308 KF | 0.118 | 3 | 0.256 | 6.5 | 0.315 | 8 | 0.003 | 1.4 | 1.59 | 0.18 | 13 | 60 | 3600 | 16000 | 8000 | 45000 |
| HFL 0408 KF | 0.157 | 4 | 0.315 | 8 | 0.315 | 8 | 0.004 | 1.6 | 3.01 | 0.34 | 18 | 80 | 3600 | 16000 | 8000 | 34000 |
| HFL 0615 KF | 0.236 | 6 | 0.394 | 10 | 0.591 | 15 | 0.009 | 4 | 15.58 | 1.76 | 25 | 110 | 4050 | 18000 | 13000 | 23000 |
| HFL 0615 | 0.236 | 6 | 0.394 | 10 | 0.591 | 15 | 0.009 | 4 | 15.58 | 1.76 | 25 | 110 | 4050 | 18000 | 13000 | 23000 |

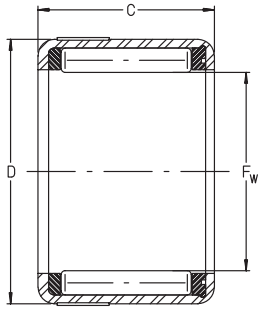
**ROLLING ELEMENT BEARING SUPPORT**

| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WEIGHT lbs | WEIGHT g | TORQUE LIMIT in-lbf | TORQUE LIMIT Nm | DYN. CAP. lbf | DYN. CAP. N | STAT. CAP. lbf | STAT. CAP. N | SPEED LIMIT OUTER rpm | SPEED LIMIT SHAFT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HFL 0822 KF | 0.315 | 8 | 0.472 | 12 | 0.866 | 22 | 0.015 | 7 | 27.9 | 3.15 | 910 | 4050 | 930 | 4150 | 12000 | 17000 |
| HFL 0822 | 0.315 | 8 | 0.472 | 12 | 0.866 | 22 | 0.015 | 7 | 27.9 | 3.15 | 910 | 4050 | 930 | 4150 | 12000 | 17000 |
| HFLZ 061014 | 0.375 | 9.525 | 0.625 | 15.875 | 0.875 | 22.225 | 0.031 | 14 | 50.4 | 5.7 | 1350 | 6000 | 1240 | 5500 | 12000 | 14000 |
| HFL 1022 KF | 0.394 | 10 | 0.551 | 14 | 0.866 | 22 | 0.018 | 8 | 46.9 | 5.3 | 970 | 4300 | 1050 | 4650 | 11000 | 14000 |
| HFL 1022 | 0.394 | 10 | 0.551 | 14 | 0.866 | 22 | 0.018 | 8 | 46.9 | 5.3 | 970 | 4300 | 1050 | 4650 | 11000 | 14000 |
| HFL 1226 | 0.472 | 12 | 0.709 | 18 | 1.024 | 26 | 0.04 | 18 | 108 | 12.2 | 1420 | 6300 | 1460 | 6500 | 8000 | 11000 |
| HFLZ 081214 | 0.5 | 12.7 | 0.75 | 19.05 | 0.875 | 22.225 | 0.038 | 17 | 85.9 | 9.7 | 1480 | 6600 | 1550 | 6900 | 9000 | 11000 |
| HFL 1426 | 0.551 | 14 | 0.787 | 20 | 1.024 | 26 | 0.044 | 20 | 153 | 17.3 | 1600 | 7100 | 1730 | 7700 | 8000 | 9500 |
| HFLZ 101416 | 0.625 | 15.875 | 0.875 | 22.225 | 1 | 25.4 | 0.051 | 23 | 175.2 | 19.8 | 1720 | 7700 | 1890 | 8400 | 5000 | 8500 |
| HFL 1626 | 0.63 | 16 | 0.866 | 22 | 1.024 | 26 | 0.049 | 22 | 181 | 20.5 | 1730 | 7700 | 2020 | 9000 | 7500 | 8500 |
| HFL 1826 | 0.709 | 18 | 0.945 | 24 | 1.024 | 26 | 0.055 | 25 | 213 | 24.1 | 1870 | 8300 | 2320 | 10300 | 7500 | 7500 |
| HFL 2026 | 0.787 | 20 | 1.024 | 26 | 1.024 | 26 | 0.06 | 27 | 252 | 28.5 | 2000 | 8900 | 2590 | 11500 | 6500 | 7000 |
| HFL 2530 | 0.984 | 25 | 1.26 | 32 | 1.181 | 30 | 0.097 | 44 | 584 | 66 | 2450 | 10900 | 3170 | 14100 | 5500 | 5500 |
| HFL 3030 | 1.181 | 30 | 1.457 | 37 | 1.181 | 30 | 0.112 | 51 | 797 | 90 | 2830 | 12600 | 3960 | 17600 | 4500 | 4500 |
| HFL 3530 | 1.378 | 35 | 1.654 | 42 | 1.181 | 30 | 0.128 | 58 | 1071 | 121 | 2920 | 13000 | 4340 | 19300 | 3900 | 3900 |

