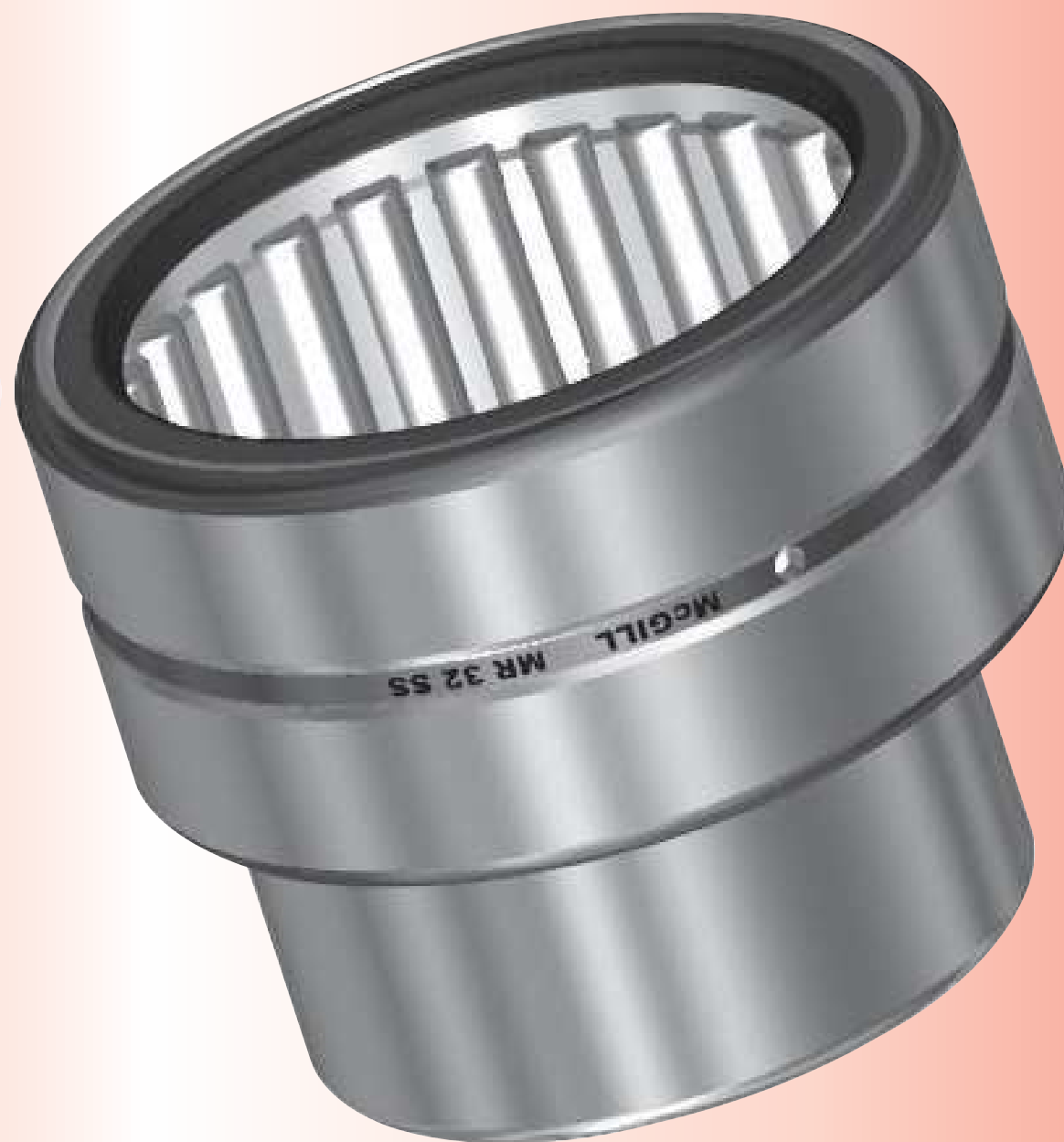






Needle

Unmounted bearing assembly consisting of through hardened precision machined inner and outer raceways with either full complement or separated (cage) needle rolling elements. Depending on the bearing configuration the retainer can be land or roller riding and available with several seal options. Machined race needle bearings provide an antifriction solution when supporting rotating shafts with radial loads.

Bearing Configurations

Separable Or Non-Separable Inner/Outer Raceway

Shaft Diameter Range

1/2" To 9 1/4" And 15 mm To 235 mm

Materials

Bearing Quality Steel

Needle Selection Guide



				SIZE RANGE	
		Product Series	Material / Roller Complement	Inch	Metric Equiv.
CAGEROL		MR	Bearing Steel Caged Needle Roller	5/8" - 9 1/4"	16 - 235
		MR Sealed		5/8" - 4 1/4"	16 - 108
		MR Narrow		5/8" - 6 1/2"	16 - 165
GUIDEROL		GR	Bearing Steel Full Complement Center Guided Needle Roller	1/2" - 9 1/4"	13 - 235
		GR Sealed		5/8" - 4 1/4"	16 - 108
		GR Narrow		5/8" - 6 1/2"	16 - 165
MULTI-ROL		RS	Bearing Steel Full Complement Needle Roller	3/4" - 3"	19 - 76
		RD		1 1/4" - 4"	32 - 102
Journal		200 Series	Bearing Steel Caged Roller	1 3/16" - 8 5/8"	30 - 220
		300 Series		1" - 5 3/16"	25 - 130

Metric dimensions are for reference only.
Listed needle roller bearings are manufactured to inch dimensions.

* For estimating purpose only, individually sizes may vary and are subject to change without notification



Needle Bearings **ROLLWAY® MCGILL®**

Needle/Journal Bearings



Design Characteristics						Features								
Limited Radial Space	Dynamic Load Rating	Static Load Rating	Oscillating Capability	High Speed	Relative Base Cost *	Separable Inner Race	Double Row	Oil Holes	Rubber Lip Seal	Metallic Shield	DS Matching	Separable Outer	Page No.	
					\$	O	-	S	-	-	O	-	C-9	
					\$	O	-	S	S	-	O	-	C-9	
					\$	O	-	S	-	-	O	-	C-9	
					\$\$\$	O	-	S	-	-	O	-	C-21	
					\$\$\$	O	-	S	S	-	O	-	C-21	
					\$\$\$	O	-	S	-	-	O	-	C-21	
					\$\$	-	-	S	-	S	O	-	C-33	
					\$\$	-	S	S	-	S	O	-	C-34	
					\$\$\$	O	-	S	-	-	-	S	C-37	
					\$\$\$	O	-	S	-	-	-	S	C-37	

Utilize Mi Inner Rings For Installations On Unhardened Shafts

Higher Radial Loads

Relubrication To Help Promote Long Operating Life

Contamination Barrier Lubrication Retention

Elevated Temperature Applications (When Applied With Suitable Lubricant)

