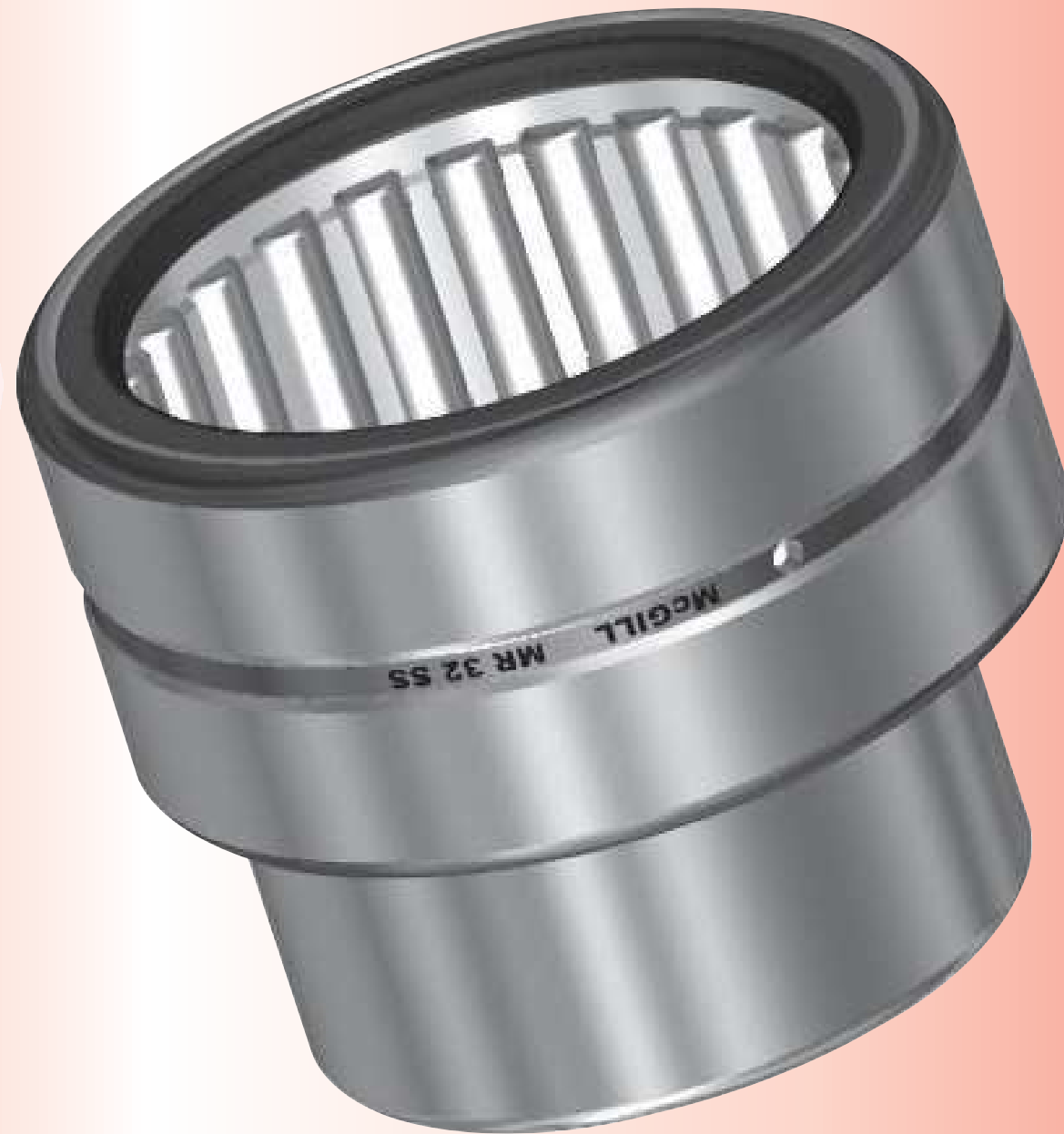






Needle

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

◐ ◑ ◒ ◓ ◔

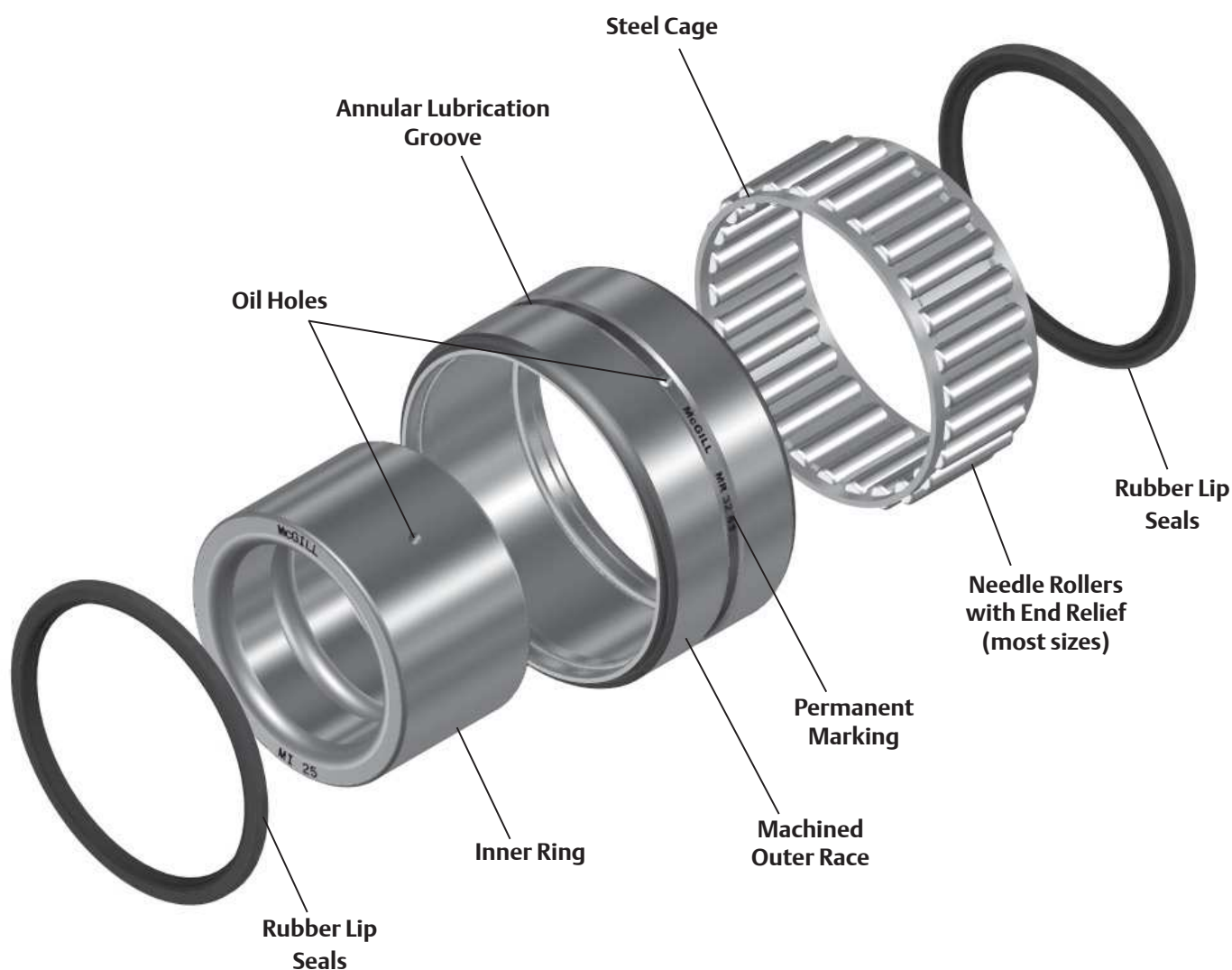
Poor ← → **Best**

Note: Cost ranges are approximate in the secondary dimension

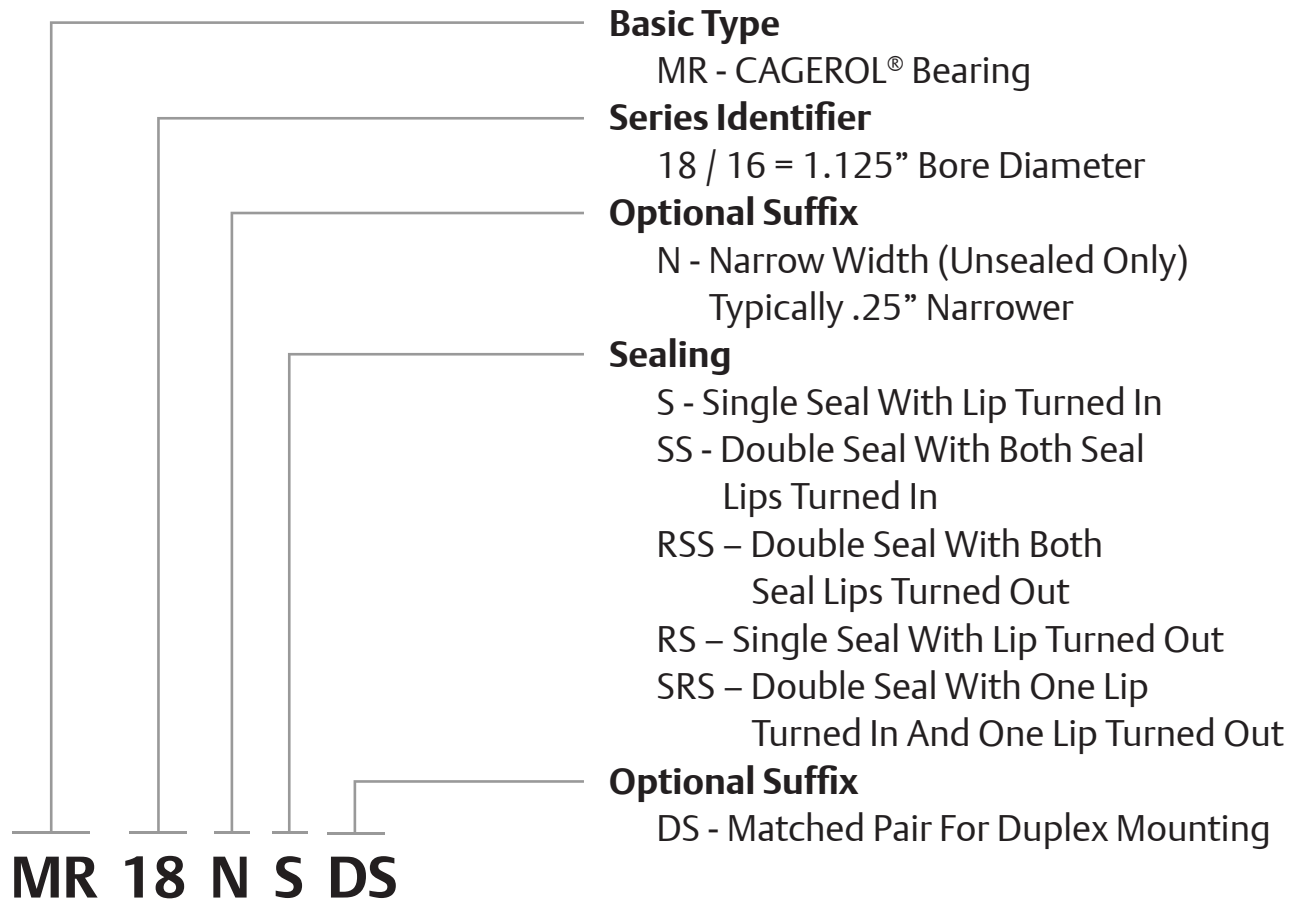
McGILL® CAGEROL® Bearings

McGill CAGEROL®

McGill CAGEROL® machined race needle bearings are manufactured from bearing quality steel. Most sizes use crowned, or end relieved, rollers to help reduce end stresses and allows for greater misalignment. The rollers are separated by a steel retainer (cage) to help achieve higher speeds and provide a lubricant reservoir. CAGEROL® 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.



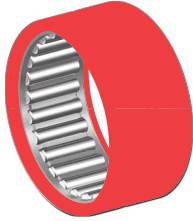
CAGEROL® Nomenclature



Inner Ring



Features and Benefits



Machined Outer Race

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



Needle Rollers with End Relief (Most Sizes)

Precision Needle Rollers provide high radial load capabilities in small radial envelope dimension. End relief features help reduce raceway stress when shaft misalignment occurs.



Steel Cage

Welded construction minimizes roller radial play for ease of assembly and provides roller guidance helping to reduce friction. The spacing provided by the retainer contributes to the high speed capabilities and lubricant reservoir within the bearing envelope.



Annular Lubrication Groove

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

Factory Grease Fill

The Sealed CAGEROL 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.



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, when applicable 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.



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® CAGEROL® Bearings

Needle/Journal Bearings



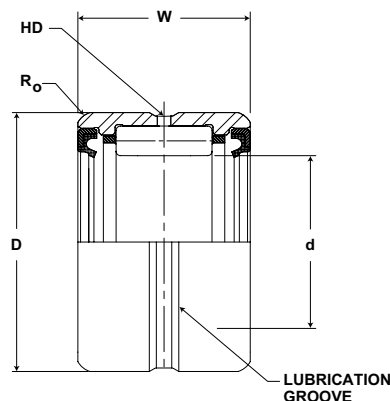
Basic Construction Type: Machined Race with Optional Separable Inner Ring

Rolling Elements: Cage Guided Precision Needles

Bearing Material: Bearing Quality Steel

Seal Type: Rubber Lip

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



MR 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
McGill Outer Ring & Roller Assembly	Military No.	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.	Nom	Tol.	Rotating	Stationary	Tol.	(Ref)	(Ref)				
MR 10 N	MS 51961-1 MS 51961-1	.6250 +0/- .0005 15.9 +0/- .013		1.1250 +0/- .0005 28.6 +0/- .013		.750 19.05		1.1247 28.579	1.1257 28.604	+0/- .0007 +0/- .018	.08 2	0.03 1	19250	4,320 19,215	4,300 19,126	.12 .05
MR 10 SS, S, RS, SRS, RSS								1.1247 28.579	1.1257 28.604	+0/- .0007 +0/- .018	.08 2	0.03 1	19250	4,320 19,215	4,300 19,126	.12 .05
MR 10						1.000 25.40		1.1247 28.579	1.1257 28.604	+0/- .0007 +0/- .018	.08 2	0.03 1	6100	4,320 19,215	4,300 19,126	.15 .07
