





Cam Followers

Unmounted bearing assembly consisting of hardened precision ground inner and outer raceways with either full complement or separated (cage) needle, ball, tapered or cylindrical rolling elements constructed with an integral stud or precision ground bore. Cam follower bearings provide an antifriction solution for translating rotation to linear motion or supporting either pure radial or combination thrust loads depending on the rolling elements types.

Bearing Configurations

Cylindrical, Crowned, V-Groove Or Flanged

Mounting Styles

Eccentric Or Concentric Stud Or Yoke

Outer Roller Diameter Range

1/2" To 10" And 13 mm To 90 mm

Materials

Bearing Quality Steel, Stainless

Cam Follower Selection Guide

				SIZE RANGE	
		Product Series	Material / Finish	Inch	Metric
CAMROL		CF	Black Oxide Finish Bearing Steel	1/2 - 10	
		CYR		3/4 - 10	
		CFH		1/2 - 7	
		BCF		1/2 - 4	
		BCYR		3/4 - 4	
		MCF			16 - 90
		MCFR			13 - 90
		MCYR			5 - 50
		MCYRR			5 - 50
Heavy-Duty		CFD	Black Oxide Finish Bearing Steel	1 1/4 - 6	
		CYRD		1 1/4 - 6	
		MCFD			35 - 80
		MCYRD			15 - 50

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

McGill CAMROL Cam Followers are available in 400 series stainless steel components for improved resistance to both external and internal corrosion.

CRES CAMROL bearings are dimensionally interchangeable with standard CAMROL[®] bearings and easily identifiable with "CR" designation.



Inch Cam Follower Bearings **McGILL**

Cam Follower Bearings



DESIGN CHARACTERISTICS					FEATURES							Page No.
Radial Load	Thrust Load	Precision	High Speed	Relative Base Cost *	Crowned OD	Eccentric Stud	Lubrication Holes	Seal	Hex Hole	Slotted Face	Jam Nuts	
				\$	O	O	S	O	O	S	-	B-15
				\$	O	-	S	O	-	-	-	B-39
				\$\$	O	-	S	O	O	S	-	B-15
				\$	O	O	S	O	O	S	-	B-45
				\$	O	-	S	O	-	-	-	B-57
				\$	S	O	S	O	O	S	S	B-69
				\$	S	O	S	O	O	S	S	B-69
				\$	S	-	S	O	O	-	S	B-91
				\$	S	-	S	O	-	-	S	B-91
				\$\$	O	O	O	S	S	-	-	B-103
				\$\$	O	-	O	S	-	-	-	B-107
				\$\$	S	O	S	-	O	S	S	B-111
				\$\$	S	-	S	-	-	-	-	B-115

Circular Track / Misalignment

Load Sharing / Adjustment To Track

Relubrication To Help Promote Bearing Operating Life

Contamination Barrier

Blind Hole Mounting

Allows The Use Of A Lube Fitting When Lubrication From The Flange Side Of Bearing

Accessories Included

O = Optional

S = Standard

○ = Not Recommended



Poor ← → Best

Cam Follower Selection Guide

			SIZE RANGE		
		Product Series	Material / Finish	Inch	Metric
Special Duty		SDCF	Black Oxide Finish Bearing Steel	1 - 4	
		SDMCF			25 - 100
TRAKROL		PCF	Black Oxide Finish Bearing Steel	1 1/2 - 9	
		PCYR		3 - 6	
		FCF		1 1/2 - 9	
		FCYR		3 - 6	
		VCF		2 1/2 - 8 1/2	
		VCYR		3 1/2 - 7 1/2	

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Inch Cam Follower Bearings **McGILL**

Cam Follower Bearings



DESIGN CHARACTERISTICS					FEATURES							Page No.
Radial Load	Thrust Load	Precision	High Speed	Relative Base Cost *	Crowned OD	Eccentric Stud	Lubrication Hole	Seal	Hex Hole	Slotted Face	Jam Nuts	
				\$\$\$	O	O	-	S	S	-	S	B-123
				\$\$\$	O	O	-	S	S	-	S	B-125
				\$\$	O	O	-	S	-	-	O	B-131
				\$\$	O	-	-	S	S	-	-	B-133
				\$\$\$	-	O	-	S	S	-	O	B-135
				\$\$	-	-	-	S	-	-	-	B-137
				\$\$	-	O	-	S	S	-	O	B-139
				\$\$	-	-	-	S	-	-	-	B-141