Recommended For Load Sharing When Mounting Bearing Pairs

Available As Complete Assembly Or Individual Components

O = Optional

S = Standard

○ = Not Recommended

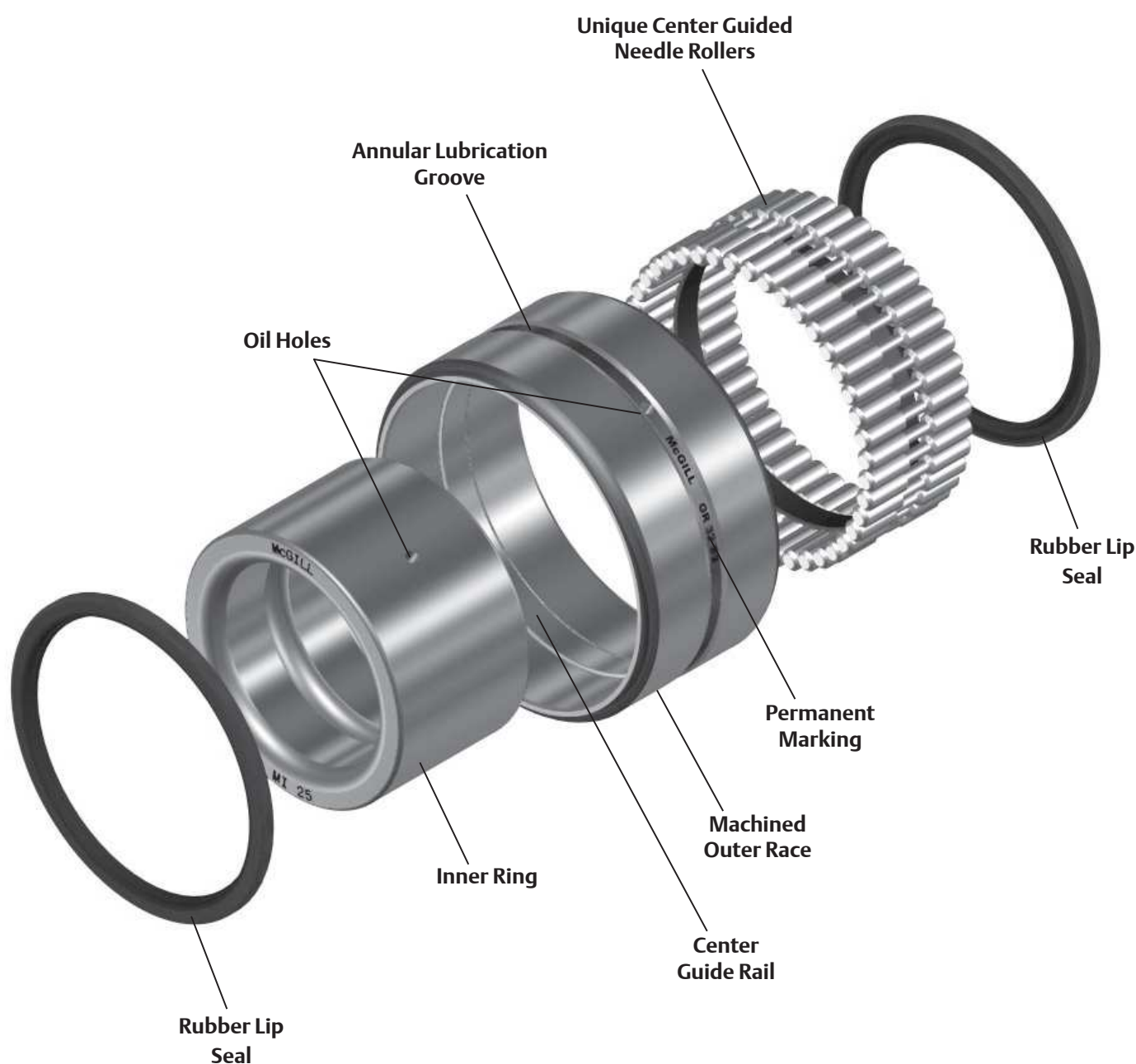
◐ ◑ ◒ ◓ ◔

Poor ← → **Best**

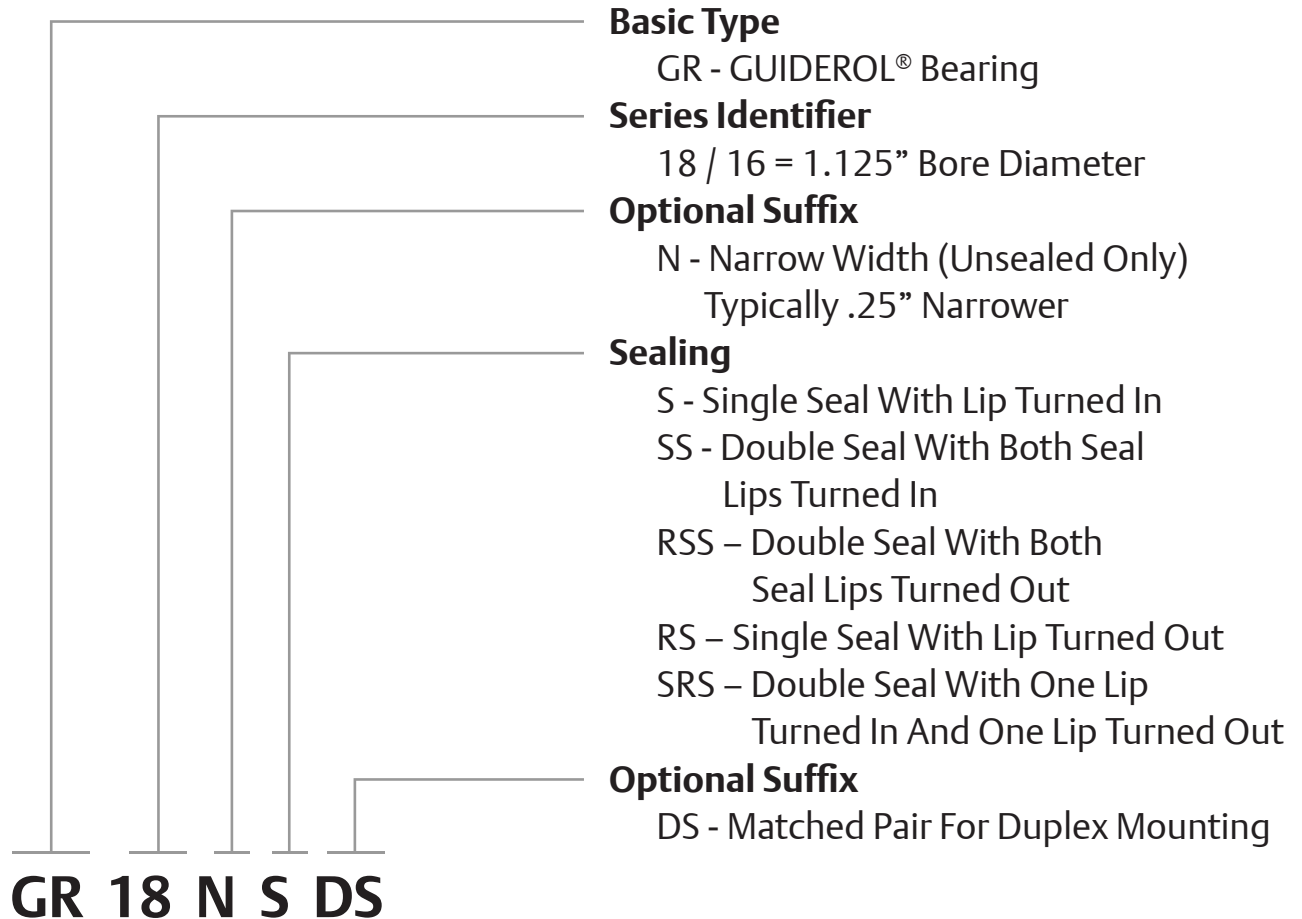
Note: Cost ranges are approximate in the secondary dimension

McGill GUIDEROL® Bearings

McGill GUIDEROL® machined race full complement needle bearings are manufactured from bearing quality steel with unique roller and race design to provide center-guided rolling elements for higher radial load capacity and is well suited for oscillating applications. GUIDEROL® bearings are constructed with radial lubrication hole and groove on the outer and optional inner raceway (MI-series) for relubrication through the housing or shaft. Other options include a variety of seal configurations to either help prevent contaminant entry or contain the lubricant. Depending on your preference, these bearings are available in a wide variety of sizes and sealing options as illustrated on the pages to follow.



GUIDEROL® Nomenclature



Inner Ring





Features and Benefits



Machined Outer Race

Race manufactured from bearing quality steel and hardened to carry heavy dynamic and static loads.



Unique Center Guided Needle Rollers

Centered guided rollers designed to fit a mating guide rail and allow for maximum width of roller within the bearing.



Retaining Ring and Center Rail

Provides retention of needle rollers and helps guide rollers to prevent skewing.



Annular Lubrication Groove

The groove provides a circumferential path to direct lubricant to the oil hole, when lubricating through the housing.

Factory Grease Fill

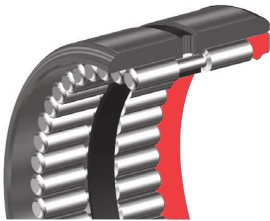
The sealed GUIDEROL® bearings are factory lubricated with a medium temperature (-30° to 250°F, -34° to 121° C) NLGI 1 grease, unsealed bearings packaged with light oil film as a rust preventative. Contact Application Engineering when application conditions require special lubricants.



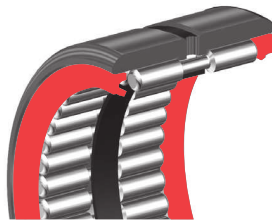
Options

Seals

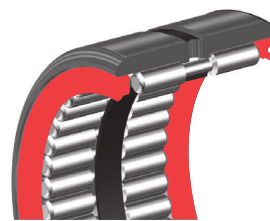
The rubber lip seal is capable of 250° F maximum temperature and is available in several different configurations on bearings capable being sealed.



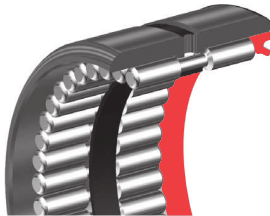
S



SS



RS



RSS



SRS

“DS” Matched Bearings – Load Sharing

When two bearings are installed with the distance between both bearing less than the width of one bearing, it is recommended the bearings be diametrically matched to prevent unequal load sharing. The option matches OD and ID tolerances, diametrical clearance within 30% of the tolerance range and the radial runout within 20% of the tolerance range with high point of runout indicated on the bearing faces. For more information and matching factors please review the engineering section for matched bearings. Matched bearings are packaged as sets, but can be used individually if desired.



Machined Inner Ring (MI)

Precision ground inner ring provides a hardened raceway for the rollers when used with an unhardened shaft. The ring contains an oil hole and annular groove for relubrication of the bearing and can be used with both CAGEROL and GUIDEROL bearings or can be utilized as a bushing in plain bearing applications.

Grease Options

When requested, standard bearings can be factory filled with customer specified lubricant.