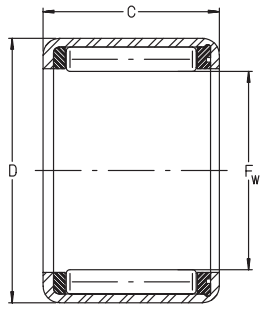
# Drawn Cup Roller Clutches

## HF..R, HF..KF, HF..KFR SERIES

- Knurled OD for use with plastic housings – suffix R
- Metric
- Accepts no radial loads
- Plastic cage with stainless steel springs
- Plastic cage and springs – suffix KF




HF..R, HF..KFR




HF..KF

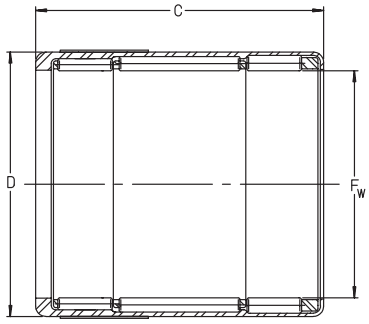
For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WEIGHT lbs | WEIGHT g | TORQUE LIMIT in-lbf | TORQUE LIMIT Nm | SPEED LIMIT OUTER rpm | SPEED LIMIT SHAFT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HF 0306 KFR | 0.118 | 3 | 0.256 | 6.5 | 0.236 | 6 | 0.002 | 1 | 0.53 | 0.06 | 8000 | 45000 |
| HF 0406 KFR | 0.157 | 4 | 0.315 | 8 | 0.236 | 6 | 0.002 | 1 | 0.89 | 0.1 | 8000 | 34000 |
| HF 0606 KF | 0.236 | 6 | 0.394 | 10 | 0.236 | 6 | 0.002 | 1 | 4.43 | 0.5 | 13000 | 23000 |
| HF 0612 KFR | 0.236 | 6 | 0.394 | 10 | 0.472 | 12 | 0.007 | 3 | 4.43 | 0.5 | 13000 | 23000 |
| HF 0612 R | 0.236 | 6 | 0.394 | 10 | 0.472 | 12 | 0.007 | 3 | 4.43 | 0.5 | 13000 | 23000 |
| HF 0812 KFR | 0.315 | 8 | 0.472 | 12 | 0.472 | 12 | 0.008 | 3.5 | 8.9 | 1 | 12000 | 17000 |
| HF 0812 R | 0.315 | 8 | 0.472 | 12 | 0.472 | 12 | 0.008 | 3.5 | 8.9 | 1 | 12000 | 17000 |
| HF 1012 KFR | 0.394 | 10 | 0.551 | 14 | 0.472 | 12 | 0.009 | 4 | 13.3 | 1.5 | 11000 | 14000 |
| HF 1012 R | 0.394 | 10 | 0.551 | 14 | 0.472 | 12 | 0.009 | 4 | 13.3 | 1.5 | 11000 | 14000 |

# Drawn Cup Roller Clutch And Bearing Assemblies

## HFL..R, HFL..KFR SERIES

- With bearing support
- Knurled OD for use with plastic housings – suffix R
- Metric
- Plastic cage with stainless steel springs
- Plastic cage and springs – suffix KF