								1.1247 28.579	1.1257 28.604	+0/- .0007 +0/- .018	.08 2	0.03 1	19250	5,930 26,377	6,500 28,912	.15 .07
MR 12 N	MS 51961-2 MS 51961-2	.7500 +0/- .0005 19.1 +0/- .013		1.2500 +0/- .0005 31.8 +0/- .013		.750 19.05		1.2497 31.755	1.2507 31.780	+0/- .0007 +0/- .018	.08 2	0.04 1	16000	4,990 22,196	5,400 24,019	.14 .06
MR 12 SS, S, RS, SRS, RSS								1.2497 31.755	1.2507 31.780	+0/- .0007 +0/- .018	.08 2	0.04 1	16000	4,990 22,196	5,400 24,019	.14 .06
MR 12	MS 51961-3					1.000 25.40		1.2497 31.755	1.2507 31.780	+0/- .0007 +0/- .018	.08 2	0.04 1	5100	4,990 22,196	5,400 24,019	.17 .08
								1.2497 31.755	1.2507 31.780	+0/- .0007 +0/- .018	.08 2	0.04 1	16000	6,830 30,380	8,100 36,029	.17 .08
MR 14 N	MS 51961-5 MS 51961-5	.8750 +0/- .0005 22.2 +0/- .013		1.3750 +0/- .0005 34.9 +0/- .013		.750 19.05		1.3747 34.931	1.3757 34.957	+0/- .0007 +0/- .018	.08 2	0.04 1	13750	5,280 23,485	6,000 26,688	.16 .07
MR 14 SS, S, RS, SRS, RSS								1.3747 34.931	1.3757 34.957	+0/- .0007 +0/- .018	.08 2	0.04 1	13750	5,280 23,485	6,000 26,688	.16 .07
MR 14	MS 51961-6					1.000 25.40		1.3747 34.931	1.3757 34.957	+0/- .0007 +0/- .018	.08 2	0.04 1	4400	5,280 23,485	6,000 26,688	.21 .09
								1.3747 34.931	1.3757 34.957	+0/- .0007 +0/- .018	.08 2	0.04 1	13750	7,240 32,204	9,000 40,032	.21 .09
MR 16 N	MS 51961-8 MS 51961-8	1.0000 +0/- .0005 25.4 +0/- .013		1.5000 +0/- .0005 38.1 +0/- .013		.750 19.05		1.4997 38.107	1.5007 38.133	+0/- .0007 +0/- .018	.08 2	0.04 1	12000	5,840 25,976	7,100 31,581	.20 .09
MR 16 SS, S, RS, SRS, RSS								1.4997 38.107	1.5007 38.133	+0/- .0007 +0/- .018	.08 2	0.04 1	12000	5,840 25,976	7,100 31,581	.20 .09
MR 16	MS 51961-9					1.000 25.40		1.4997 38.107	1.5007 38.133	+0/- .0007 +0/- .018	.08 2	0.04 1	3800	5,840 25,976	7,100 31,581	.23 .10
								1.4997 38.107	1.5007 38.133	+0/- .0007 +0/- .018	.08 2	0.04 1	12000	8,000 35,584	10,600 47,149	.23 .10
MR 18 N	MS 51961-11 MS 51961-11	1.1250 +0/- .0005 28.6 +0/- .013		1.6250 +0/- .0005 41.3 +0/- .013		.750 19.05		1.6247 41.284	1.6257 41.309	+0/- .0007 +0/- .018	.09 2	0.04 1	10700	8,720 38,787	12,200 54,266	.24 .11
MR 18 SS, S, RS, SRS, RSS								1.6247 41.284	1.6257 41.309	+0/- .0007 +0/- .018	.09 2	0.04 1	10700	8,720 38,787	12,200 54,266	.24 .11
MR 18	MS 51961-12					1.000 25.40		1.6247 41.284	1.6257 41.309	+0/- .0007 +0/- .018	.09 2	0.04 1	3400	8,720 38,787	12,200 54,266	.32 .15
								1.6247 41.284	1.6257 41.309	+0/- .0007 +0/- .018	.09 2	0.04 1	10700	10,900 48,483	16,300 72,502	.32 .15
MR 20 N	MS 51961-14	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	9600	9,020 40,121	13,100 58,269	.27 .12
MR 20 SS, S, RS, SRS, RSS								1.7497 44.460	1.7507 44.485	+0/- .0007 +0/- .018	.09 2	0.04 1	3050	9,020 40,121	13,100 58,269	.34 .15
MR 20	MS 51961-15					1.250 31.75		1.7497 44.460	1.7507 44.485	+0/- .0007 +0/- .018	.09 2	0.04 1	9600	11,300 50,262	17,500 77,840	.34 .15