Circular Track / Misalignment

Load Sharing / Adjustment To Track

Relubrication And Promote Bearing Life

Contamination Barrier

Blind Hole Mounting

Allows The Use Of A Lube Fitting When Lubrication From The Flange Side Of Bearing

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O = Optional

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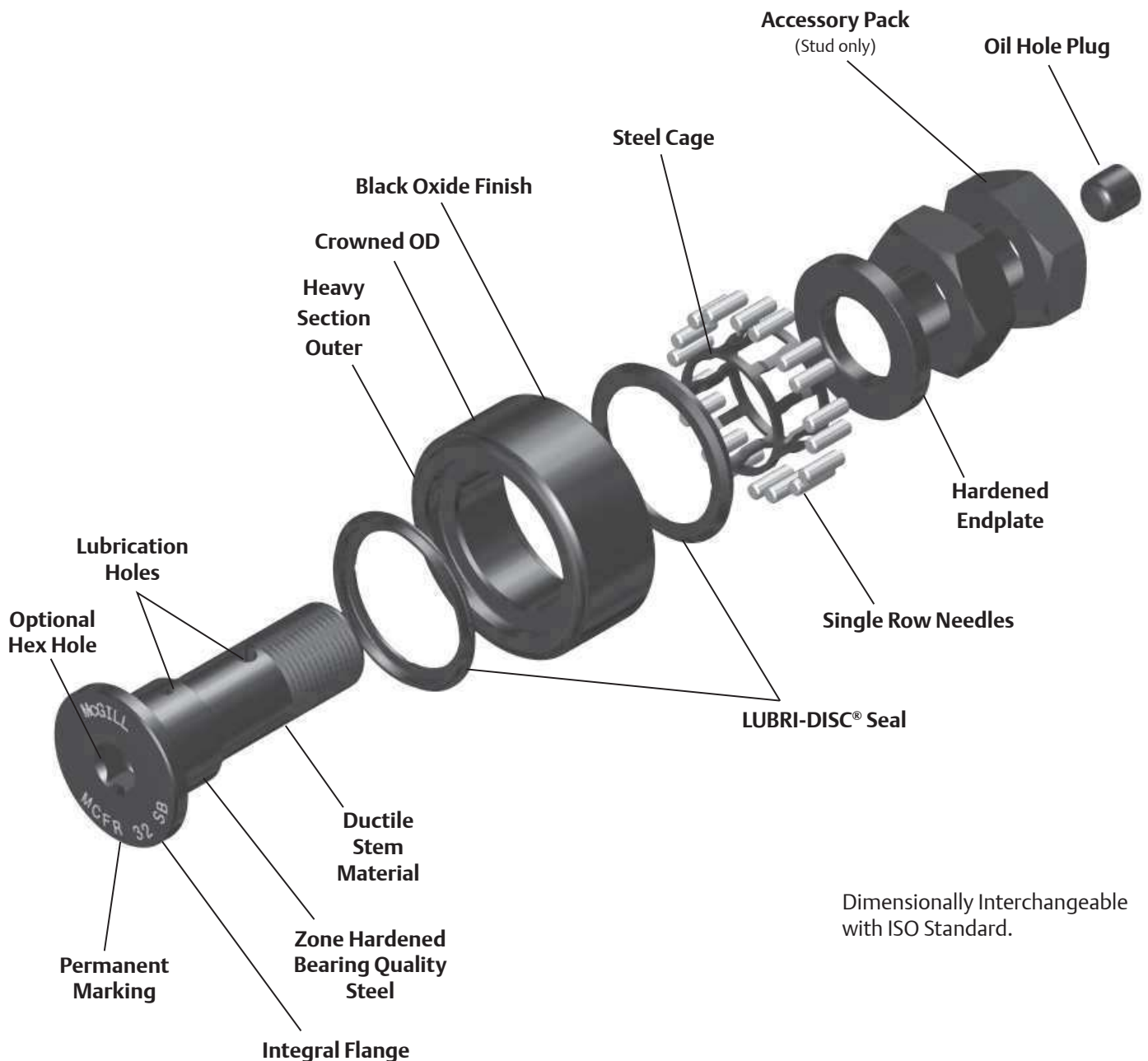