McGILL® GUIDEROL® Bearings

Needle/Journal Bearings



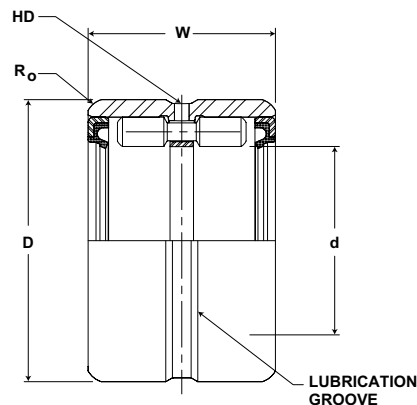
Basic Construction Type: Machined Race with full Complement of Needles

Rolling Elements: Center Guided Precision Needles

Bearing Material: Bearing Quality Steel

Seal Type: Rubber Lip

Lubrication: Sealed Bearings: Lithium Soap Grease NLGI #1
Unsealed Bearings: Rust Preventative



GR SERIES

Part No.	d		D		W	Housing Bore Diameter			HD	Ro	Limiting Speed (In Oil)*	Basic Dynamic Rating	Basic Static Rating	Outer & Roller Assembly Weight
Outer Ring & Roller Assembly	Shaft Diameter		Outside Diameter		Width				Radial Lub. Hole Diameter	Max Hsg Radius to Clear				
	inch mm		inch mm		inch mm	inch mm			inch mm		RPM	lb/N	lb/N	lb kg
	Nom	Tol.	Nom	Tol.	Tol. (+0/-.13)	Rotating	Stationary	Tol.	(Ref)	(Ref)				
GR 8 N	.5000 12.7	+0/-.0005 +0/-.013	1.0000 25.4	+0/-.0005 +0/-.013	.750 19.05	0.9997 25.402	1.0070 25.588	+0/-.0007 +0/-.018	.08 2	0.03 1	TBD	2,600 11,565	4,500 20,016	.12 .05
GR 10 N	.6250 15.9	+0/-.0005 +0/-.013	1.1250 28.6	+0/-.0005 +0/-.013	.750 19.05	1.1247 28.579	1.1257 28.604	+0/-.0007 +0/-.018	.08 2	0.03 1	9,600	3,400 15,123	6,400 28,467	.12 .05
GR 10 SS, S, RS, SRS, RSS					1.000 25.40	1.1247 28.579	1.1257 28.604	+0/-.0007 +0/-.018	.08 2	0.03 1	9,600	3,400 15,123	6,400 28,467	.12 .05
GR 10					1.000 25.40	1.1247 28.579	1.1257 28.604	+0/-.0007 +0/-.018	.08 2	0.03 1	9,600	4,700 20,906	9,100 40,477	.15 .07
GR 12 N	.7500 19.1	+0/-.0005 +0/-.013	1.2500 31.8	+0/-.0005 +0/-.013	.750 19.05	1.2497 31.755	1.2507 31.780	+0/-.0007 +0/-.018	.08 2	0.04 1	8,000	3,700 16,458	7,200 32,026	.14 .06
GR 12 SS, S, RS, SRS, RSS					1.000 25.40	1.2497 31.755	1.2507 31.780	+0/-.0007 +0/-.018	.08 2	0.04 1	8,000	3,700 16,458	7,200 32,026	.14 .06
GR 12					1.000 25.40	1.2497 31.755	1.2507 31.780	+0/-.0007 +0/-.018	.08 2	0.04 1	8,000	5,100 22,685	10,900 48,483	.17 .08
GR 14 N	.8750 22.2	+0/-.0005 +0/-.013	1.3750 34.9	+0/-.0005 +0/-.013	.750 19.05	1.3747 34.931	1.3757 34.957	+0/-.0007 +0/-.018	.08 2	0.04 1	6,800	4,150 18,459	8,400 37,363	.16 .07
GR 14 SS, S, RS, SRS, RSS					1.000 25.40	1.3747 34.931	1.3757 34.957	+0/-.0007 +0/-.018	.08 2	0.04 1	6,800	4,150 18,459	8,400 37,363	.16 .07
GR 14					1.000 25.40	1.3747 34.931	1.3757 34.957	+0/-.0007 +0/-.018	.08 2	0.04 1	6,800	5,700 25,354	12,800 56,934	.21 .09
GR 16 N	1.0000 25.4	+0/-.0005 +0/-.013	1.5000 38.1	+0/-.0005 +0/-.013	.750 19.05	1.4997 38.107	1.5007 38.133	+0/-.0007 +0/-.018	.08 2	0.04 1	6,000	4,350 19,349	9,600 42,701	.20 .09
GR 16 SS, S, RS, SRS, RSS					1.000 25.40	1.4997 38.107	1.5007 38.133	+0/-.0007 +0/-.018	.08 2	0.04 1	6,000	4,350 19,349	9,600 42,701	.20 .09
GR 16					1.000 25.40	1.4997 38.107	1.5007 38.133	+0/-.0007 +0/-.018	.08 2	0.04 1	6,000	6,050 26,910	14,500 64,496	.23 .10
GR 18 N	1.1250 28.6	+0/-.0005 +0/-.013	1.6250 41.3	+0/-.0005 +0/-.013	.750 19.05	1.6247 41.284	1.6257 41.309	+0/-.0007 +0/-.018	.09 2	0.04 1	5,300	6,250 27,800	15,200 67,610	.24 .11
GR 18 SS, S, RS, SRS, RSS					1.000 25.40	1.6247 41.284	1.6257 41.309	+0/-.0007 +0/-.018	.09 2	0.04 1	5,300	6,250 27,800	15,200 67,610	.24 .11
GR 18					1.000 25.40	1.6247 41.284	1.6257 41.309	+0/-.0007 +0/-.018	.09 2	0.04 1	5,300	7,900 35,139	20,900 92,963	.3 .14

For sealed bearings, Outside diameter may be slightly oversize due to seal press fit.

For DS matching as DS suffix to part number

* For bearing properly filled with #1 grease reduce speed by 50%

Metric dimensions for reference only.

Not all parts are available from stock. Please contact customer service for availability (800) 626-2120.

For more information on bearing capabilities outside of our standard offering, please contact Application Engineering (800) 626-2093.

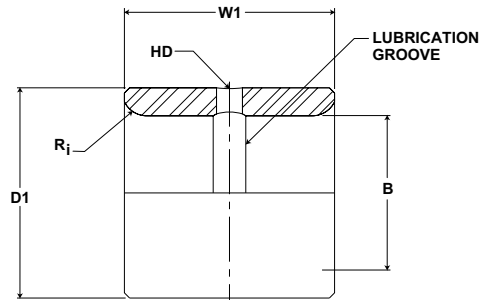
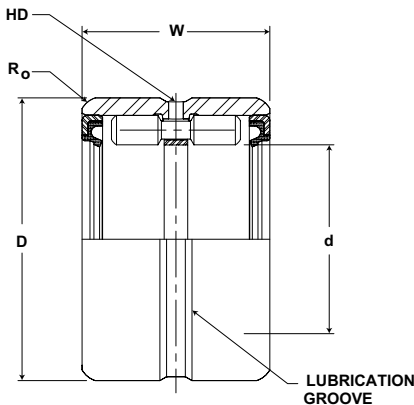
Bearing Selection
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Nomenclature Aid
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Features & Benefits
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Product Options
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Technical Engineering
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GR SERIES

Part No.		B		D1		W1	HD	Ri	Recommended Shaft Diameter with inner ring			Inner Weight
Outer Ring & Roller Assembly	Separable Inner Ring Only	Bore Diameter		Outside Diameter		Width	Radial Lub. Hole Diameter	Max Shaft Radius to Clear				
		inch mm		inch mm		inch mm			inch mm			lb kg
		Nom	Tol.	Nom	Tol.	+Tol +0/-0.005 (+0/-0.13)	(Ref)	(Ref)	Rotating	Stationary	Tol.	
GR 8 N	-	-	-	-	-	-	-	-	-	-	-	-
GR 10 N	MI 6 N	.3750 9.529	+0/-0.0004 +0/-0.010	.6245 15.869	+0/-0.0004 +0/-0.010	.760 19.31	0.09 2	0.25 6	.3755 9.5	.3747 9.5	+0/-0.0005 +0/-0.013	.05 .02
	MI 7 N	.4375 11.117	+0/-0.0004 +0/-0.010	.6245 15.869	+0/-0.0004 +0/-0.010	.760 19.31	0.09 2	0.25 6	.4380 11.1	.4372 11.1	+0/-0.0005 +0/-0.013	.04 .02
GR 10 SS, S, RS, SRS, RSS	MI 6	.3750 9.529	+0/-0.0004 +0/-0.010	.6245 15.869	+0/-0.0004 +0/-0.010	1.010 25.66	0.09 2	0.25 6	.3755 9.5	.3747 9.5	+0/-0.0005 +0/-0.013	.05 .02
GR 10	MI 6	.3750 9.529	+0/-0.0004 +0/-0.010	.3750 9.530	+0/-0.0004 +0/-0.010	1.010 25.66	0.09 2	0.25 6	.3755 9.5	.3747 9.5	+0/-0.0005 +0/-0.013	.05 .02
GR 12 N	MI 8 N	.5000 12.705	+0/-0.0004 +0/-0.010	.7493 19.040	+0/-0.0005 +0/-0.013	.760 19.31	0.13 3	0.40 10	.5005 12.7	.4997 12.7	+0/-0.0005 +0/-0.013	.04 .02
	MI 9 N	.5625 14.293	+0/-0.0004 +0/-0.010	.7493 19.040	+0/-0.0005 +0/-0.013	.760 19.31	0.13 3	0.40 10	.5630 14.3	.5623 14.3	+0/-0.0005 +0/-0.013	.04 .02
GR 12 SS, S, RS, SRS, RSS	MI 8	.5000 12.705	+0/-0.0004 +0/-0.010	.7493 19.040	+0/-0.0005 +0/-0.013	1.010 25.66	0.13 3	0.40 10	.5005 12.7	.4997 12.7	+0/-0.0005 +0/-0.013	.06 .03
GR 12	MI 8	.5000 12.705	+0/-0.0004 +0/-0.010	.7493 19.040	+0/-0.0005 +0/-0.013	1.010 25.66	0.13 3	0.40 10	.5005 12.7	.4997 12.7	+0/-0.0005 +0/-0.013	.06 .03
GR 14 N	MI 10 N	.6250 15.881	+0/-0.0004 +0/-0.010	.8743 22.216	+0/-0.0005 +0/-0.013	.760 19.31	0.13 3	0.40 10	.6255 15.9	.6247 15.9	+0/-0.0005 +0/-0.013	.06 .03
	MI 11 N	.6875 17.469	+0/-0.0004 +0/-0.010	.8743 22.216	+0/-0.0005 +0/-0.013	.760 19.31	0.13 3	0.40 10	.6880 17.5	.6872 17.5	+0/-0.0005 +0/-0.013	.05 .02
GR 14 SS, S, RS, SRS, RSS	MI 10	.6250 15.881	+0/-0.0004 +0/-0.010	.8743 22.216	+0/-0.0005 +0/-0.013	1.010 25.66	0.13 3	0.40 10	.6255 15.9	.6247 15.9	+0/-0.0005 +0/-0.013	.08 .04
GR 14	MI 10	.6250 15.881	+0/-0.0004 +0/-0.010	.8743 22.216	+0/-0.0005 +0/-0.013	1.010 25.66	0.13 3	0.40 10	.6255 15.9	.6247 15.9	+0/-0.0005 +0/-0.013	.08 .04
GR 16 N	MI 12 N	.7500 19.058	+0/-0.0004 +0/-0.010	.9993 25.392	+0/-0.0005 +0/-0.013	.760 19.31	0.13 3	0.40 10	.7505 19.1	.7497 19.0	+0/-0.0005 +0/-0.013	.07 .03
	MI 13 N	.8125 20.646	+0/-0.0004 +0/-0.010	.9993 25.392	+0/-0.0005 +0/-0.013	.760 19.31	0.13 3	0.40 10	.8130 20.7	.8121 20.6	+0/-0.0005 +0/-0.013	.07 .03
GR 16 SS, S, RS, SRS, RSS	MI 12	.7500 19.058	+0/-0.0004 +0/-0.010	.9993 25.392	+0/-0.0005 +0/-0.013	1.010 25.66	0.13 3	0.40 10	.7505 19.1	.7497 19.0	+0/-0.0005 +0/-0.013	.10 .05
GR 16	MI 13	.8125 20.646	+0/-0.0004 +0/-0.010	.9993 25.392	+0/-0.0005 +0/-0.013	1.010 25.66	0.13 3	0.40 10	.8130 20.7	.8121 20.6	+0/-0.0005 +0/-0.013	.11 .05
GR 18 N	MI 14 N	.8750 22.234	+0/-0.0005 +0/-0.013	1.124 28.563	+0/-0.0005 +0/-0.013	1.010 25.66	0.13 3	0.40 10	.8755 22.2	.8746 22.2	+0/-0.0005 +0/-0.013	.11 .05
	MI 15 N	.9375 23.822	+0/-0.0005 +0/-0.013	1.124 28.563	+0/-0.0005 +0/-0.013	1.010 25.66	0.13 3	0.40 10	.9380 23.8	.9371 23.8	+0/-0.0005 +0/-0.013	.11 .05
GR 18 SS, S, RS, SRS, RSS	MI 14	.8750 22.234	+0/-0.0005 +0/-0.013	1.124 28.563	+0/-0.0005 +0/-0.013	1.260 32.02	0.13 3	0.40 10	.8755 22.2	.8746 22.2	+0/-0.0005 +0/-0.013	.13 .06
GR 18	MI 15	.9375 23.822	+0/-0.0005 +0/-0.013	1.124 28.563	+0/-0.0005 +0/-0.013	1.260 32.02	0.13 3	0.40 10	.9380 23.8	.9371 23.8	+0/-0.0005 +0/-0.013	.12 .06