Metric dimensions for reference only.

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%

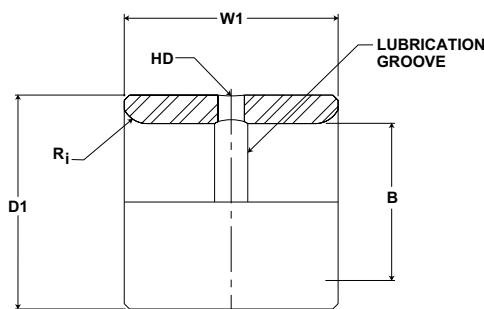
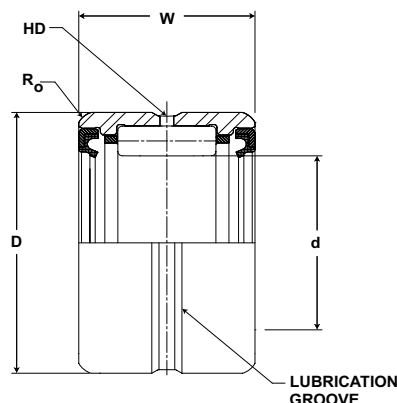
Bearing Selection
Page C-3

Nomenclature Aid
Page C-6

Features & Benefits
Page C-7

Product Options
Page C-8

Technical Engineering
Page C-45



MR SERIES

Part No.		Military No.	B		D1		W1	HD	Ri	Recommended Shaft Diameter with inner ring			Inner Weight
McGill 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/- .005 (+0/.13)	(Ref)	(Ref)	Rotating	Stationary	Tol.	
MR 10 N	MI 6 N	MS 500072-1	.3750 9.529	+0/- .0004 +0/- .010	.6245 15.9	+0/- .0004 +0/- .010	.760 19.3	.09 2.4	.25 6.4	.3755 9.541	.3747 9.521	+0/- .0005 +0/- .013	.05 .02
	MI 7 N		.4375 11.117	+0/- .0004 +0/- .010	.6245 15.9	+0/- .0004 +0/- .010	.760 19.3	.09 2.4	.25 6.4	.4380 11.130	.4372 11.109	+0/- .0005 +0/- .013	.04 .02
MR 10 SS, S, RS, SRS, RSS	MI 6		.3750 9.529	+0/- .0004 +0/- .010	.6245 15.9	+0/- .0004 +0/- .010	1.010 25.7	.09 2.4	.25 6.4	.3755 9.541	.3747 9.521	+0/- .0005 +0/- .013	.05 .02
MR 10			.3750 9.529	+0/- .0004 +0/- .010	.6245 15.9	+0/- .0004 +0/- .010	1.010 25.7	.09 2.4	.25 6.4	.3755 9.541	.3747 9.521	+0/- .0005 +0/- .013	.05 .02
MR 12 N	MI 8 N	MS 500072-2	.5000 12.705	+0/- .0004 +0/- .010	.7493 19.0	+0/- .0005 +0/- .013	.760 19.3	.13 3.2	.40 10.2	.5005 12.718	.4997 12.697	+0/- .0005 +0/- .013	.04 .02
	MI 9 N		.5625 14.293	+0/- .0004 +0/- .010	.7493 19.0	+0/- .0005 +0/- .013	.760 19.3	.13 3.2	.40 10.2	.5630 14.306	.5623 14.286	+0/- .0005 +0/- .013	.04 .02
MR 12 SS, S, RS, SRS, RSS	MI 8	MS 500072-3	.5000 12.705	+0/- .0004 +0/- .010	.7493 19.0	+0/- .0005 +0/- .013	1.010 25.7	.13 3.2	.40 10.2	.5005 12.718	.4997 12.697	+0/- .0005 +0/- .013	.06 .03
MR 12			.5000 12.705	+0/- .0004 +0/- .010	.7493 19.0	+0/- .0005 +0/- .013	1.010 25.7	.13 3.2	.40 10.2	.5005 12.718	.4997 12.697	+0/- .0005 +0/- .013	.06 .03
MR 14 N	MI 10 N	MS 500072-4	.6250 15.881	+0/- .0004 +0/- .010	.8743 22.2	+0/- .0005 +0/- .013	.760 19.3	.13 3.2	.40 10.2	.6255 15.894	.6247 15.874	+0/- .0005 +0/- .013	.06 .03
	MI 11 N		.6875 17.469	+0/- .0004 +0/- .010	.8743 22.2	+0/- .0005 +0/- .013	.760 19.3	.13 3.2	.40 10.2	.6880 17.482	.6872 17.462	+0/- .0005 +0/- .013	.05 .02
MR 14 SS, S, RS, SRS, RSS	MI 10		.6250 15.881	+0/- .0004 +0/- .010	.8743 22.2	+0/- .0005 +0/- .013	1.010 25.7	.13 3.2	.40 10.2	.6255 15.894	.6247 15.874	+0/- .0005 +0/- .013	.08 .04
MR 14			.6250 15.881	+0/- .0004 +0/- .010	.8743 22.2	+0/- .0005 +0/- .013	1.010 25.7	.13 3.2	.40 10.2	.6255 15.894	.6247 15.874	+0/- .0005 +0/- .013	.08 .04
MR 16 N	MI 12 N	MS 500072-5	.7500 19.058	+0/- .0004 +0/- .010	.9993 25.4	+0/- .0005 +0/- .013	.760 19.3	.13 3.2	.40 10.2	.7505 19.070	.7497 19.050	+0/- .0005 +0/- .013	.07 .03
	MI 13 N	MS 500072-6	.8125 20.646	+0/- .0005 +0/- .013	.9993 25.4	+0/- .0005 +0/- .013	.760 19.3	.13 3.2	.40 10.2	.8130 20.658	.8121 20.638	+0/- .0005 +0/- .013	.07 .03
MR 16 SS, S, RS, SRS, RSS	MI 12		.7500 19.058	+0/- .0004 +0/- .010	.9993 25.4	+0/- .0005 +0/- .013	1.010 25.7	.13 3.2	.40 10.2	.7505 19.070	.7497 19.050	+0/- .0005 +0/- .013	.10 .05
MR 16	MI 13	MS 500072-7	.8125 20.646	+0/- .0005 +0/- .013	.9993 25.4	+0/- .0005 +0/- .013	1.010 25.7	.13 3.2	.40 10.2	.8130 20.658	.8121 20.638	+0/- .0005 +0/- .013	.11 .05
MR 18 N	MI 14 N	MS 500072-8	.8750 22.234	+0/- .0005 +0/- .013	1.124 28.6	+0/- .0005 +0/- .013	1.010 25.7	.13 3.2	.40 10.2	.8755 22.246	.8746 22.226	+0/- .0005 +0/- .013	.11 .05
	MI 15 N	MS 500072-9	.9375 23.822	+0/- .0005 +0/- .013	1.124 28.6	+0/- .0005 +0/- .013	1.010 25.7	.13 3.2	.40 10.2	.9380 23.835	.9371 23.814	+0/- .0005 +0/- .013	.11 .05
MR 18 SS, S, RS, SRS, RSS	MI 14		.8750 22.234	+0/- .0005 +0/- .013	1.124 28.6	+0/- .0005 +0/- .013	1.260 32.0	.13 3.2	.40 10.2	.8755 22.246	.8746 22.226	+0/- .0005 +0/- .013	.13 .06
MR 18			.8750 22.234	+0/- .0005 +0/- .013	1.124 28.6	+0/- .0005 +0/- .013	1.260 32.0	.13 3.2	.40 10.2	.8755 22.246	.8746 22.226	+0/- .0005 +0/- .013	.13 .06
MR 20 N	MI 16 N	MS 500072-10	1.0000 25.410	+0/- .0005 +0/- .013	1.249 31.7	+0/- .0006 +0/- .015	1.010 25.7	.13 3.2	.40 10.2	1.0005 25.423	0.9996 25.402	+0/- .0005 +0/- .013	.13 .06
MR 20 SS, S, RS, SRS, RSS	MI 16		1.0000 25.410	+0/- .0005 +0/- .013	1.249 31.7	+0/- .0006 +0/- .015	1.260 32.0	0.13 3	0.40 10	1.001 25.4	1.000 25.4	+0/- .0005 +0/- .013	.16 .07
MR 20			1.0000 25.410	+0/- .0005 +0/- .013	1.249 31.7	+0/- .0006 +0/- .015	1.260 32.0	0.13 3	0.40 10	1.001 25.4	1.000 25.4	+0/- .0005 +0/- .013	.16 .07

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.