Poor ← → **Best**

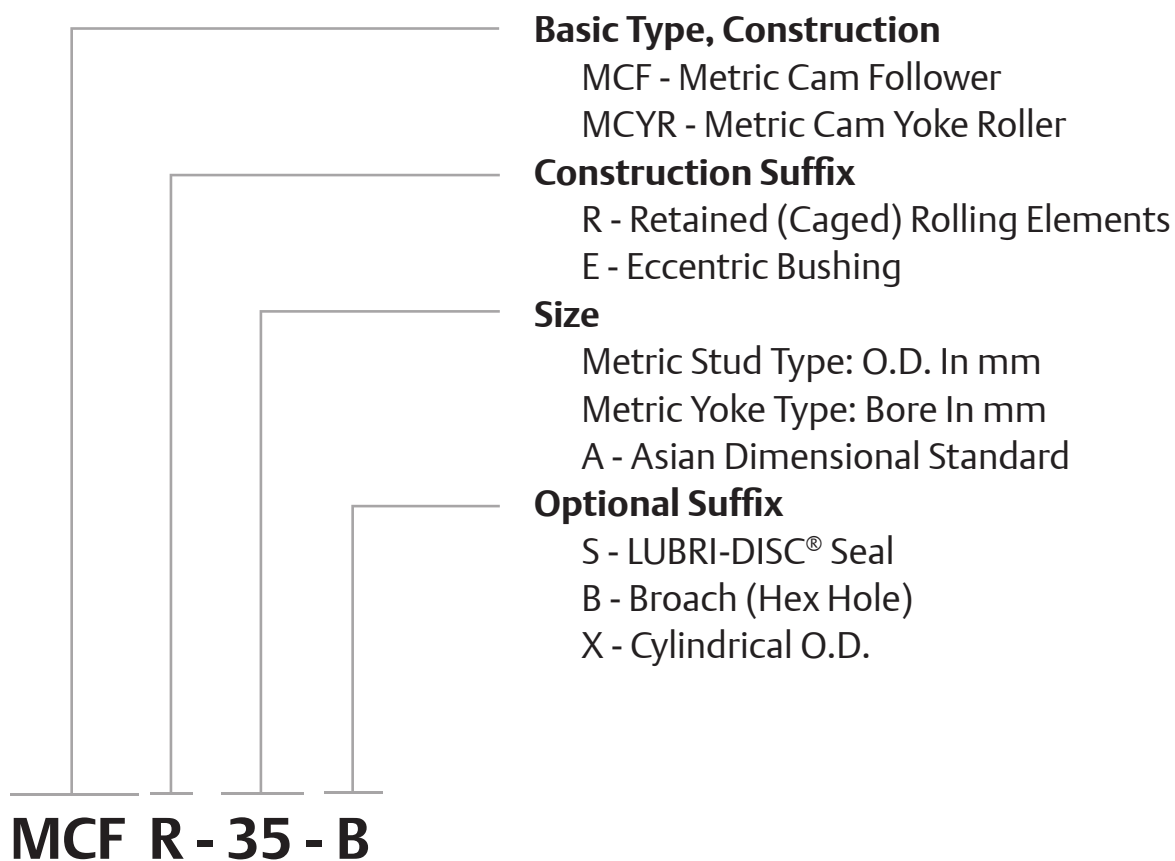
* For estimating purpose only, individual costs may vary and are subject to change without notification

McGill Metric Cam Followers

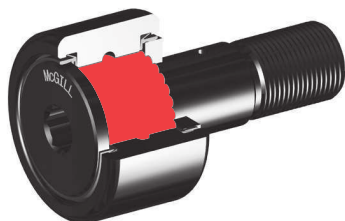
McGill Metric CAMROL bearings are available with either a full complement, or caged (retainer type) set of needles featuring black oxide treated bearing steel while conforming to ISO standard envelope dimensions for use mechanical automation or linear motion applications. Our basic features each contribute to improved performance, while the LUBRI-DISC® seal option helps prevent metal to metal contact within the bearing while providing a barrier for contaminant entry and allow venting of excess or old grease during lubrication. In addition to the seal option these bearings are available with several dimensional choices and combinations to provide a solution specific for the application. Within the following section you can learn more about these features and how they can be applied to your application.