McGILL® GUIDEROL® Bearings

Needle/Journal Bearings



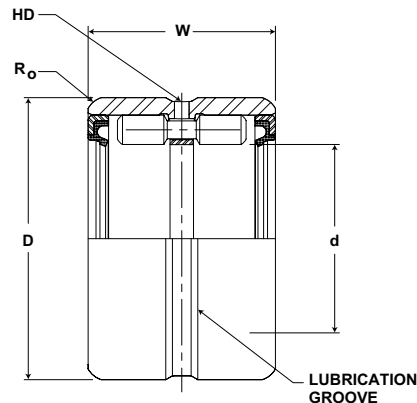
Basic Construction Type: Machined Race with full Complement of Needles

Rolling Elements: Center Guided Precision Needles

Bearing Material: Bearing Quality Steel

Seal Type: Rubber Lip

Lubrication: Sealed Bearings: Lithium Soap Grease NLGI #1
Unsealed Bearings: Rust Preventative



GR SERIES (continued)

Part No.	d		D		W	Housing Bore Diameter			HD	Ro	Limiting Speed (In Oil)*	Basic Dynamic Rating	Basic Static Rating	Outer & Roller Assembly Weight
Outer Ring & Roller Assembly	Shaft Diameter		Outside Diameter		Width				Radial Lub. Hole Diameter	Max Hsg Radius to Clear				
	inch mm		inch mm		inch mm	inch mm			inch mm		RPM	lb/N	lb/N	lb kg
	Nom	Tol.	Nom	Tol.	± 0.0005 (± 0.013)	Rotating	Stationary	Tol.	(Ref)	(Ref)				
GR 20 N	1.2500 ± 0.0005 31.8 ± 0.013		1.7500 ± 0.0005 44.5 ± 0.013		1.000 25.40	1.7497 44.460	1.7507 44.485	± 0.0007 ± 0.018	.09 2	0.04 1	4,800	6,500 28,912	17,000 75,616	.27 .12
GR 20 SS, S, RS, SRS, RSS					1.250 31.75	1.7497 44.460	1.7507 44.485	± 0.0007 ± 0.018	.09 2	0.04 1	3,050	6,500 28,912	17,000 75,616	.39 .15
GR 20	1.3750 ± 0.0005 34.9 ± 0.013		1.8750 ± 0.0006 47.6 ± 0.015		1.000 25.40	1.8747 47.636	1.8757 47.662	± 0.0007 ± 0.018	.09 2	0.04 1	4,800	8,300 36,918	23,100 102,749	.39 .15
GR 22 N					1.250 31.75	1.8747 47.636	1.8757 47.662	± 0.0007 ± 0.018	.09 2	0.04 1	4,400	7,100 31,581	18,600 82,733	.31 .14
GR 22 SS, S, RS, SRS, RSS					1.250 31.75	1.8747 47.636	1.8757 47.662	± 0.0007 ± 0.018	.09 2	0.04 1	2,800	7,100 31,581	18,600 82,733	.36 .16
GR 22	1.5000 ± 0.0005 38.1 ± 0.013		2.0625 ± 0.0006 52.4 ± 0.015		1.000 25.40	2.0621 52.398	2.0632 52.426	± 0.0007 ± 0.018	.09 2	0.06 2	4,000	9,050 31,803	25,500 89,850	.36 .16
GR 24 N					1.250 31.75	2.0621 52.398	2.0632 52.426	± 0.0007 ± 0.018	.09 2	0.06 2	4,000	7,150 31,803	20,200 89,850	.41 .19
GR 24 SS, S, RS, SRS, RSS					1.250 31.75	2.0621 52.398	2.0632 52.426	± 0.0007 ± 0.018	.09 2	0.06 2	2,500	7,150 31,803	20,200 89,850	.47 .21
GR 24	1.6250 ± 0.0005 41.3 ± 0.013		2.1875 ± 0.0006 55.6 ± 0.015		1.000 25.40	2.1871 55.574	2.1882 55.602	± 0.0007 ± 0.018	.09 2	0.06 2	4,000	9,150 40,699	27,800 123,654	.47 .21
GR 26 N					1.250 31.75	2.1871 55.574	2.1882 55.602	± 0.0007 ± 0.018	.09 2	0.06 2	3,700	7,500 33,360	21,700 96,522	.46 .21
GR 26 SS, S, RS, SRS, RSS					1.250 31.75	2.1871 55.574	2.1882 55.602	± 0.0007 ± 0.018	.09 2	0.06 2	2,350	7,500 33,360	21,700 96,522	.51 .23
GR 26	1.7500 ± 0.0005 44.5 ± 0.013		2.3125 ± 0.0006 58.8 ± 0.015		1.000 25.40	2.3121 58.750	2.3132 58.778	± 0.0007 ± 0.018	.09 2	0.06 2	3,700	9,600 42,701	29,800 132,550	.51 .23
GR 28 N					1.250 31.75	2.3121 58.750	2.3132 58.778	± 0.0007 ± 0.018	.09 2	0.06 2	3,400	7,750 34,472	23,300 103,638	.47 .21
GR 28 SS, S, RS, SRS, RSS					1.250 31.75	2.3121 58.750	2.3132 58.778	± 0.0007 ± 0.018	.09 2	0.06 2	2,200	7,750 34,472	23,300 103,638	.55 .25
GR 28	1.8750 ± 0.0005 47.6 ± 0.013		2.4375 ± 0.0006 61.9 ± 0.015		1.000 25.40	2.4371 61.927	2.4382 61.955	± 0.0007 ± 0.018	.09 2	0.06 2	3,400	9,850 43,813	32,100 142,781	.55 .25
GR 30 SS, S, RS, SRS, RSS					1.250 31.75	2.4371 61.927	2.4382 61.955	± 0.0007 ± 0.018	.09 2	0.06 2	3,400	9,850 43,813	32,100 142,781	.55 .25
GR 30	2.0000 ± 0.0005 50.8 ± 0.013		2.5625 ± 0.0006 65.1 ± 0.015		1.000 25.40	2.5621 65.103	2.5632 65.131	± 0.0007 ± 0.018	.09 2	0.06 2	2,040	8,150 36,251	25,200 112,090	.59 .27
GR 32 N					1.250 31.75	2.5621 65.103	2.5632 65.131	± 0.0007 ± 0.018	.09 2	0.06 2	3,000	8,000 35,584	26,700 118,762	.55 .25
GR 32 SS, S, RS, SRS, RSS					1.250 31.75	2.5621 65.103	2.5632 65.131	± 0.0007 ± 0.018	.09 2	0.06 2	1,900	8,000 35,584	26,700 118,762	.61 .28
GR 32					1.250 31.75	2.5621 65.103	2.5632 65.131	± 0.0007 ± 0.018	.09 2	0.06 2	3,000	10,250 45,592	36,700 163,242	.61 .28

For sealed bearings, Outside diameter may be slightly oversize due to seal press fit.