McGILL® CAGEROL® Bearings

Needle/Journal Bearings



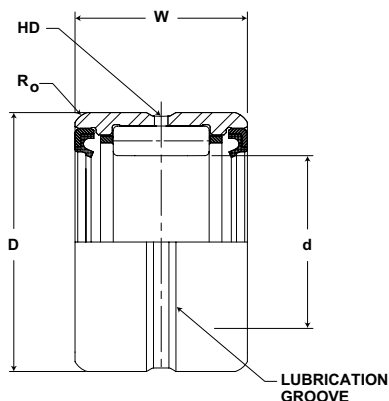
Basic Construction Type: Machined Race With Optional Separable Inner Ring

Rolling Elements: Cage Guided Precision Needles

Bearing Material: Bearing Quality Steel

Seal Type: Rubber Lip

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



MR SERIES (continued)

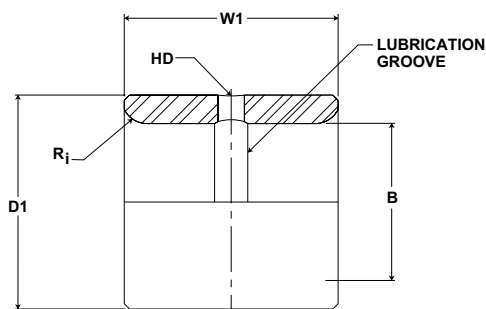
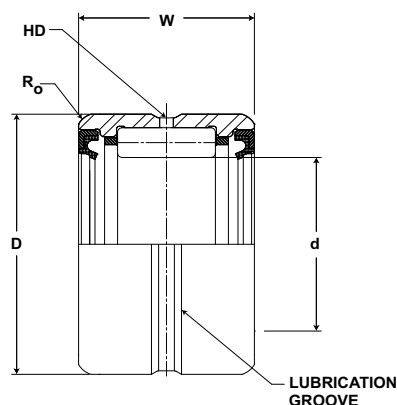
Part No.		d		D		W	Housing Bore Diameter			HD	Ro	Limiting Speed (In Oil)*	Basic Dynamic Rating	Basic Static Rating	Outer & Roller Assembly Weight
McGill Outer Ring & Roller Assembly	Military No.	Shaft Diameter		Outside Diameter		Width				Radial Lub. Hole Diameter	Max Hsg Radius to Clear				
		inch mm		inch mm		inch mm	inch mm			RPM	lb/N				
		Nom	Tol.	Nom	Tol.	Tol +0/- .005 (+0/- .13)	Rotating	Stationary	Tol.			(Ref)	(Ref)		
MR 22 N	MS 51961-18					1.000 25.40	1.8747 47.636	1.8757 47.662	+0/- .0007 +0/- .018	.09 2	0.04 1	8750	9,640 42,879	14,700 65,386	.31 .14
MR 22 SS, S, RS, SRS, RSS		1.3750+0/- .0005 34.9 +0/- .013		1.8750 +0/- .0006 47.6 +0/- .015		1.250 31.75	1.8747 47.636	1.8757 47.662	+0/- .0007 +0/- .018	.09 2	0.04 1	2800	9,640 42,879	14,700 65,386	.36 .16
MR 22	MS 51961-19						1.8747 47.636	1.8757 47.662	+0/- .0007 +0/- .018	.09 2	0.04 1	8750	12,100 53,821	19,700 87,626	.36 .16
MR 24 N	MS 51961-21					1.000 25.40	2.0621 52.398	2.0632 52.426	+0/- .0007 +0/- .018	.09 2	0.06 2	8000	10,300 45,814	15,500 68,944	.41 .19
MR 24 SS, S, RS, SRS, RSS		1.5000+0/- .0005 38.1 +0/- .013		2.0625 +0/- .0006 52.4 +0/- .015		1.250 31.75	2.0621 52.398	2.0632 52.426	+0/- .0007 +0/- .018	.09 2	0.06 2	2500	10,300 45,814	15,500 68,944	.47 .21
MR 24	MS 51961-22						2.0621 52.398	2.0632 52.426	+0/- .0007 +0/- .018	.09 2	0.06 2	8000	13,000 57,824	20,800 92,518	.47 .21
MR 26 N	MS 51961-24					1.000 25.40	2.1871 55.574	2.1882 55.602	+0/- .0007 +0/- .018	.09 2	0.06 2	7400	10,600 47,149	16,400 72,947	.46 .21
MR 26 SS, S, RS, SRS, RSS		1.6250+0/- .0005 41.3 +0/- .013		2.1875 +0/- .0006 55.6 +0/- .015		1.250 31.75	2.1871 55.574	2.1882 55.602	+0/- .0007 +0/- .018	.09 2	0.06 2	2350	10,600 47,149	16,400 72,947	.51 .23
MR 26	MS 51961-25						2.1871 55.574	2.1882 55.602	+0/- .0007 +0/- .018	.09 2	0.06 2	7400	13,300 59,158	22,100 98,301	.51 .23
MR 28 N	MS 51961-27					1.000 25.40	2.3121 58.750	2.3132 58.778	+0/- .0007 +0/- .018	.09 2	0.06 2	6850	11,200 49,818	18,100 80,509	.47 .21
MR 28 SS, S, RS, SRS, RSS		1.7500+0/- .0005 44.5 +0/- .013		2.3125 +0/- .0006 58.8 +0/- .015		1.250 31.75	2.3121 59	2.3132 59	+0/- .0007 +0/- .018	.09 2	0.06 2	2200	11,200 49,818	18,100 80,509	.55 .25
MR 28	MS 51961-28 MS 51961-28						2.3121 59	2.3132 59	+0/- .0007 +0/- .018	.09 2	0.06 2	6850	14,100 62,717	24,400 108,531	.55 .25
MR 30 SS, S, RS, SRS, RSS		1.8750+0/- .0005 47.6 +0/- .013		2.4375 +0/- .0006 61.9 +0/- .015		1.250 31.75	2.4371 61.927	2.4382 61.955	+0/- .0007 +0/- .018	.09 2	0.06 2	2040	11,400 50,707	19,000 84,512	.59 .27
MR 30	MS 51961-29						2.4371 62	2.4382 62	+0/- .0007 +0/- .018	.09 2	0.06 2	6400	14,400 64,051	25,600 113,869	.59 .27
MR 31		1.9375+0/- .0005 49.2 +0/- .013		2.5000 +0/- .0006 63.5 +0/- .015		1.250 31.75	2.4996 63.515	2.5007 63.543	+0/- .0007 +0/- .018	.09 2	0.06 2	6200	12,400 55,155	22,400 99,635	.60 .27
MR 32 N						1.000 25.40	2.5621 65.103	2.5632 65.131	+0/- .0007 +0/- .018	.09 2	0.06 2	6000	12,000 53,376	20,700 92,074	.55 .25
MR 32 SS, S, RS, SRS, RSS		2.0000+0/- .0005 50.8 +0/- .013		2.5625 +0/- .0006 65.1 +0/- .015		1.250 31.75	2.5621 65	2.5632 65	+0/- .0007 +0/- .018	.09 2	0.06 2	1900	12,000 53,376	20,700 92,074	.61 .28
MR 32	MS 51961-30 MS 51961-30						2.5621 65	2.5632 65	+0/- .0007 +0/- .018	.09 2	0.06 2	6000	15,200 67,610	27,900 124,099	.61 .28
MR 36 N	MS 51961-31					1.500 38.10	2.9996 76.220	3.0007 76.248	+0/- .0007 +0/- .018	.13 3	0.08 2	5350	22,400 99,635	39,100 173,917	1.13 .51
MR 36 SS, S, RS, SRS, RSS		2.2500+0/- .0005 57.2 +0/- .013		3.0000 +0/- .0006 76.2 +0/- .015		1.750 44.45	2.9996 76	3.0007 76	+0/- .0007 +0/- .018	.13 3	0.08 2	1700	22,400 99,635	39,100 173,917	1.32 .59
MR 36	MS 51961-32						2.9996 76	3.0007 76	+0/- .0007 +0/- .018	.13 3	0.08 2	5350	26,000 115,648	47,400 210,835	1.32 .59

Metric dimensions for reference only.