**NARROW SERIES**
**HAS ONE BEARING SUPPORT**

For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT $F_w$ inch | SHAFT $F_w$ mm | OD D inch | OD D mm | WIDTH C inch | WIDTH C mm | WEIGHT lbs | WEIGHT g | TORQUE LIMIT in-lbf | TORQUE LIMIT Nm | LOAD LIMIT lbf | LOAD LIMIT N | LOAD SPEED LIMIT lbf/min | LOAD SPEED LIMIT N/min | SPEED LIMIT OUTER rpm | SPEED LIMIT SHAFT rpm |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HFL 0308 KFR | 0.118 | 3 | 0.256 | 6.5 | 0.315 | 8 | 0.003 | 1.4 | 0.53 | 0.06 | 13.5 | 60 | 3600 | 16000 | 8000 | 45000 |
| HFL 0408 KFR | 0.157 | 4 | 0.315 | 8 | 0.315 | 8 | 0.004 | 1.6 | 0.89 | 0.1 | 18 | 80 | 3600 | 16000 | 8000 | 34000 |
| HFL 0606 KFR | 0.236 | 6 | 0.394 | 10 | 0.236 | 6 | 0.004 | 1.6 | 4.43 | 0.5 | 9 | 40 | 940 | 4200 | 13000 | 23000 |
| HFL 0615 KFR | 0.236 | 6 | 0.394 | 10 | 0.591 | 15 | 0.009 | 4 | 4.43 | 0.5 | 24.7 | 110 | 4050 | 18000 | 13000 | 23000 |
| HFL 0615 R | 0.236 | 6 | 0.394 | 10 | 0.591 | 15 | 0.009 | 4 | 4.43 | 0.5 | 24.7 | 110 | 4050 | 18000 | 13000 | 23000 |
| HFL 0806 KFR | 0.315 | 8 | 0.472 | 12 | 0.236 | 6 | 0.005 | 2 | 6.2 | 0.7 | 12.1 | 54 | 940 | 4200 | 12000 | 17000 |
| HFL 0822 KFR | 0.315 | 8 | 0.472 | 12 | 0.866 | 22 | 0.015 | 7 | 8.85 | 1 | 157 | 700 | 7190 | 32000 | 12000 | 17000 |
| HFL 0822 R | 0.315 | 8 | 0.472 | 12 | 0.866 | 22 | 0.015 | 7 | 8.85 | 1 | 157 | 700 | 7190 | 32000 | 12000 | 17000 |
| HFL 1022 KFR | 0.394 | 10 | 0.551 | 14 | 0.866 | 22 | 0.018 | 8 | 13.28 | 1.5 | 180 | 800 | 7640 | 34000 | 11000 | 14000 |
| HFL 1022 R | 0.394 | 10 | 0.551 | 14 | 0.866 | 22 | 0.018 | 8 | 13.28 | 1.5 | 180 | 800 | 7640 | 34000 | 11000 | 14000 |

# NOTES

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## SEALS, SNAP RINGS & ROLLERS


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| GR | METRIC SINGLE LIP RUBBER SEALS WITH STEEL OD | 356 |
| SD | METRIC DOUBLE LIP POLYURETHANE SEALS | 358 |
| WR | METRIC SHAFT RETAINING RINGS | 360 |
| WRE | METRIC HEAVY SERIES SHAFT RETAINING RINGS | 363 |
| BR | METRIC HOUSING RETAINING RINGS | 364 |
| NRA | ROUND END NEEDLE ROLLERS | 367 |
| NRB | FLAT END NEEDLE ROLLERS | 367 |

### PRODUCT DESCRIPTION

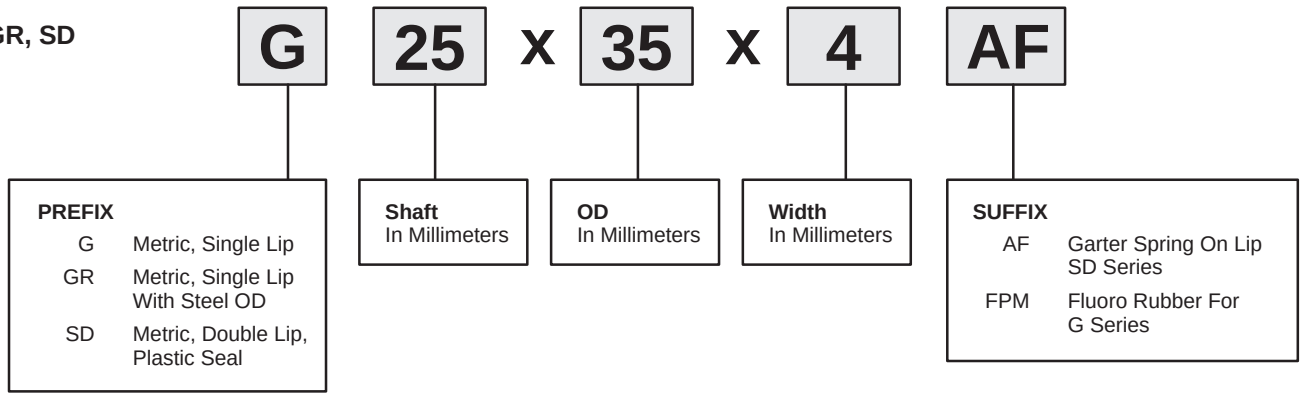
**INA Seals, Snap Rings and Rollers**

- Complementary metric components for use with INA bearing products
- Seals available as single lip rubber or double lip plastic grease seals
- Double lip version available with garter spring
- Rollers available in inch or metric nominal sizes
- Roller diameter sorted to tolerance groups of 2 micrometers (0.00008 inch) for tolerance range of 10 micrometers (0.0004 inch)