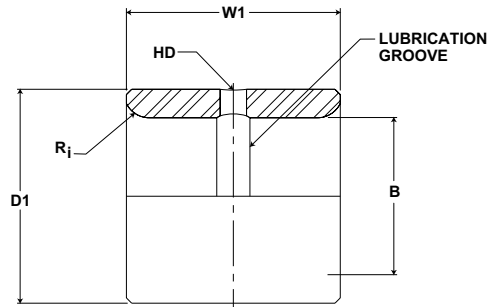
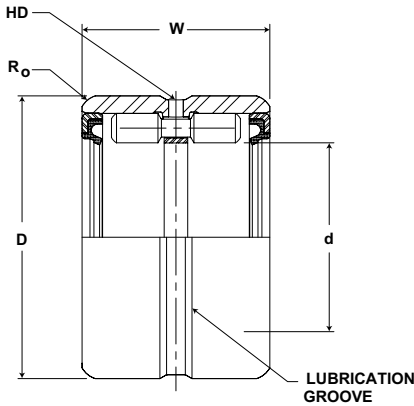
For DS matching as DS suffix to part number

* For bearing properly filled with #1 grease reduce speed by 50%

Metric dimensions for reference only.

Not all parts are available from stock. Please contact customer service for availability (800) 626-2120.

For more information on bearing capabilities outside of our standard offering, please contact Application Engineering (800) 626-2093.



GR SERIES (continued)

Part No.		B		D1		W1	HD	Ri	Recommended Shaft Diameter with inner ring			Inner Weight
Outer Ring & Roller Assembly	Separable Inner Ring Only	Bore Diameter		Outside Diameter		Width	Radial Lub. Hole Diameter	Max Shaft Radius to Clear				
		inch mm		inch mm		inch mm			inch mm			lb kg
		Nom	Tol.	Nom	Tol.	Tol +0/-0.005 (+0/-0.13)	(Ref)	(Ref)	Rotating	Stationary	Tol.	
GR 20 N	MI 16 N	1.0000 25.410	+0/-0.0005 +0/-0.013	1.2491 31.740	+0/-0.0006 +0/-0.015	1.010 25.66	0.13 3	0.40 10	1.0005 25.4	0.9996 25.4	+0/-0.0005 +0/-0.013	.13 .06
GR 20 SS, S, RS, SRS, RSS	MI 16	1.0000 25.410	+0/-0.0005 +0/-0.013	1.2491 31.740	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.40 10	1.0005 25.4	0.9996 25.4	+0/-0.0005 +0/-0.013	.16 .07
GR 20	MI 16	1.0000 25.410	+0/-0.0005 +0/-0.013	1.2491 31.740	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.40 10	1.0005 25.4	0.9996 25.4	+0/-0.0005 +0/-0.013	.16 .07
GR 22 N	MI 18 N	1.1250 28.586	+0/-0.0005 +0/-0.013	1.3741 34.916	+0/-0.0006 +0/-0.015	1.010 25.66	0.13 3	0.40 10	1.1255 28.6	1.1246 28.6	+0/-0.0005 +0/-0.013	.14 .06
GR 22 SS, S, RS, SRS, RSS	MI 18	1.1250 28.586	+0/-0.0005 +0/-0.013	1.3741 34.916	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.40 10	1.1255 28.6	1.1246 28.6	+0/-0.0005 +0/-0.013	.17 .08
GR 22	MI 17	1.0625 26.998	+0/-0.0005 +0/-0.013	1.3741 34.916	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.40 10	1.0630 27.0	1.0621 27.0	+0/-0.0005 +0/-0.013	.16 .07
GR 24 N	MI 20 N	1.2500 31.763	+0/-0.0005 +0/-0.013	1.4990 38.090	+0/-0.0006 +0/-0.015	1.010 25.66	0.13 3	0.06 2	1.2505 31.8	1.2496 31.8	+0/-0.0005 +0/-0.013	.19 .09
GR 24 SS, S, RS, SRS, RSS	MI 20	1.2500 31.763	+0/-0.0005 +0/-0.013	1.4990 38.090	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.06 2	1.2505 31.8	1.2496 31.8	+0/-0.0005 +0/-0.013	.22 .09
GR 24	MI 19	1.1875 30.174	+0/-0.0005 +0/-0.013	1.4990 38.090	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.06 2	1.1880 30.2	1.1871 30.2	+0/-0.0005 +0/-0.013	.24 .11
GR 26 N	MI 21 N	1.3125 33.351	+0/-0.0005 +0/-0.013	1.6240 41.266	+0/-0.0006 +0/-0.015	1.010 25.66	0.13 3	0.06 2	1.3130 33.4	1.3121 33.3	+0/-0.0005 +0/-0.013	.20 .09
GR 26 SS, S, RS, SRS, RSS	MI 21	1.3125 33.351	+0/-0.0005 +0/-0.013	1.6240 41.266	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.06 2	1.3130 33.4	1.3121 33.3	+0/-0.0005 +0/-0.013	.26 .12
GR 26	MI 22 4S	1.3750 34.939	+0/-0.0005 +0/-0.013	1.6240 41.266	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.06 2	1.3755 35.0	1.3746 34.9	+0/-0.0005 +0/-0.013	.20 .09
GR 28 N	MI 24 N	1.5000 38.115	+0/-0.0005 +0/-0.013	1.7490 44.442	+0/-0.0006 +0/-0.015	1.010 25.66	0.13 3	0.06 2	1.5005 38.1	1.4996 38.1	+0/-0.0005 +0/-0.013	.22 .09
GR 28 SS, S, RS, SRS, RSS	MI 22	1.3750 34.939	+0/-0.0005 +0/-0.013	1.7490 44.442	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.06 2	1.3755 35.0	1.3746 34.9	+0/-0.0005 +0/-0.013	.26 .12
GR 28	MI 23	1.4375 36.527	+0/-0.0005 +0/-0.013	1.7490 44.442	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.06 2	1.4380 36.5	1.4371 36.5	+0/-0.0005 +0/-0.013	.27 .12
	MI 24	1.5000 38.115	+0/-0.0005 +0/-0.013	1.7490 44.442	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.06 2	1.5005 38.1	1.4996 38.1	+0/-0.0005 +0/-0.013	.22 .09
GR 30 SS, S, RS, SRS, RSS	MI 25 4S	1.5625 39.703	+0/-0.0005 +0/-0.013	1.8740 47.618	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.06 2	1.5630 39.7	1.5621 39.7	+0/-0.0005 +0/-0.013	.27 .12
GR 30	MI 25 4S	1.5625 39.703	+0/-0.0005 +0/-0.013	1.8740 47.618	+0/-0.0006 +0/-0.015	1.260 32.02	0.13 3	0.06 2	1.5630 39.7	1.5621 39.7	+0/-0.0005 +0/-0.013	.27 .12
GR 32 N	MI 26 N	1.6250 41.291	+0/-0.0005 +0/-0.013	1.9989 50.792	+0/-0.0007 +0/-0.018	1.010 25.66	0.13 3	0.06 2	1.6255 41.3	1.6246 41.3	+0/-0.0005 +0/-0.013	.30 .14
GR 32 SS, S, RS, SRS, RSS	MI 25	1.5625 39.703	+0/-0.0005 +0/-0.013	1.9989 50.792	+0/-0.0007 +0/-0.018	1.260 32.02	0.13 3	0.06 2	1.5630 39.7	1.5621 39.7	+0/-0.0005 +0/-0.013	.30 .14
GR 32	MI 26	1.6250 41.291	+0/-0.0005 +0/-0.013	1.9989 50.792	+0/-0.0007 +0/-0.018	1.260 32.0	0.13 3	0.06 2	1.6255 41.3	1.6246 41.3	+0/-0.0005 +0/-0.013	.38 .17
	MI 27	1.6875 42.879	+0/-0.0005 +0/-0.013	1.9989 50.792	+0/-0.0007 +0/-0.018	1.260 32.0	0.13 3	0.06 2	1.6880 42.9	1.6871 42.9	+0/-0.0005 +0/-0.013	.32 .15

McGILL® GUIDEROL® Bearings

Needle/Journal Bearings



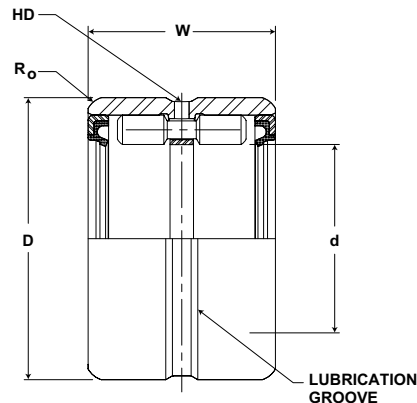
Basic Construction Type: Machined Race with full Complement of Needles

Rolling Elements: Center Guided Precision Needles

Bearing Material: Bearing Quality Steel

Seal Type: Rubber Lip

Lubrication: Sealed Bearings: Lithium Soap Grease NLGI #1
Unsealed Bearings: Rust Preventative



GR SERIES (continued)