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%



MR SERIES (continued)

Part No.		Military No.	B		D1		W1	HD	Ri	Recommended Shaft Diameter with inner ring			Inner Weight
McGill 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/- .005 (+0/.13)	(Ref)	(Ref)	Rotating	Stationary	Tol.	
MR 22 N	MI 18 N	MS 500072-12	1.1250 28.586	+0/- .0005 +0/- .013	1.374 34.9	+0/- .0006 +0/- .015	1.010 25.7	.13 3.2	.40 10.2	1.1255 28.599	1.1246 28.579	+0/- .0005 +0/- .013	.14 .06
MR 22 SS, S, RS, SRS, RSS	MI 17		1.0625 26.998	+0/- .0005 +0/- .013	1.374 34.9	+0/- .0006 +0/- .015	1.260 32.0	0.13 3	0.40 10	1.0630 27.011	1.0621 26.991	+0/- .0005 +0/- .013	.16 .07
MR 22	MI 18	MS 500072-13	1.1250 28.586	+0/- .0005 +0/- .013	1.374 34.9	+0/- .0006 +0/- .015	1.260 32.0	0.13 3	0.40 10	1.1255 28.599	1.1246 28.579	+0/- .0005 +0/- .013	.17 .08
MR 24 N	MI 20 N	MS 500072-15	1.2500 31.763	+0/- .0005 +0/- .013	1.499 38.1	+0/- .0006 +0/- .015	1.010 25.7	.13 3.2	.06 1.5	1.2505 31.775	1.2496 31.755	+0/- .0005 +0/- .013	.19 .09
MR 24 SS, S, RS, SRS, RSS	MI 19	MS 500072-16	1.250 31.8	+0/- .0005 +0/- .013	1.499 38.1	+0/- .0006 +0/- .015	1.260 32.0	.13 3.2	.06 1.5	1.2505 31.775	1.2497 31.755	+0/- .0005 +0/- .013	.24 .11
	MI 20	MS 500072-14	1.1875 30.174	+0/- .0005 +0/- .013	1.499 38.1	+0/- .0006 +0/- .015	1.260 32.0	.13 3.2	.06 1.5	1.1880 30.187	1.1871 30.167	+0/- .0005 +0/- .013	.22 .09
MR 26 N	MI 21 N	MS 500072-17	1.3125 33.351	+0/- .0005 +0/- .013	1.624 41.3	+0/- .0006 +0/- .015	1.010 25.7	.13 3.2	.06 1.5	1.3130 33.363	1.3121 33.343	+0/- .0005 +0/- .013	.20 .09
MR 26 SS, S, RS, SRS, RSS	MI 21		1.3125 33.351	+0/- .0005 +0/- .013	1.624 41.3	+0/- .0006 +0/- .015	1.260 32.0	0.13 3	0.06 2	1.3130 33.363	1.3122 33.343	+0/- .0005 +0/- .013	.26 .12
MR 26	MI 22 4S	MS 500072-18	1.3750 34.939	+0/- .0005 +0/- .013	1.624 41.3	+0/- .0006 +0/- .015	1.260 32.0	0.13 3	0.06 2	1.3755 34.951	1.3746 34.931	+0/- .0005 +0/- .013	.20 .09
MR 28 N	MI 24 N	MS 500072-21	1.5000 38.115	+0/- .0005 +0/- .013	1.749 44.4	+0/- .0006 +0/- .015	1.010 25.7	.13 3.2	.06 1.5	1.5005 38.128	1.4996 38.107	+0/- .0005 +0/- .013	.22 .09
MR 28 SS, S, RS, SRS, RSS	MI 22	MS 500072-19	1.3750 34.939	+0/- .0005 +0/- .013	1.749 44.4	+0/- .0006 +0/- .015	1.260 32.0	.13 3.2	.06 1.5	1.3755 34.951	1.3746 34.931	+0/- .0005 +0/- .013	.26 .12
	MI 23	MS 500072-20	1.4375 36.527	+0/- .0005 +0/- .013	1.749 44.4	+0/- .0006 +0/- .015	1.260 32.0	.13 3.2	.06 1.5	1.4380 36.540	1.4371 36.519	+0/- .0005 +0/- .013	.27 .12
	MI 24	MS 500072-22	1.5000 38.115	+0/- .0005 +0/- .013	1.749 44.4	+0/- .0006 +0/- .015	1.260 32.0	.13 3.2	.06 1.5	1.5005 38.128	1.4996 38.107	+0/- .0005 +0/- .013	.22 .09
MR 30 SS, S, RS, SRS, RSS	MI 25 4S		1.5625 39.703	+0/- .0005 +0/- .013	1.874 47.6	+0/- .0006 +0/- .015	1.260 32.0	.13 3.2	0.06 2	1.5630 39.716	1.5621 39.696	+0/- .0005 +0/- .013	.27 .12
MR 30			1.5625 39.703	+0/- .0005 +0/- .013	1.874 47.6	+0/- .0006 +0/- .015	1.260 32.0	.13 3.2	0.06 2	1.5630 39.716	1.5621 39.696	+0/- .0005 +0/- .013	.27 .12
MR 31	MI 26 2S		1.6250 41.291	+0/- .0005 +0/- .013	1.936 49.2	+0/- .0007 +0/- .018	1.260 32.0	.13 3.2	.06 1.5	1.6255 41.304	1.6246 41.284	+0/- .0005 +0/- .013	.30 .14
MR 32 N	MI 26 N		1.6250 41.291	+0/- .0005 +0/- .013	1.999 50.8	+0/- .0007 +0/- .018	1.010 25.7	.13 3.2	.06 1.5	1.6255 41.304	1.6246 41.284	+0/- .0005 +0/- .013	.30 .14
MR 32 SS, S, RS, SRS, RSS	MI 25		1.5625 39.703	+0/- .0005 +0/- .013	1.999 50.8	+0/- .0007 +0/- .018	1.260 32.0	.13 3.2	.06 1.5	1.5630 39.716	1.5621 39.696	+0/- .0005 +0/- .013	.30 .14
MR 32	MI 26	MS 500072-23	1.6250 41.291	+0/- .0005 +0/- .013	1.999 50.8	+0/- .0007 +0/- .018	1.260 32.0	.13 3.2	.06 1.5	1.6255 41.304	1.6246 41.284	+0/- .0005 +0/- .013	.38 .17
	MI 27		1.6875 42.879	+0/- .0005 +0/- .013	1.999 50.8	+0/- .0007 +0/- .018	1.260 32.0	.13 3.2	.06 1.5	1.6880 42.892	1.6871 42.872	+0/- .0005 +0/- .013	.32 .15
MR 36 N	MI 28 N	MS 500072-24	1.7500 44.468	+0/- .0005 +0/- .013	2.249 57.1	+0/- .0007 +0/- .018	1.510 38.4	.19 4.8	.06 1.5	1.7505 44.480	1.7496 44.460	+0/- .0005 +0/- .013	.63 .29
MR 36 SS, S, RS, SRS, RSS	MI 28	MS 500072-25	1.750 44.5	+0/- .0005 +0/- .013	2.249 57.1	+0/- .0007 +0/- .018	1.760 44.7	0.19 5	0.06 2	1.7505 44.480	1.7497 44.460	+0/- .0005 +0/- .013	.74 .34
	MI 30		1.8750 47.644	+0/- .0005 +0/- .013	2.249 57.1	+0/- .0007 +0/- .018	1.760 44.7	0.19 5	0.06 2	1.8755 47.656	1.8746 47.636	+0/- .0005 +0/- .013	.85 .39

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.