# Part Number Identification
## SEALS, SNAP RINGS & ROLLERS

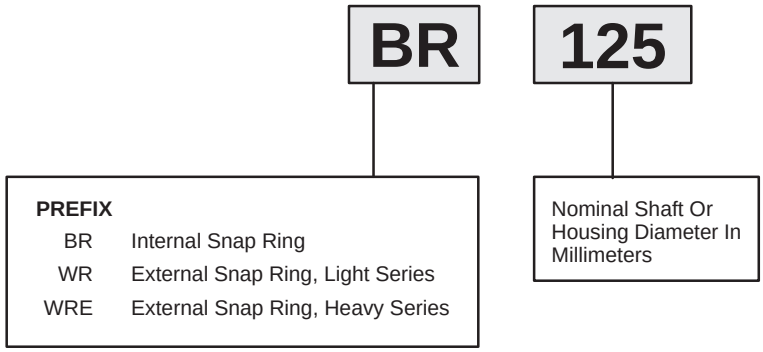
### NEEDLE BEARING SEALS METRIC SERIES

**G, GR, SD**



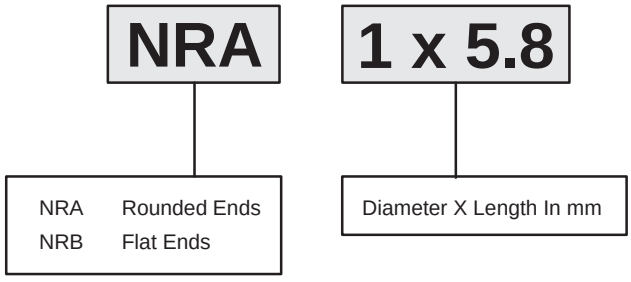

### NEEDLE BEARING SEALS METRIC SERIES

**BR, WR, WRE**



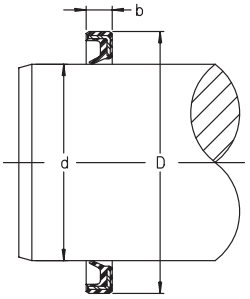

### NEEDLE ROLLERS

**NRA, NRB**



# Metric Seals
## G SERIES

- Single lip NBR seals
- GR series interchangeable except with steel OD




For details on part numbers, descriptive suffixes and various technical references, please refer to front of this section.
For engineering or technical information contact your local sales representative or call Distributor Sales (800)523-6572.