Part No.	d		D		W	Housing Bore Diameter			HD	Ro	Limiting Speed (In Oil)*	Basic Dynamic Rating	Basic Static Rating	Outer & Roller Assembly Weight
Outer Ring & Roller Assembly	Shaft Diameter		Outside Diameter		Width				Radial Lub. Hole Diameter	Max Hsg Radius to Clear				
	inch mm		inch mm		inch mm	inch mm			inch mm		RPM	lb/N	lb/N	lb kg
	Nom	Tol.	Nom	Tol.	+0/-0.005 (+0/.13)	Rotating	Stationary	Tol.	(Ref)	(Ref)				
GR 36 N	2.2500 +0/-0.0005 57.2 +0/-0.13		3.0000 +0/-0.0006 76.2 +0/-0.15		1.500 38.10	2.9996 76.220	3.0007 76.248	+0/-0.0007 +0/-0.018	.13 3	0.08 2	2,700	15,250 67,832	49,100 218,397	1.13 .51
GR 36 SS, S, RS, SRS, RSS					1.750 44.45	2.9996 76.220	3.0007 76.248	+0/-0.0007 +0/-0.018	.13 3	0.08 2	1,700	15,250 67,832	49,100 218,397	1.32 .59
GR 36					1.750 44.45	2.9996 76.220	3.0007 76.248	+0/-0.0007 +0/-0.018	.13 3	0.08 2	2,700	18,450 82,066	60,200 267,770	1.32 .59
GR 40 N	2.5000 +0/-0.0005 63.5 +0/-0.13		3.2500 +0/-0.0008 82.6 +0/-0.20		1.500 38.10	3.2496 82.572	3.2507 82.600	+0/-0.0007 +0/-0.018	.13 3	0.08 2	2,400	16,200 72,058	54,500 242,416	1.23 .56
GR 40 SS, S, RS, SRS, RSS					1.750 44.45	3.2496 82.572	3.2507 82.600	+0/-0.0007 +0/-0.018	.13 3	0.08 2	1,530	16,200 72,058	54,500 242,416	1.44 .65
GR 40					1.750 44.45	3.2496 82.572	3.2507 82.600	+0/-0.0007 +0/-0.018	.13 3	0.08 2	2,400	19,800 88,070	66,800 297,126	1.44 .65
GR 44 N	2.7500 +0/-0.0005 69.9 +0/-0.13		3.5000 +0/-0.0008 88.9 +0/-0.20		1.500 38.10	3.4995 88.922	3.5008 88.955	+0/-0.0010 +0/-0.025	.13 3	0.08 2	2,200	16,800 74,726	59,900 266,435	1.36 .62
GR 44 SS, S, RS, SRS, RSS					1.750 44.45	3.4995 88.922	3.5008 88.955	+0/-0.0010 +0/-0.025	.13 3	0.08 2	1,390	16,800 74,726	59,900 266,435	1.59 .72
GR 44					1.750 44.45	3.4995 88.922	3.5008 88.955	+0/-0.0010 +0/-0.025	.13 3	0.08 2	2,200	20,350 90,517	73,400 326,483	1.59 .72
GR 48 N	3.0000 +0/-0.0005 76.2 +0/-0.13		3.7500 +0/-0.0008 95.3 +0/-0.20		1.500 38.10	3.7495 95.275	3.7508 95.308	+0/-0.0010 +0/-0.025	.13 3	0.08 2	2,000	20,500 91,184	65,400 290,899	1.53 .69
GR 48 SS, S, RS, SRS, RSS					1.750 44.45	3.7495 95.275	3.7508 95.308	+0/-0.0010 +0/-0.025	.13 3	0.08 2	1,270	20,500 91,184	65,400 290,899	1.70 .77
GR 48					1.750 44.45	3.7495 95.275	3.7508 95.308	+0/-0.0010 +0/-0.025	.13 3	0.08 2	2,000	20,600 91,629	80,200 356,730	1.70 .77
GR 52 SS, S, RS, SRS, RSS	3.2500 +0/-0.0005 82.6 +0/-0.13		4.2500 +0/-0.0008 108.0 +0/-0.20		1.750 44.45	4.2495 107.980	4.2508 108.013	+0/-0.0010 +0/-0.025	.19 5	0.08 2	1,175	25,100 111,645	63,800 283,782	2.64 1.19
GR 52					1.750 44.45	4.2495 107.980	4.2508 108.013	+0/-0.0010 +0/-0.025	.19 5	0.08 2	1,850	23,950 106,530	80,100 356,285	2.64 1.19
GR 56 N	3.5000 +0/-0.0005 88.9 +0/-0.13		4.5000 +0/-0.0008 114.3 +0/-0.20		1.750 44.45	3.2496 82.572	3.2507 82.600	+0/-0.0010 +0/-0.025	.19 5	0.08 2	1,700	25,100 111,645	86,500 384,752	2.88 1.31
GR 56 SS, S, RS, SRS, RSS					2.000 50.80	3.4995 88.922	3.5008 88.955	+0/-0.0010 +0/-0.025	.19 5	0.08 2	1,090	25,100 111,645	86,500 384,752	3.18 1.44
GR 56					2.000 50.80	3.4995 88.922	3.5008 88.955	+0/-0.0010 +0/-0.025	.19 5	0.08 2	1,700	28,900 128,547	104,000 462,592	3.18 1.44
GR 60 SS, S, RS, SRS, RSS	3.7500 +0/-0.0005 95.3 +0/-0.13		4.7500 +0/-0.0008 120.7 +0/-0.20		2.000 50.80	4.7495 120.685	4.7508 120.718	+0/-0.0010 +0/-0.025	.19 5	0.10 3	1,020	25,450 113,202	92,300 410,550	3.38 1.53
GR 60					2.000 50.80	4.7495 120.685	4.7508 120.718	+0/-0.0010 +0/-0.025	.19 5	0.10 3	1,600	29,300 130,326	111,000 493,728	3.38 1.53

For sealed bearings, Outside diameter may be slightly oversize due to seal press fit.

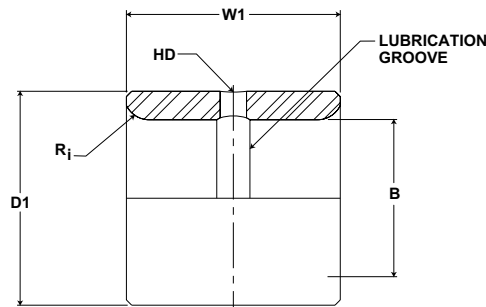
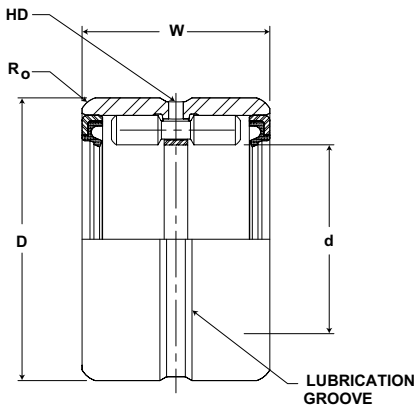
For D5 matching as D5 suffix to part number

* For bearing properly filled with #1 grease reduce speed by 50%

Metric dimensions for reference only.

Not all parts are available from stock. Please contact customer service for availability (800) 626-2120.

For more information on bearing capabilities outside of our standard offering, please contact Application Engineering (800) 626-2093.



GR SERIES (continued)