McGILL® CAGEROL® Bearings

Needle/Journal Bearings



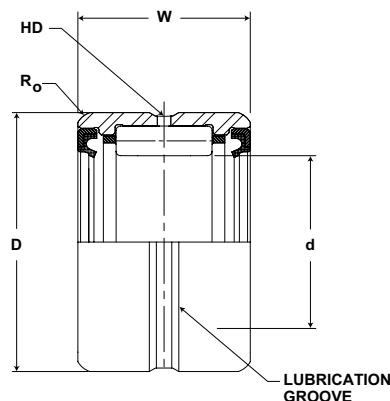
Basic Construction Type: Machined Race With Optional Separable Inner Ring

Rolling Elements: Cage Guided Precision Needles

Bearing Material: Bearing Quality Steel

Seal Type: Rubber Lip

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



MR 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
McGill Outer Ring & Roller Assembly	Military No.	Shaft Diameter		Outside Diameter		Width				Radial Lub. Hole Diameter	Max Hsg Radius to Clear				
		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)
MR 40 N	MS 51961-33	2.5000+0/-0.0005 63.5 +0/-0.13		3.2500 +0/-0.0008 82.6 +0/-0.020		1.500 38.10	3.2496 82.572	3.2507 82.600	+0/-0.0007 +0/-0.018	.13 3	0.08 2	4800	23,400 104,083	42,900 190,819	1.23 .56
MR 40 SS, S, RS, SRS, RSS							3.2496 83	3.2507 83	+0/-0.0007 +0/-0.018	.13 3	0.08 2	1530	23,400 104,083	42,900 190,819	1.44 .65
MR 40	MS 51961-34					1.750 44.45	3.2496 83	3.2507 83	+0/-0.0007 +0/-0.018	.13 3	0.08 2	4800	27,200 120,986	52,100 231,741	1.44 .65
MR 40	MS 51961-34						3.2496 83	3.2507 83	+0/-0.0007 +0/-0.018	.13 3	0.08 2	4800	27,200 120,986	52,100 231,741	1.44 .65
MR 44 N	MS 51961-35	2.7500+0/-0.0005 69.9 +0/-0.13		3.5000 +0/-0.0008 88.9 +0/-0.020		1.500 38.10	3.4995 89	3.5008 89	+0/-0.0010 +0/-0.025	.13 3	0.08 2	4370	24,500 108,976	46,700 207,722	1.36 .62
MR 44 SS, S, RS, SRS, RSS						1.750 44.45	3.4995 89	3.5008 89	+0/-0.0010 +0/-0.025	.13 3	0.08 2	1390	24,500 108,976	46,700 207,722	1.59 .72
MR 44	MS 51961-36						3.4995 89	3.5008 89	+0/-0.0010 +0/-0.025	.13 3	0.08 2	4370	28,400 126,323	56,700 252,202	1.59 .72
MR 48 N	MS 51961-37	3.0000+0/-0.0005 76.2 +0/-0.13		3.7500 +0/-0.0008 95.3 +0/-0.020		1.500 38.10	3.7495 95.275	3.7508 95.308	+0/-0.0010 +0/-0.025	.13 3	0.08 2	4000	26,100 116,093	52,300 232,630	1.53 .69
MR 48 SS, S, RS, SRS, RSS							3.7495 95	3.7508 95	+0/-0.0010 +0/-0.025	.13 3	0.08 2	1270	26,100 116,093	52,300 232,630	1.79 .77
MR 48	MS 51961-38 MS 51961-38					1.750 44.45	3.7495 95	3.7508 95	+0/-0.0010 +0/-0.025	.13 3	0.08 2	4000	30,300 134,774	63,400 282,003	1.79 .77
							3.7495 95	3.7508 95	+0/-0.0010 +0/-0.025	.13 3	0.08 2	4000	30,300 134,774	63,400 282,003	1.79 .77
† MR 52 SS, S, RS, SRS, RSS		3.2500+0/-0.0005 82.6 +0/-0.13		4.2500 +0/-0.0008 108.0 +0/-0.020		1.750 44.45	4.2495 107	4.2508 108	+0/-0.0010 +0/-0.025	.19 5	0.08 2	1175	25,100 111,645	54,300 241,526	2.64 1.19
MR 52	MS 51961-39						4.2495 108	4.2508 108	+0/-0.0010 +0/-0.025	.19 5	0.08 2	3700	29,900 132,995	64,400 286,451	2.64 1.19
MR 56 N	MS 51961-41	3.5000+0/-0.0005 88.9 +0/-0.13		4.5000 +0/-0.0008 114.3 +0/-0.020		1.750 44.45	4.4995 114	4.5008 114	+0/-0.0010 +0/-0.025	.19 5	0.08 2	3440	31,300 139,222	71,600 318,477	2.88 1.31
MR 56 SS, S, RS, SRS, RSS						2.000 50.80	4.4995 114	4.5008 114	+0/-0.0010 +0/-0.025	.19 5	0.08 2	1090	31,300 139,222	71,600 318,477	3.18 1.44
MR 56	MS 51961-42 MS 51961-42					2.000 50.80	4.4995 114	4.5008 114	+0/-0.0010 +0/-0.025	.19 5	0.08 2	3440	35,900 159,683	83,500 371,408	3.18 1.44
							4.4995 114	4.5008 114	+0/-0.0010 +0/-0.025	.19 5	0.08 2	3440	35,900 159,683	83,500 371,408	3.18 1.44
† MR 60 SS, S, RS, SRS, RSS		3.7500+0/-0.0005 95.3 +0/-0.13		4.7500 +0/-0.0008 120.7 +0/-0.020		2.000 50.80	4.7495 121	4.7508 121	+0/-0.0010 +0/-0.025	.19 5	0.10 3	1020	31,600 140,557	74,700 332,266	3.38 1.53
MR 60	MS 51961-43						4.7495 121	4.7508 121	+0/-0.0010 +0/-0.025	.19 5	0.10 3	3200	36,500 162,352	87,100 387,421	3.38 1.53
† MR 64 SS, S, RS, SRS, RSS		4.0000+0/-0.0007 101.6 +0/-0.18		5.0000 +0/-0.0010 127.1 +0/-0.025		2.000 50.80	4.9999 127	5.0011 127	+0/-0.0015 +0/-0.038	.19 5	0.10 3	950	32,000 142,336	80,400 357,619	3.56 1.61
MR 64	MS 51961-45						4.9999 127	5.0011 127	+0/-0.0015 +0/-0.038	.19 5	0.10 3	3000	38,000 169,024	93,800 417,222	3.56 1.61

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

For DS matching as DS suffix to part number

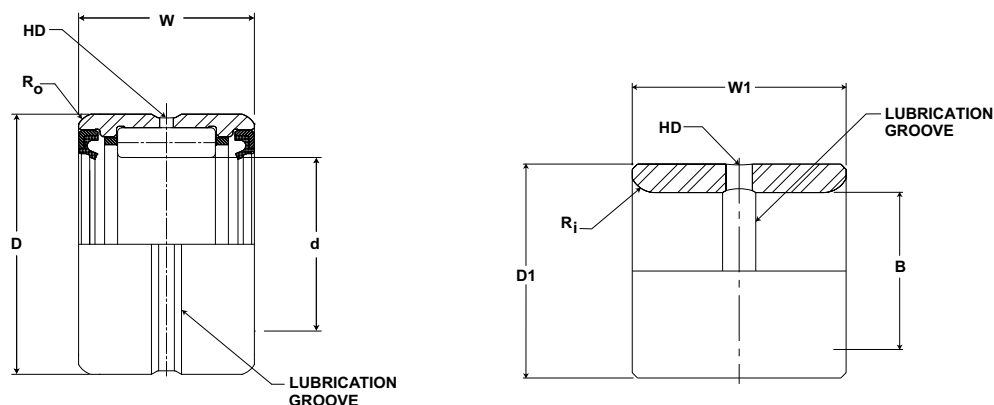
* For bearing properly filled with #1 grease reduce speed by 50%

† Not available from stock. Consult McGill customer service for availability.

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.



MR SERIES (continued)