Cam Follower Metric Nomenclature

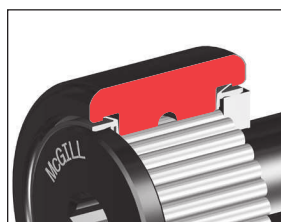


Features and Benefits



Single Row Full Complement Needle Rollers

The needle roller diameter, length, and number have been optimized to provide a high dynamic and static load rating, contained within industry standard bearing envelope dimensions.



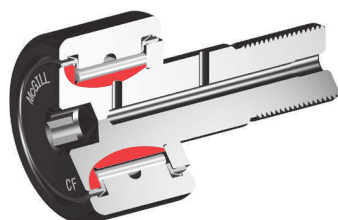
Heavy Section Outer

The heavy section outer helps support radial loading and provide proper rolling element support.



Cylindrical Outside Diameter (OD)

The cylindrical OD can improve performance in certain applications such as improved track capacity by maximizing the contact area with the track.

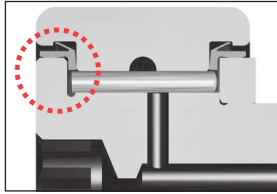


Zone Hardened Raceways

Heat treatment used to precisely harden working surfaces of the raceway and flange. The hardened surfaces provide support for the rolling element contact stresses, while keeping the core of the inner ductile to help absorb shock loads.

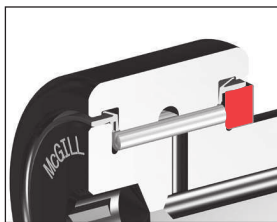


Features and Benefits continued



Integral Flange - Stud Type

The integral flange helps maintain bearing integrity throughout the bearing life. Zone hardened to provide wear resistance from incidental contact with the outer or rollers, and provides a sealing surface with LUBRI-DISC® seal option.



Hardened Endplate

The endplate provides a locating shoulder when mounting the stud or yoke style cam follower. Also, similar to the flange, the endplate must resist wear from incidental contact with the outer or rollers. The hardened and ground endplate provides a sealing surface with LUBRI-DISC® seal option.

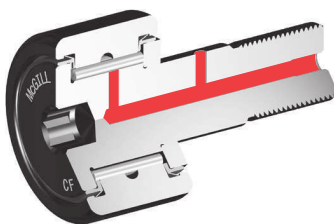


Roll Formed Threads - Stud Type

Roll forming is the process used to produce threads. By moving the material into shape instead of cutting the threads, the threads are produced to meet class 6G tolerances and are work hardened resulting in improved holding power. Available in both Asian (with "A" suffix) or European Metric as standard.

Factory Grease Fill

The cam follower and cam yoke roller bearings are factory lubricated with a medium temperature grease. Contact Application Engineering when application conditions require special lubricants.



Lubrication Holes

Most sizes of McGill CAMROL bearings include lubrication hole(s) to accept a standard drive fitting or an included plug. The oil hole plug is recommended for closing unused lubrication hole to help protect against bearing contamination or lubrication loss.

McGill CAMROL Yoke roller bearings include a lubrication hole to provide a passage for lubrication to the rolling elements from the yoke roller bore. The customer supplied shaft must provide an axial lubrication path to supply bearing.

Features and Benefits continued



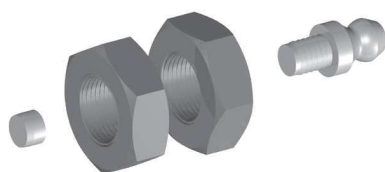
Black Oxide Finish

Bearings have a black oxide finish on all external surfaces.



Permanent Marking

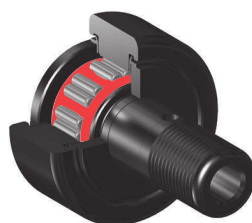
Part number permanently marked on bearing face, helps bearing identification after years of service.



Installation Accessory Pack

All McGill Metric Cam followers include (2) jam nuts to ensure proper thread type (Asian / European), Fitting and plug to help provide proper lubrication path to the rolling elements and prevent contamination from entering the bearing through a unused hole.

Options

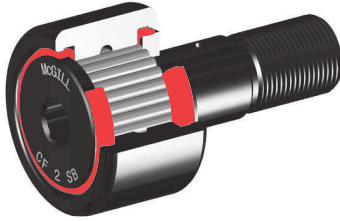


Retainer Type

The retainer (cage) option provides heat-treated steel cage for improved durability and wear resistance. The needle separation produces larger lubrication reservoir and helps achieve higher bearing speeds.. The cages are designed with two rollers per pockets (except 13, 16 and 19mm OD's) to help improve static and dynamic load ratings.