Part No.		B		D1		W1	HD	Ri	Recommended Shaft Diameter with inner ring			Inner Weight
Outer Ring & Roller Assembly	Separable Inner Ring Only	Bore Diameter		Outside Diameter		Width	Radial Lub. Hole Diameter	Max Shaft Radius to Clear				
		inch mm		inch mm		inch mm			inch mm			lb kg
		Nom	Tol.	Nom	Tol.	+0/-0.005 (+0/.13)	(Ref)	(Ref)	Rotating	Stationary	Tol.	
GR 36 N	MI 28 N	1.7500 44.468	+0/-0.0005 +0/-0.013	2.2489 57.145	+0/-0.0007 +0/-0.018	1.510 38.37	0.19 5	0.06 2	1.7505 44.5	1.7496 44.5	+0/-0.0005 +0/-0.013	.63 .29
GR 36 SS, S, RS, SRS, RSS	MI 28	1.7500 44.468	+0/-0.0005 +0/-0.013	2.2489 57.1	+0/-0.0007 +0/-0.018	1.760 44.72	0.19 5	0.06 2	1.7505 44.5	1.7497 44.5	+0/-0.0005 +0/-0.013	.74 .34
GR 36	MI 30	1.8750 47.644	+0/-0.0005 +0/-0.013	2.2489 57.1	+0/-0.0007 +0/-0.018	1.760 44.72	0.19 5	0.06 2	1.8755 47.7	1.8746 47.6	+0/-0.0005 +0/-0.013	.85 .39
GR 40 N	MI 32 N	2.0000 50.820	+0/-0.0005 +0/-0.013	2.2489 57.145	+0/-0.0007 +0/-0.018	1.510 38.37	0.19 5	0.08 2	2.0005 50.8	1.9996 50.8	+0/-0.0005 +0/-0.013	.74 .34
GR 40 SS, S, RS, SRS, RSS	MI 31	1.9375 49.232	+0/-0.0005 +0/-0.013	2.2489 57.1	+0/-0.0007 +0/-0.018	1.510 38.4	0.19 5	0.08 2	1.9380 49.2	1.9371 49.2	+0/-0.0005 +0/-0.013	.97 .44
GR 40	MI 32	2.0000 50.820	+0/-0.0005 +0/-0.013	2.2489 57.1	+0/-0.0007 +0/-0.018	1.760 44.72	0.19 5	0.08 2	2.0005 50.8	1.9996 50.8	+0/-0.0005 +0/-0.013	.87 .39
	MI 34	2.1250 53.996	+0/-0.0006 +0/-0.015	2.2489 57.1	+0/-0.0007 +0/-0.018	1.760 44.7	0.19 5	0.08 2	2.1258 54.0	2.1247 54.0	+0/-0.0008 +0/-0.020	1.00 .45
GR 44 N	MI 36 N	2.2500 57.173	+0/-0.0006 +0/-0.015	2.7489 69.850	+0/-0.0007 +0/-0.018	1.510 38.37	0.19 5	0.08 2	2.2508 57.2	2.2497 57.2	+0/-0.0008 +0/-0.020	.83 .36
GR 44 SS, S, RS, SRS, RSS	MI 35	2.1875 55.584	+0/-0.0006 +0/-0.015	2.7489 69.8	+0/-0.0007 +0/-0.018	1.510 38.4	0.19 5	0.08 2	2.1883 55.6	2.1872 55.6	+0/-0.0008 +0/-0.020	1.06 .48
GR 44	MI 36	2.2500 57.173	+0/-0.0006 +0/-0.015	2.7489 69.8	+0/-0.0007 +0/-0.018	1.760 44.72	0.19 5	0.08 2	2.2508 57.2	2.2497 57.2	+0/-0.0008 +0/-0.020	.97 .44
GR 48 N	MI 40 N	2.5000 63.525	+0/-0.0006 +0/-0.015	2.9989 76.202	+0/-0.0007 +0/-0.018	1.510 38.37	0.19 5	0.08 2	2.5008 63.5	2.4997 63.5	+0/-0.0008 +0/-0.020	.92 .43
GR 48 SS, S, RS, SRS, RSS	MI 38	2.3750 60.349	+0/-0.0006 +0/-0.015	2.9989 76.2	+0/-0.0007 +0/-0.018	1.760 44.72	0.19 5	0.08 2	2.3758 60.4	2.3747 60.3	+0/-0.0008 +0/-0.020	1.28 .58
GR 48	MI 39	2.4375 61.937	+0/-0.0006 +0/-0.015	2.9989 76.2	+0/-0.0007 +0/-0.018	1.510 38.37	0.19 5	0.08 2	2.4383 62.0	2.4372 61.9	+0/-0.0008 +0/-0.020	1.05 .47
	MI 40	2.5000 63.525	+0/-0.0006 +0/-0.015	2.9989 76.2	+0/-0.0007 +0/-0.018	1.760 44.72	0.19 5	0.08 2	2.5008 63.5	2.4997 63.5	+0/-0.0008 +0/-0.020	1.07 .48
GR 52 SS, S, RS, SRS, RSS	MI 42	2.6250 66.701	+0/-0.0006 +0/-0.015	3.2487 82.549	+0/-0.0009 +0/-0.023	1.760 44.72	0.19 5	0.08 2	2.6258 66.7	2.6247 66.7	+0/-0.0008 +0/-0.020	1.12 .51
GR 52	MI 44	2.7500 69.878	+0/-0.0006 +0/-0.015	3.2487 82.549	+0/-0.0009 +0/-0.023	1.760 44.72	0.19 5	0.08 2	2.7508 69.9	2.7497 69.9	+0/-0.0008 +0/-0.020	1.17 .53
GR 56 N	MI 48 N	3.0000 76.230	+0/-0.0006 +0/-0.015	3.4987 88.902	+0/-0.0009 +0/-0.023	1.760 44.72	0.25 6	0.08 2	3.0008 76.3	2.9997 76.2	+0/-0.0008 +0/-0.020	1.32 .55
GR 56 SS, S, RS, SRS, RSS	MI 46	2.8750 73.054	+0/-0.0006 +0/-0.015	3.4987 88.9	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.08 2	2.8758 73.1	2.8747 73.0	+0/-0.0008 +0/-0.020	1.30 .59
GR 56	MI 47	2.9375 74.642	+0/-0.0006 +0/-0.015	3.4987 88.9	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.08 2	2.9383 74.7	2.9372 74.6	+0/-0.0008 +0/-0.020	1.58 .72
	MI 48	3.0000 76.230	+0/-0.0006 +0/-0.015	3.4987 88.9	+0/-0.0009 +0/-0.023	2.010 51.1	0.25 6	0.08 2	3.0008 76.3	2.9997 76.2	+0/-0.0008 +0/-0.020	1.43 .65
GR 60 SS, S, RS, SRS, RSS	MI 50	3.1250 79.406	+0/-0.0006 +0/-0.015	3.7487 95.254	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.1260 79.4	3.1246 79.4	+0/-0.0010 +0/-0.025	1.88 .85
GR 60	MI 52	3.2500 82.583	+0/-0.0006 +0/-0.015	3.7487 95.254	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.2510 82.6	3.2496 82.6	+0/-0.0010 +0/-0.025	1.52 .69

McGILL® GUIDEROL® Bearings

Needle/Journal Bearings



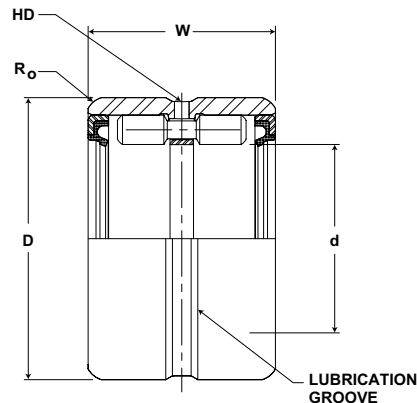
Basic Construction Type: Machined Race with full Complement of Needles

Rolling Elements: Center Guided Precision Needles

Bearing Material: Bearing Quality Steel

Seal Type: Rubber Lip

Lubrication: Sealed Bearings: Lithium Soap Grease NLGI #1
Unsealed Bearings: Rust Preventative



GR SERIES (continued)

Part No.	d		D		W	Housing Bore Diameter			HD	Ro	Limiting Speed (In Oil)*	Basic Dynamic Rating	Basic Static Rating	Outer & Roller Assembly Weight
Outer Ring & Roller Assembly	Shaft Diameter		Outside Diameter		Width				Radial Lub. Hole Diameter	Max Hsg Radius to Clear				
	inch mm		inch mm		inch mm	inch mm			inch mm		RPM	lb/N	lb/N	lb kg
	Nom	Tol.	Nom	Tol.	Tol +0/- .005 (+0/.13)	Rotating	Stationary	Tol.	(Ref)	(Ref)				
GR 64 SS, S, RS, SRS, RSS	4.0000	+0/- .0007	5.0000	+0/- .0010	2.000	4.9999	5.0011	+0/- .0015	.19	0.10	950	26,750	98,800	3.56
	101.6	+0/- .018	127.1	+0/- .025	50.80	127.047	127.078	+0/- .038	5	3		118,984	439,462	1.61
GR 64						4.9999	5.0011	+0/- .0015	.19	0.10	1,500	30,900	119,000	3.56
						127.047	127.078	+0/- .038	5	3		137,443	529,312	1.61
GR 68 SS, S, RS, SRS, RSS	4.2500	+0/- .0007	5.2500	+0/- .0010	2.000	5.2499	5.2511	+0/- .0015	.19	0.10	900	27,400	104,000	3.74
	108.0	+0/- .018	133.4	+0/- .025	50.80	133.400	133.430	+0/- .038	5	3		121,875	462,592	1.69
GR 68						5.2499	5.2511	+0/- .0015	.19	0.10	1,410	31,500	126,000	3.74
						133.400	133.430	+0/- .038	5	3		140,112	560,448	1.69
GR 72	4.5000	+0/- .0007	6.0000	+0/- .0010	2.250	5.9999	6.0011	+0/- .0015	.19	0.10	1,330	43,400	145,000	7.13
	114.3	+0/- .018	152.5	+0/- .025	57.15	152.457	152.488	+0/- .038	5	3		193,043	644,960	3.23
GR 80	5.0000	+0/- .0007	6.5000	+0/- .0010	2.250	6.4999	6.5011	+0/- .0015	.19	0.10	1,200	48,800	161,000	7.78
	127.1	+0/- .018	165.2	+0/- .025	57.15	165.162	165.193	+0/- .038	5	3		217,062	716,128	3.53
						6.4999	6.5011	+0/- .0015	.19	0.10	1,200	48,800	161,000	7.78
						165.162	165.193	+0/- .038	5	3		217,062	716,128	3.53
GR 88 N	5.5000	+0/- .0007	7.0000	+0/- .0010	2.500	4.7495	4.7508	+0/- .0015	.25	0.10	1,090	60,700	171,000	10.40
	139.8	+0/- .018	177.9	+0/- .025	63.50	120.685	120.718	+0/- .038	6	3		269,994	760,608	4.73
GR 88					3.000	4.7495	4.7508	+0/- .0015	.25	0.10	1,090	65,000	205,000	11.82
					76.20	120.685	120.718	+0/- .038	6	3		289,120	911,840	5.36
GR 96 N	6.0000	+0/- .0010	7.5000	+0/- .0012	2.500	5.2499	5.2511	+0/- .0015	.25	0.12	1,000	65,700	223,000	11.08
	152.5	+0/- .025	190.6	+0/- .030	63.50	133.400	133.430	+0/- .038	6	3		292,234	991,904	5.02
GR 96					3.000	5.2499	5.2511	+0/- .0015	.25	0.12	1,000	71,400	283,000	12.69
					76.20	133.400	133.430	+0/- .038	6	3		317,587	1,258,784	5.76
GR 104 N	6.5000	+0/- .0010	8.0000	+0/- .0012	2.500	5.9999	6.0011	+0/- .0015	.25	0.12	930	68,900	242,000	11.85
	165.2	+0/- .025	203.3	+0/- .030	63.50	152.457	152.488	+0/- .038	6	3		306,467	1,076,416	5.37
GR 104					3.000	5.9999	6.0011	+0/- .0015	.25	0.12	930	75,000	308,000	13.55
					76.20	152.457	152.488	+0/- .038	6	3		333,600	1,369,984	6.15
GR 116	7.2500	+0/- .0010	9.1250	+0/- .0012	3.000	9.1248	9.1261	+0/- .0015	.25	0.12	840	83,900	332,000	19.32
	184.2	+0/- .025	231.9	+0/- .030	76.20	231.861	231.894	+0/- .038	6	3		373,187	1,476,736	8.76
GR 124	7.7500	+0/- .0010	9.6250	+0/- .0012	3.000	6.6250	6.6265	+0/- .0020	.25	0.12	770	86,200	355,000	19.80
	196.9	+0/- .025	244.6	+0/- .030	76.20	168.341	168.379	+0/- .051	6	3		383,418	1,579,040	8.97
GR 132	8.2500	+0/- .0010	10.1250	+0/- .0012	3.000	10.1250	10.1265	+0/- .0020	.25	0.12	730	88,700	378,000	21.63
	209.6	+0/- .025	257.3	+0/- .030	76.20	257.276	257.314	+0/- .051	6	3		394,538	1,681,344	9.81
GR 140	8.7500	+0/- .0010	10.6250	+0/- .0014	3.000	10.6250	10.6265	+0/- .0020	.25	0.16	690	91,500	401,000	22.73
	222.3	+0/- .025	270.0	+0/- .036	76.20	269.981	270.019	+0/- .051	6	4		406,992	1,783,648	10.31
GR 148	9.2500	+0/- .0010	11.1250	+0/- .0014	3.000	11.1250	11.1265	+0/- .0020	.25	0.16	650	93,500	423,000	24.00
	235.0	+0/- .025	282.7	+0/- .036	76.20	282.686	282.724	+0/- .051	6	4		415,888	1,881,504	10.88