Part No.		Military No.	B		D1		W1	HD	Ri	Recommended Shaft Diameter with inner ring			Inner Weight
McGill 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			
			Nom	Tol.	Nom	Tol.	Tol +0/- .005 (+0/- .13)	(Ref)	(Ref)	Rotating	Stationary	Tol.	lb kg
MR 40 N	MI 32 N	MS 500072-27	2.0000 50.820	+0/- .0005 +0/- .013	2.249 57.1	+0/- .0007 +0/- .018	1.510 38.4	.19 4.8	.08 2.0	2.0005 50.833	1.9996 50.812	+0/- .0005 +0/- .013	.74 .34
MR 40 SS, S, RS, SRS, RSS	MI 31	MS 500072-26	1.9375 49.232	+0/- .0005 +0/- .013	2.249 57.1	+0/- .0007 +0/- .018	1.510 38.4	.19 4.8	.08 2.0	1.9380 49.245	1.9371 49.224	+0/- .0005 +0/- .013	.97 .44
	MI 32		2.0000 50.820	+0/- .0005 +0/- .013	2.249 57.1	+0/- .0007 +0/- .018	1.760 44.7	.19 4.8	.08 2.0	2.0005 50.833	1.9996 50.812	+0/- .0005 +0/- .013	.87 .39
	MI 34		2.1250 53.996	+0/- .0006 +0/- .015	2.249 57.1	+0/- .0007 +0/- .018	1.760 44.7	.19 4.8	.08 2.0	2.1258 54.017	2.1247 53.989	+0/- .0008 +0/- .020	1.00 .45
MR 44 N	MI 36 N	MS 500072-29	2.2500 57.173	+0/- .0006 +0/- .015	2.749 69.8	+0/- .0007 +0/- .018	1.510 38.4	.19 4.8	.08 2.0	2.2508 57.193	2.2497 57.165	+0/- .0008 +0/- .020	.83 .37
MR 44 SS, S, RS, SRS, RSS	MI 35	MS 500072-28	2.1875 55.584	+0/- .0006 +0/- .015	2.749 69.8	+0/- .0007 +0/- .018	1.510 38.4	0.19 5	0.08 2	2.1883 55.605	2.1872 55.577	+0/- .0008 +0/- .020	1.06 .48
	MI 36		2.2500 57.173	+0/- .0006 +0/- .015	2.749 69.8	+0/- .0007 +0/- .018	1.760 44.72	0.19 5	0.08 2	2.2508 57.193	2.2497 57.165	+0/- .0008 +0/- .020	.97 .44
MR 48 N	MI 40 N	MS 500072-31	2.5000 63.525	+0/- .0006 +0/- .015	2.9989 76.202	+0/- .0007 +0/- .018	1.510 38.37	.19 4.8	.08 2.0	2.5008 63.545	2.4997 63.517	+0/- .0008 +0/- .020	.92 .43
MR 48 SS, S, RS, SRS, RSS	MI 38	MS 500072-30	2.3750 60.349	+0/- .0006 +0/- .015	2.9989 76.202	+0/- .0007 +0/- .018	1.760 44.72	.19 4.8	.08 2.0	2.3758 60.369	2.3747 60.341	+0/- .0008 +0/- .020	1.28 .58
	MI 39		2.4375 61.937	+0/- .0006 +0/- .015	2.9989 76.202	+0/- .0007 +0/- .018	1.510 38.37	.19 4.8	.08 2.0	2.4383 61.957	2.4372 61.929	+0/- .0008 +0/- .020	1.05 .47
	MI 40		2.5000 63.525	+0/- .0006 +0/- .015	2.9989 76.202	+0/- .0007 +0/- .018	1.760 44.72	.19 4.8	.08 2.0	2.5008 63.545	2.4997 63.517	+0/- .0008 +0/- .020	1.07 .48
† MR 52 SS, S, RS, SRS, RSS	MI 42		2.6250 66.701	+0/- .0006 +0/- .015	3.2487 82.549	+0/- .0009 +0/- .023	1.760 44.72	.19 4.8	0.08 2	2.6258 66.722	2.6247 66.694	+0/- .0008 +0/- .020	1.12 .51
MR 52	MI 44	MS 500072-32	2.7500 69.878	+0/- .0006 +0/- .015	3.2487 82.549	+0/- .0009 +0/- .023	1.760 44.72	0.19 5	0.08 2	2.7508 69.898	2.7497 69.870	+0/- .0008 +0/- .020	1.17 .53
MR 56 N	MI 48 N		3.0000 76.230	+0/- .0006 +0/- .015	3.4987 88.902	+0/- .0009 +0/- .023	1.760 44.72	.25 6.4	.08 2.0	3.0008 76.250	2.9997 76.222	+0/- .0008 +0/- .020	1.32 .59
MR 56 SS, S, RS, SRS, RSS	MI 46		2.8750 73.054	+0/- .0006 +0/- .015	3.4987 88.902	+0/- .0009 +0/- .023	2.010 51.07	0.25 6	0.08 2	2.8758 73.074	2.8747 73.046	+0/- .0008 +0/- .020	1.30 .59
MR 56	MI 47	MS 500072-34	2.9375 74.642	+0/- .0006 +0/- .015	3.4987 88.902	+0/- .0009 +0/- .023	2.010 51.07	0.25 6	0.08 2	2.9383 74.662	2.9372 74.634	+0/- .0008 +0/- .020	1.58 .72
	MI 48		3.0000 76.230	+0/- .0006 +0/- .015	3.4987 88.902	+0/- .0009 +0/- .023	2.010 51.07	0.25 6	0.08 2	3.0008 76.250	2.9997 76.222	+0/- .0008 +0/- .020	1.43 .65
† MR 60 SS, S, RS, SRS, RSS	MI 50	MS 500072-35	3.1250 79.406	+0/- .0006 +0/- .015	3.7487 95.254	+0/- .0009 +0/- .023	2.010 51.07	.25 6.4	.10 2.5	3.1260 79.432	3.1246 79.396	+0/- .0010 +0/- .025	1.88 .85
	MI 52	MS 500072-36	3.2500 82.583	+0/- .0006 +0/- .015	3.7487 95.254	+0/- .0009 +0/- .023	2.010 51.07	0.25 6.4	0.10 2.5	3.2510 82.608	3.2496 82.572	+0/- .0010 +0/- .025	1.52 .69
† MR 64 SS, S, RS, SRS, RSS	MI 54	MS 500072-38	3.3750 85.759	+0/- .0008 +0/- .020	3.9985 101.602	+0/- .0009 +0/- .023	2.010 51.07	.25 6.4	.10 2.5	3.3760 85.784	3.3746 85.749	+0/- .0010 +0/- .025	2.04 .93
	MI 56		3.5000 88.935	+0/- .0008 +0/- .020	3.9985 101.602	+0/- .0009 +0/- .023	2.010 51.07	0.25 6.4	0.10 2.5	3.5010 88.960	3.4996 88.925	+0/- .0010 +0/- .025	1.63 .74

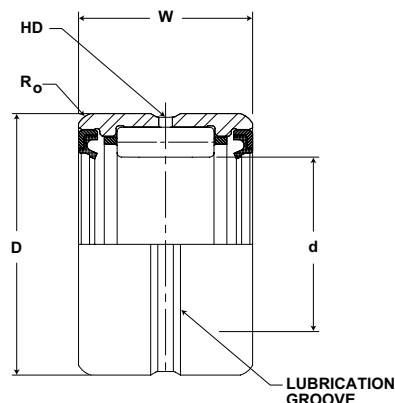
† Not available from stock. Consult McGill customer service for availability.

McGILL® CAGEROL® Bearings

Needle/Journal Bearings



- Basic Construction Type:** Machined Race With Optional Separable Inner Ring
- Rolling Elements:** Cage Guided Precision Needles
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Rubber Lip
- Lubrication:** Sealed Bearings: Lithium Soap Grease NLGI #1 Unsealed Bearings: Rust Preventative



MR 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
McGill Outer Ring & Roller Assembly	Military No.	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)				
† MR 68 SS, S, RS, SRS, RSS		4.2500 +0/- .0007 108.0 +0/- .018		5.2500 +0/- .0010 133.4 +0/- .025		2.000 50.80	5.2499 133	5.2511 133	+0/- .0015 +0/- .038	.19 5	0.10 3	900	34,000 151,232	86,200 383,418	3.74 1.69
MR 68	MS 51961-46						5.2499 133	5.2511 133	+0/- .0015 +0/- .038	.19 5	0.10 3	2820	39,500 175,696	101,000 449,248	3.74 1.69
MR 72	MS 51961-48	4.5000 +0/- .0007 114.3 +0/- .018		6.0000 +0/- .0010 152.5 +0/- .025		2.250 57.15	5.9999 152	6.0011 152	+0/- .0015 +0/- .038	.19 5	0.10 3	2660	60,300 268,214	130,000 578,240	7.13 3.23
MR 80		5.0000 +0/- .0007 127.1 +0/- .018		6.5000 +0/- .0010 165.2 +0/- .025		2.250 57.15	6.4999 165	6.5011 165	+0/- .0015 +0/- .038	.19 5	0.10 3	800	64,600 287,341	148,000 658,304	7.78 3.53
MR 88 N	MS 51961-52	5.5000 +0/- .0007 139.8 +0/- .018		7.0000 +0/- .0010 177.9 +0/- .025		2.500 63.50	6.9999 178	7.0011 178	+0/- .0015 +0/- .038	.25 6	0.10 3	2180	70,200 312,250	169,800 755,270	10.40 4.72
MR 88	MS 51961-53					3.000 76.20	6.9999 178	7.0011 178	+0/- .0015 +0/- .038	.25 6	0.10 3	2180	85,700 381,194	222,000 987,456	11.82 5.36
MR 96 N	MS 51961-55	6.0000 +0/- .0010 152.5 +0/- .025		7.5000 +0/- .0012 190.6 +0/- .030		2.500 63.50	7.4998 190	7.5011 190	+0/- .0015 +0/- .038	.25 6	0.12 3	2000	71,000 315,808	177,000 787,296	11.08 5.02
MR 96	MS 51961-56					3.000 76.20	7.4998 190	7.5011 190	+0/- .0015 +0/- .038	.25 6	0.12 3	2000	86,600 385,197	228,000 1,014,144	12.69 5.76
MR 104 N	MS 51961-57	6.5000 +0/- .0010 165.2 +0/- .025		8.0000 +0/- .0012 203.3 +0/- .030		2.500 63.50	7.9998 203	8.0011 203	+0/- .0015 +0/- .038	.25 6	0.12 3	1850	71,700 318,922	183,000 813,984	11.85 5.37
† MR 104	MS 51961-58					3.000 76.20	7.9998 203	8.0011 203	+0/- .0015 +0/- .038	.25 6	0.12 3	1850	87,500 389,200	237,000 1,054,176	13.55 6.15
MR 116	MS 51961-59	7.2500 +0/- .0010 184.2 +0/- .025		9.1250 +0/- .0012 231.9 +0/- .030		3.000 76.20	9.1248 231	9.1261 231	+0/- .0015 +0/- .038	.25 6	0.12 3	1680	95,200 423,450	234,000 1,040,832	19.32 8.76
† MR 124		7.7500 +0/- .0010 196.9 +0/- .025		9.6250 +0/- .0012 244.6 +0/- .030		3.000 76.20	9.6250 244	9.6265 244	+0/- .0020 +0/- .051	.25 6	0.12 3	1530	99,100 440,797	252,000 1,120,896	19.80 8.97
† MR 132		8.2500 +0/- .0010 209.6 +0/- .025		10.1250 +0/- .0012 257.3 +0/- .030		3.000 76.20	10.1250 257	10.1265 257	+0/- .0020 +0/- .051	.25 6	0.12 3	1460	103,000 458,144	270,000 1,200,960	21.63 9.81
† MR 140		8.7500 +0/- .0010 222.3 +0/- .025		10.6250 +0/- .0014 270.0 +0/- .036		3.000 76.20	10.6250 269	10.6265 270	+0/- .0020 +0/- .051	.25 6	0.16 4	1370	104,000 462,592	280,000 1,245,440	22.73 10.31
MR 148		9.2500 +0/- .0010 235.0 +0/- .025		11.1250 +0/- .0014 282.7 +0/- .036		3.000 76.20	11.1250 282	11.1265 282	+0/- .0020 +0/- .051	.25 6	0.16 4	1300	108,000 480,384	292,000 1,298,816	24.90 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