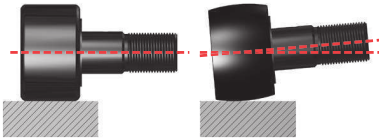


Options



LUBRI-DISC® Seal

The CAMROL standard for seals, the LUBRI-DISC seal not only helps keep contaminants out and lubrication in the bearing, but with an integral back plate to separate the metal to metal contact between the outer ring and endplate(s) or flange. The back plate feature reduce friction resulting in lower operating temperatures which can extend grease life and allowing for higher operating speeds. Our seal also includes vents to help prevent seal blowout during relubrication. The LUBRI-DISC seal option has a good balance of sealing and low drag operation essential to a precision cam follower suited for most industrial applications.



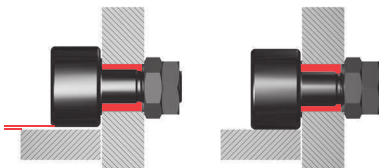
Crowned Outside Diameter (OD)

A crown on the OD of a cam follower bearing can help increase bearing life versus a standard cylindrical cam follower. The crown achieves this performance by helping to distribute the stress on the outer ring and rolling elements resulting from misalignment due to mounting inaccuracy or stud deflection. The crown may also help reduce outer skidding in turntable or rotary applications. Not all applications may see the benefit of a crowned OD, consult Application Engineering for guidance for your application.



Hex Hole (Broached)

The hex hole can aid in the installation and removal of stud type cam followers by a more positive hold on the cam follower stud versus a standard screw driver slot. The hex feature is identified with a "B" since it is produced using a broach process. Bearing relubrication from flange end must be considered for sizes under 3".



Eccentric Stud

Eccentric stud option provides a means of adjusting the radial position of the bearing, which can improve the load sharing of inline bearing combinations. Cam follower load sharing helps reduce operation costs by reducing premature failures due to overloaded bearings, the need of precise mounting hole location tolerances and providing ability to realign bearing due to track wear. Eccentric bushing is press fit on stud and unhardened to permit dowel or setscrew for permanent locking.

Additional Options



BHT

Broached (Hex) hole at threaded end of cam follower stud.



THT

Threaded axial lubrication hole at threaded end of cam follower stud.



THF

Threaded axial lubrication hole at flanged end of cam follower stud. Available with all screw driver slot cam followers or broached cam followers over 3".



THB

Threaded axial oil hole on both ends of cam follower stud. Available with all screw driver slot cam followers or broached cam followers over 3".



ALG

Annular lubrication groove at cam follower stem radial lubrication hole.

Custom Capabilities

- *Customer specified factory grease fill*
- *Grease fitting installed*
- *Stud or thread length modifications*
- *Roller diameter variations or tolerances*
- *Cam followers grouped or matched diameter tolerance / run out sets*
- *Custom engineered to order designs*

McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

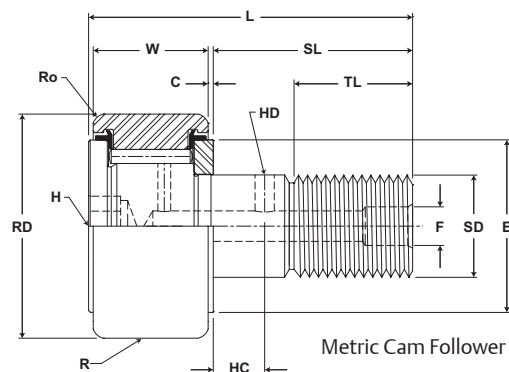
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical Suffix MCF-xx-X	Eccentric Base Modifier MCFE-xx				
		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch			
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/- .15 + .002/- .006	(Ref)	N/lb	N/lb
MCFR 13	MCFR 13 S	13.000 .5118	+0/- .050 +0/- .002	9.000 0/-0.12 .3543	+0/-0.005	5.000 +0/- .012 .1969	13 .5	.60 .024	7.5 .30	23 .9	500 19.7	N/A	N/A	N/A		2,060 463	1,650 371
MCFR 13 B	MCFR 13 SB										Cylindrical						
MCFR 13 X	MCFR 13 SX		+0/- .008 +0/- .0003														
MCFR 13 BX	MCFR 13 SBX																
MCF 16	MCF 16 S	16.000 .6299	+0/- .050 +0/- .002	11.000 0/-0.12 .4331	+0/-0.005	6.000 +0/- .012 .2362	16 .6	.60 .024	9.0 .35	28 1.1	500 19.7	N/A	N/A	N/A		5,790 1,302	2,350 528
MCF 16 B	MCF 16 SB										Cylindrical						
MCF 16 X	MCF 16 SX		+0/- .008 +0/- .0003														
MCF 16 BX	MCF 16 SBX																
MCFE 16	MCFE 16 S	16.000 .6299	+0/- .050 +0/- .002	11.000 0/-0.12 .4331	+0/-0.005	6.000 +0/- .012 .2362	16 .6	.60 .024	9.0 .35	28 1.1	500 19.7	0.5 .02	7 0.27	9 .35			
MCFE 16 B	MCFE 16 SB										Cylindrical						
MCFE 16 X	MCFE 16 SX		+0/- .008 +0/- .0003														
MCFE 16 BX	MCFE 16 SBX																
MCFR 16	MCFR 16 S	16.000 .6299	+0/- .050 +0/- .002	11.000 0/-0.12 .4331	+0/-0.005	6.000 +0/- .012 .2362	16 .6	.60 .024	9.0 .35	28 1.1	500 19.7	N/A	N/A	N/A		3,430 771	2,350 528
MCFR 16 B	MCFR 16 SB										Cylindrical						
MCFR 16 X	MCFR 16 SX		+0/- .008 +0/- .0003														
MCFR 16 BX	MCFR 16 SBX																
MCFRE 16	MCFRE 16 S	16.000 .6299	+0/- .050 +0/- .002	11.000 0/-0.12 .4331	+0/-0.005	6.000 +0/- .012 .2362	16 .6	.60 .024	9.0 .35	28 1.1	500 19.7	0.5 .02	7 0.27	9 .35			
MCFRE 16 B	MCFRE 16 SB										Cylindrical						
MCFRE 16 X	MCFRE 16 SX		+0/- .008 +0/- .0003														
MCFRE 16 BX	MCFRE 16 SBX																
MCF 19	MCF 19 S	19.000 .7480	+0/- .050 +0/- .002	11.000 +0/- .12 .4331	+0/-0.005	8.000 +0/- .015 .3150	20 .8	.60 .024	11.0 .43	32 1.3	500 19.7	N/A	N/A	N/A		6,670 1,500	5,100 1,147
MCF 19 B	MCF 19 SB										Cylindrical						
MCF 19 X	MCF 19 SX		+0/- .009 +0/- .0004														
MCF 19 BX	MCF 19 SBX																
MCFE 19	MCFE 19 S	19.000 .7480	+0/- .050 +0/- .002	11.000 +0/- .12 .4331	+0/-0.005	8.000 +0/- .015 .3150	20 .8	.60 .024	11.0 .43	32 1.3	500 19.7	0.5 .02	9 0.35	11 .43			
MCFE 19 B	MCFE 19 SB										Cylindrical						
MCFE 19 X	MCFE 19 SX		+0/- .009 +0/- .0004														
MCFE 19 BX	MCFE 19 SBX																
MCFR 19	MCFR 19 S	19.000 .7480	+0/- .050 +0/- .002	11.000 +0/- .12 .4331	+0/-0.005	8.000 +0/- .015 .3150	20 .8	.60 .024	11.0 .43	32 1.3	500 19.7	N/A	N/A	N/A		3,730 839	4,140 931
MCFR 19 B	MCFR 19 SB										Cylindrical						
MCFR 19 X	MCFR 19 SX		+0/- .009 +0/- .0004														
MCFR 19 BX	MCFR 19 SBX																
MCFRE 19	MCFRE 19 S	19.000 .7480	+0/- .050 +0/- .002	11.000 +0/- .12 .4331	+0/-0.005	8.000 +0/- .015 .3150	20 .8	.60 .024	11.0 .43	32 1.3	500 19.7	0.5 .02	9 0.35	11 .43			
MCFRE 19 B	MCFRE 19 SB										Cylindrical						
MCFRE 19 X	MCFRE 19 SX		+0/- .009 +0/- .0004														
MCFRE 19 BX	MCFRE 19 SBX																