For sealed bearings, Outside diameter may be slightly oversize due to seal press fit.

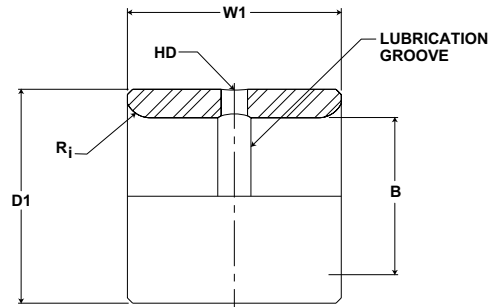
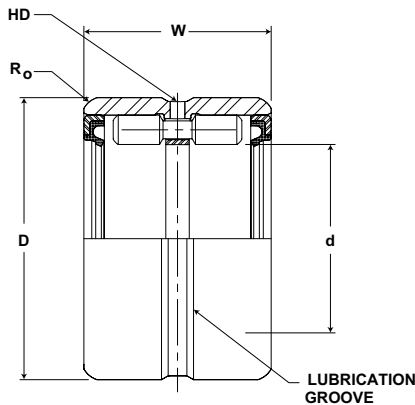
For DS matching as DS suffix to part number

* For bearing properly filled with #1 grease reduce speed by 50%

Metric dimensions for reference only.

Not all parts are available from stock. Please contact customer service for availability (800) 626-2120.

For more information on bearing capabilities outside of our standard offering, please contact Application Engineering (800) 626-2093.



GR SERIES (continued)

Part No.		B		D1		W1	HD	Ri	Recommended Shaft Diameter with inner ring			Inner Weight
Outer Ring & Roller Assembly	Separable Inner Ring Only	Bore Diameter		Outside Diameter		Width	Radial Lub. Hole Diameter	Max Shaft Radius to Clear				
		inch mm		inch mm		inch mm			inch mm			lb kg
		Nom	Tol.	Nom	Tol.	+0/-0.005 (+0/.13)	(Ref)	(Ref)	Rotating	Stationary	Tol.	
GR 64 SS, S, RS, SRS, RSS	MI 54	3.3750 85.759	+0/-0.0008 +0/-0.020	3.9985 101.602	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.3760 85.8	3.3746 85.7	+0/-0.0010 +0/-0.025	2.04 .93
GR 64	MI 56	3.5000 88.935	+0/-0.0008 +0/-0.020	3.9985 101.602	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.5010 89.0	3.4996 88.9	+0/-0.0010 +0/-0.025	1.63 .74
GR 68 SS, S, RS, SRS, RSS	MI 58	3.6250 92.111	+0/-0.0008 +0/-0.020	4.2485 107.954	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.6260 92.1	3.6246 92.1	+0/-0.0010 +0/-0.025	1.70 .77
GR 68	MI 60	3.7500 95.288	+0/-0.0008 +0/-0.020	4.2485 107.954	+0/-0.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.7510 95.3	3.7496 95.3	+0/-0.0010 +0/-0.025	1.75 .79
GR 72	MI 62	3.8750 98.464	+0/-0.0008 +0/-0.020	4.4985 114.307	+0/-0.0009 +0/-0.023	2.260 57.43	0.25 6	0.10 3	3.8760 98.5	3.8746 98.5	+0/-0.0010 +0/-0.025	3.25 1.47
GR 80	MI 64	4.0000 101.640	+0/-0.0008 +0/-0.020	4.9985 127.012	+0/-0.0010 +0/-0.025	2.260 57.43	0.25 6	0.10 3	4.0010 101.7	3.9996 101.6	+0/-0.0010 +0/-0.025	4.38 1.99
	MI 68	4.2500 107.993	+0/-0.0008 +0/-0.020	4.9985 127.012	+0/-0.0010 +0/-0.025	2.260 57.43	0.25 6	0.10 3	4.2510 108.0	4.2496 108.0	+0/-0.0010 +0/-0.025	5.24 2.37
GR 88 N	MI 72 N	4.5000 114.345	+0/-0.0008 +0/-0.020	5.4985 139.717	+0/-0.0010 +0/-0.025	2.515 63.91	0.25 6	0.10 3	4.5010 114.4	4.4996 114.3	+0/-0.0010 +0/-0.025	5.43 2.47
GR 88	MI 72	4.5000 114.345	+0/-0.0008 +0/-0.020	5.4985 139.717	+0/-0.0010 +0/-0.025	3.015 76.61	0.25 6	0.10 3	4.5010 114.4	4.4996 114.3	+0/-0.0010 +0/-0.025	5.97 2.71
GR 96 N	MI 80 N	5.0000 127.050	+0/-0.0010 +0/-0.025	5.9983 152.417	+0/-0.0010 +0/-0.025	2.515 63.91	0.31 8	0.12 3	5.0010 127.1	4.9995 127.0	+0/-0.0010 +0/-0.025	5.97 2.71
GR 96	MI 80	5.0000 127.050	+0/-0.0010 +0/-0.025	5.9983 152.417	+0/-0.0010 +0/-0.025	3.015 76.61	0.31 8	0.12 3	5.0010 127.1	4.9995 127.0	+0/-0.0010 +0/-0.025	7.12 3.23
GR 104 N	MI 88 N	5.5000 139.755	+0/-0.0010 +0/-0.025	6.4983 165.122	+0/-0.0010 +0/-0.025	2.515 63.91	0.31 8	0.12 3	5.5010 139.8	5.4995 139.7	+0/-0.0010 +0/-0.025	6.30 2.88
GR 104	MI 88	5.5000 139.755	+0/-0.0010 +0/-0.025	6.4983 165.122	+0/-0.0010 +0/-0.025	3.015 76.61	0.31 8	0.12 3	5.5010 139.8	5.4995 139.7	+0/-0.0010 +0/-0.025	7.56 3.43
GR 116	MI 96	6.0000 152.460	+0/-0.0010 +0/-0.025	7.2481 184.174	+0/-0.0012 +0/-0.030	3.015 76.61	0.31 8	0.12 3	6.0012 152.5	5.9995 152.4	+0/-0.0012 +0/-0.030	11.06 5.03
GR 124	MI 104	6.5000 165.165	+0/-0.0010 +0/-0.025	7.7481 196.879	+0/-0.0012 +0/-0.030	3.015 76.61	0.31 8	0.12 3	6.5012 165.2	6.4995 165.2	+0/-0.0012 +0/-0.030	11.99 5.39
GR 132	MI 112	7.0000 177.870	+0/-0.0010 +0/-0.025	8.2481 209.584	+0/-0.0012 +0/-0.030	3.015 76.61	0.31 8	0.12 3	7.0012 177.9	6.9995 177.9	+0/-0.0012 +0/-0.030	12.70 5.77
GR 140	MI 120	7.5000 190.575	+0/-0.0012 +0/-0.030	8.7480 222.287	+0/-0.0012 +0/-0.030	3.015 76.61	0.31 8	0.16 4	7.5012 190.6	7.4995 190.6	+0/-0.0012 +0/-0.030	13.60 6.17
GR 148	MI 128	8.0000 203.280	+0/-0.0012 +0/-0.030	9.2480 234.992	+0/-0.0012 +0/-0.030	3.015 76.61	0.31 8	0.16 4	8.0012 203.3	7.9995 203.3	+0/-0.0012 +0/-0.030	14.40 6.55