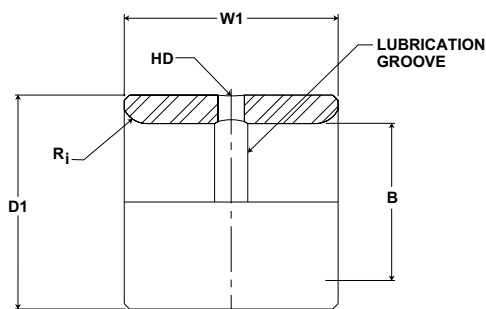
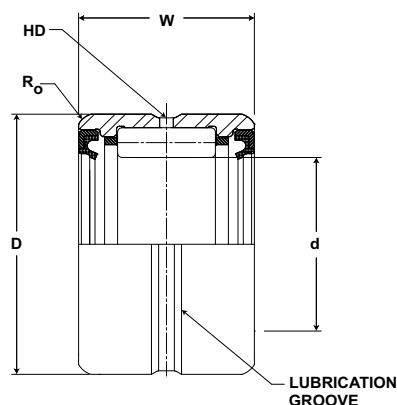
* For bearing properly filled with #1 grease reduce speed by 50%

† Not available from stock. Consult McGill customer service for availability.

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.



MR SERIES (continued)

Part No.		Military No.	B		D1		W1	HD	Ri	Recommended Shaft Diameter with inner ring			Inner Weight
McGill 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/-.005 (+0/.13)	(Ref)	(Ref)	Rotating	Stationary	Tol.	
† MR 68 SS, S, RS, SRS, RSS	MI 58		3.6250 92.111	+0/-.0008 +0/-0.020	4.2485 107.954	+0/-.0009 +0/-0.023	2.010 51.07	.25 6.4	0.10 3	3.6260 92.137	3.6246 92.101	+0/-.0010 +0/-0.025	1.70 .77
MR 68	MI 60	MS 500072-40	3.7500 95.288	+0/-.0008 +0/-0.020	4.2485 107.954	+0/-.0009 +0/-0.023	2.010 51.07	0.25 6	0.10 3	3.7510 95.313	3.7496 95.277	+0/-.0010 +0/-0.025	1.75 .79
MR 72	MI 62		3.8750 98.464	+0/-.0008 +0/-0.020	4.4985 114.307	+0/-.0009 +0/-0.023	2.260 57.43	.25 6.4	.10 2.5	3.8760 98.489	3.8746 98.454	+0/-.0010 +0/-0.025	3.25 1.47
MR 80	MI 64		4.0000 101.640	+0/-.0008 +0/-0.020	4.9985 127.012	+0/-.0010 +0/-0.025	2.260 57.43	.25 6.4	0.10 3	4.0010 101.665	3.9996 101.630	+0/-.0010 +0/-0.025	4.38 1.99
	MI 68		4.2500 107.993	+0/-.0008 +0/-0.020	4.9985 127.012	+0/-.0010 +0/-0.025	2.260 57.43	0.25 6	0.10 3	4.2510 108.018	4.2496 107.982	+0/-.0010 +0/-0.025	5.24 2.37
MR 88 N	MI 72 N	MS 500072-43	4.5000 114.345	+0/-.0008 +0/-0.020	5.4985 139.717	+0/-.0010 +0/-0.025	2.515 63.91	.25 6.4	0.10 3	4.5010 114.370	4.4996 114.332	+0/-.0010 +0/-0.025	5.43 2.47
MR 88	MI 72	MS 500072-44	4.5000 114.345	+0/-.0008 +0/-0.020	5.4985 139.717	+0/-.0010 +0/-0.025	3.015 76.61	0.25 6	0.10 3	4.5010 114.370	4.4995 114.332	+0/-.0010 +0/-0.025	5.97 2.71
MR 96 N	MI 80 N	MS 500072-46	5.0000 127.050	+0/-.0010 +0/-0.025	5.9983 152.417	+0/-.0010 +0/-0.025	2.515 63.91	.31 7.9	0.12 3	5.0010 127.075	4.9995 127.037	+0/-.0010 +0/-0.025	5.97 2.71
MR 96	MI 80	MS 500072-47	5.0000 127.050	+0/-.0010 +0/-0.025	5.9983 152.417	+0/-.0010 +0/-0.025	3.015 76.61	0.31 8	0.12 3	5.0010 127.075	4.9995 127.037	+0/-.0010 +0/-0.025	7.12 3.23
MR 104 N	MI 88 N	MS 500072-48	5.5000 139.755	+0/-.0010 +0/-0.025	6.4983 165.122	+0/-.0010 +0/-0.025	2.515 63.91	.31 7.9	0.12 3	5.5010 139.780	5.4995 139.742	+0/-.0010 +0/-0.025	6.30 2.88
† MR 104	MI 88	MS 500072-49	5.5000 139.755	+0/-.0010 +0/-0.025	6.4983 165.122	+0/-.0010 +0/-0.025	3.015 76.61	0.31 8	0.12 3	5.5010 139.780	5.4995 139.742	+0/-.0010 +0/-0.025	7.56 3.43
MR 116	MI 96	MS 500072-50	6.0000 152.460	+0/-.0010 +0/-0.025	7.2481 184.174	+0/-.0012 +0/-0.030	3.015 76.61	.31 7.9	.12 3.0	6.0012 152.490	5.9995 152.447	+0/-.0012 +0/-0.030	11.06 5.03
† MR 124	MI 104		6.5000 165.165	+0/-.0010 +0/-0.025	7.7481 196.879	+0/-.0012 +0/-0.030	3.015 76.61	.31 7.9	.12 3.0	6.5012 165.195	6.4995 165.152	+0/-.0012 +0/-0.030	11.99 5.39
† MR 132	MI 112		7.0000 177.870	+0/-.0010 +0/-0.025	8.2481 209.584	+0/-.0012 +0/-0.030	3.015 76.61	.31 7.9	.12 3.0	7.0012 177.900	6.9995 177.857	+0/-.0012 +0/-0.030	12.70 5.77
† MR 140	MI 120		7.5000 190.575	+0/-.0012 +0/-0.030	8.7480 222.287	+0/-.0012 +0/-0.030	3.015 76.61	.31 7.9	.16 4.1	7.5012 190.605	7.4995 190.562	+0/-.0012 +0/-0.030	13.60 6.17
† MR 148	MI 128		8.0000 203.280	+0/-.0012 +0/-0.030	9.2480 234.992	+0/-.0012 +0/-0.030	3.015 76.61	.31 7.9	.16 4.1	8.0012 203.310	7.9995 203.267	+0/-.0012 +0/-0.030	14.40 6.55

† Not available from stock. Consult McGill customer service for availability.