| PART NUMBER | SHAFT DIA. d inch | SHAFT DIA. d mm | OD D inch | OD D mm | WIDTH b inch | WIDTH b mm | WEIGHT lbs | WEIGHT g |
|---|---|---|---|---|---|---|---|---|
| G 4x8x2 | 0.157 | 4 | 0.315 | 8 | 0.079 | 2 | 0.0004 | 0.18 |
| G 5x9x2 | 0.197 | 5 | 0.354 | 9 | 0.079 | 2 | 0.0004 | 0.19 |
| G 5x10x2 | 0.197 | 5 | 0.394 | 10 | 0.079 | 2 | 0.0005 | 0.22 |
| G 6x10x2 | 0.236 | 6 | 0.394 | 10 | 0.079 | 2 | 0.0005 | 0.21 |
| G 6x12x2 | 0.236 | 6 | 0.472 | 12 | 0.079 | 2 | 0.0008 | 0.38 |
| G 7x11x2 | 0.276 | 7 | 0.433 | 11 | 0.079 | 2 | 0.0006 | 0.25 |
| G 7x14x2 | 0.276 | 7 | 0.551 | 14 | 0.079 | 2 | 0.0011 | 0.52 |
| G 8x12x3 | 0.315 | 8 | 0.472 | 12 | 0.118 | 3 | 0.0009 | 0.41 |
| G 8x15x3 | 0.315 | 8 | 0.591 | 15 | 0.118 | 3 | 0.0014 | 0.65 |
| G 9x13x3 | 0.354 | 9 | 0.512 | 13 | 0.118 | 3 | 0.0010 | 0.44 |
| G 9x16x3 | 0.354 | 9 | 0.63 | 16 | 0.118 | 3 | 0.0015 | 0.69 |
| G 10x14x3 | 0.394 | 10 | 0.551 | 14 | 0.118 | 3 | 0.0011 | 0.5 |
| G 10x17x3 | 0.394 | 10 | 0.669 | 17 | 0.118 | 3 | 0.0020 | 0.9 |
| G 12x16x3 | 0.472 | 12 | 0.63 | 16 | 0.118 | 3 | 0.0013 | 0.6 |
| G 12x18x3 | 0.472 | 12 | 0.709 | 18 | 0.118 | 3 | 0.0020 | 0.9 |
| G 12x19x3 | 0.472 | 12 | 0.748 | 19 | 0.118 | 3 | 0.0022 | 1 |
| G 13x19x3 | 0.512 | 13 | 0.748 | 19 | 0.118 | 3 | 0.0020 | 0.9 |
| G 14x20x3 | 0.551 | 14 | 0.787 | 20 | 0.118 | 3 | 0.0022 | 1 |
| G 14x21x3 | 0.551 | 14 | 0.827 | 21 | 0.118 | 3 | 0.0024 | 1.1 |
| G 14x22x3 | 0.551 | 14 | 0.866 | 22 | 0.118 | 3 | 0.0029 | 1.3 |
| G 15x21x3 | 0.591 | 15 | 0.827 | 21 | 0.118 | 3 | 0.0022 | 1 |
| G 15x23x3 | 0.591 | 15 | 0.906 | 23 | 0.118 | 3 | 0.0029 | 1.3 |
| G 16x22x3 | 0.63 | 16 | 0.866 | 22 | 0.118 | 3 | 0.0029 | 1.3 |
| G 16x24x3 | 0.63 | 16 | 0.945 | 24 | 0.118 | 3 | 0.0029 | 1.3 |
| G 16x25x3 | 0.63 | 16 | 0.984 | 25 | 0.118 | 3 | 0.0035 | 1.6 |
| G 17x23x3 | 0.669 | 17 | 0.906 | 23 | 0.118 | 3 | 0.0029 | 1.3 |
| G 17x25x3 | 0.669 | 17 | 0.984 | 25 | 0.118 | 3 | 0.0033 | 1.5 |
| G 18x24x3 | 0.709 | 18 | 0.945 | 24 | 0.118 | 3 | 0.0026 | 1.2 |
| G 18x26x4 | 0.709 | 18 | 1.024 | 26 | 0.157 | 4 | 0.0040 | 1.8 |
| G 19x27x4 | 0.748 | 19 | 1.063 | 27 | 0.157 | 4 | 0.0044 | 2 |
| G 20x26x4 | 0.787 | 20 | 1.024 | 26 | 0.157 | 4 | 0.0040 | 1.8 |
| G 20x28x4 | 0.787 | 20 | 1.102 | 28 | 0.157 | 4 | 0.0046 | 2.1 |
| G 21x29x4 | 0.827 | 21 | 1.142 | 29 | 0.157 | 4 | 0.0049 | 2.2 |
| G 22x28x4 | 0.866 | 22 | 1.102 | 28 | 0.157 | 4 | 0.0040 | 1.8 |
| G 22x30x4 | 0.866 | 22 | 1.181 | 30 | 0.157 | 4 | 0.0049 | 2.2 |
| G 24x32x4 | 0.945 | 24 | 1.26 | 32 | 0.157 | 4 | 0.0055 | 2.5 |
| G 25x32x4 | 0.984 | 25 | 1.26 | 32 | 0.157 | 4 | 0.0051 | 2.3 |
| G 25x33x4 | 0.984 | 25 | 1.299 | 33 | 0.157 | 4 | 0.0055 | 2.5 |
| G 25x35x4 | 0.984 | 25 | 1.378 | 35 | 0.157 | 4 | 0.0057 | 2.6 |
| G 26x34x4 | 1.024 | 26 | 1.339 | 34 | 0.157 | 4 | 0.0057 | 2.6 |
| G 28x35x4 | 1.102 | 28 | 1.378 | 35 | 0.157 | 4 | 0.0053 | 2.4 |
| G 28x37x4 | 1.102 | 28 | 1.457 | 37 | 0.157 | 4 | 0.0068 | 3.1 |
| G 29x38x4 | 1.142 | 29 | 1.496 | 38 | 0.157 | 4 | 0.0071 | 3.2 |
| G 30x37x4 | 1.181 | 30 | 1.457 | 37 | 0.157 | 4 | 0.0060 | 2.7 |
| G 30x40x4 | 1.181 | 30 | 1.575 | 40 | 0.157 | 4 | 0.0079 | 3.6 |
| G 32x42x4 | 1.26 | 32 | 1.654 | 42 | 0.157 | 4 | 0.0082 | 3.7 |