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

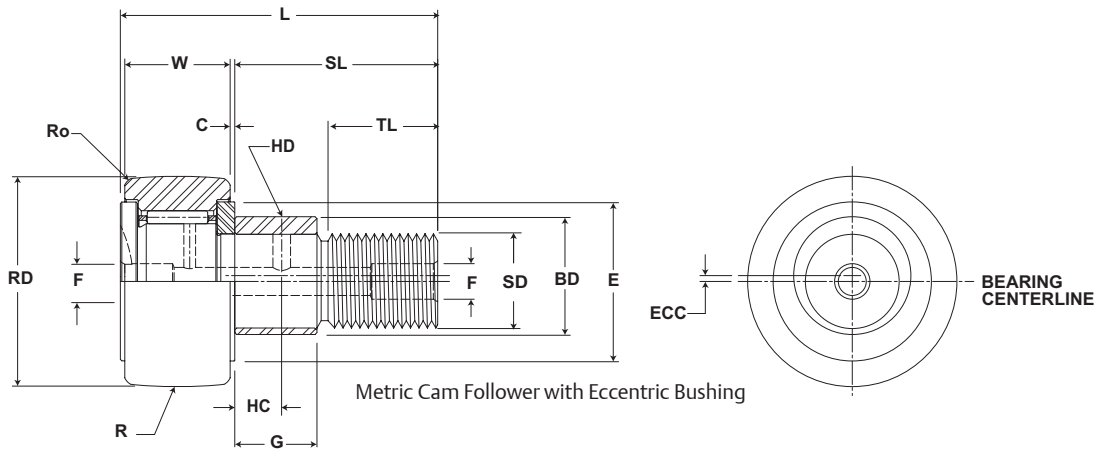
2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

Inch dimensions for reference only.

Metric CAMROL Bearings **McGILL®**

Cam Follower Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole	Outer Corner	Min. Clamping Diameter						Bearing Weight
					mm inch			mm inch			mm inch		Nm in-lb
		(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
MCFR 13	MCFR 13 S	-	-	3.1 .12	N/A	.3 .01	9 .4	5.000 .1969	+.012/-0 +.0005/- 0	M5x0.8	2.2 19	20,000	.01 .02
MCFR 13 B	MCFR 13 SB			-	3.1 .12								
MCFR 13 X	MCFR 13 SX			3.1 .12	N/A								
MCFR 13 BX	MCFR 13 SBX			-	3.1 .12								
MCF 16	MCF 16 S	-	-	4 .16	N/A	.3 .01	11 .4	6.000 .2362	+.012/-0 +.0005/- 0	M6x1	3 27	13,000	.02 .04
MCF 16 B	MCF 16 SB			-	4 .16								
MCF 16 X	MCF 16 SX			4 .16	N/A								
MCF 16 BX	MCF 16 SBX			-	4 .16								
MCFE 16	MCFE 16 S	-	-	4 .16	N/A	.3 .01	11 .4	11.050 .4350	+0.025/-0 +0.0009/- 0	M6x1	3 27	13,000	.02 .04
	MCFE 16 SB			-	4 .16								
	MCFE 16 SX			4 .16	N/A								
	MCFE 16 SBX			-	4 .16								
MCFR 16	MCFR 16 S	-	-	4 .16	N/A	.3 .01	11 .4	6.000 .2362	+.012/-0 +.0005/- 0	M6x1	3 27	19,500	.02 .04
MCFR 16 B	MCFR 16 SB			-	4 .16								
MCFR 16 X	MCFR 16 SX			4 .16	N/A								
MCFR 16 BX	MCFR 16 SBX			-	4 .16								
MCFRE 16	MCFRE 16 S	-	-	4 .16	N/A	.3 .01	11 .4	11.050 .4350	+.012/-0 +.0005/- 0	M6x1	3 27	19,500	.02 .04
	MCFRE 16 SB			-	4 .16								
	MCFRE 16 SX			4 .16	N/A								
	MCFRE 16 SBX			-	4 .16								
MCF 19	MCF 19 S	-	-	4 .16	N/A	.3 .01	13 .5	8.000 .3150	+.015/-0 +.0006/- 0	M8x1.25	8 71	10,500	.03 .07
MCF 19 B	MCF 19 SB			-	4 .16								
MCF 19 X	MCF 19 SX			4 .16	N/A								
MCF 19 BX	MCF 19 SBX			-	4 .16								
MCFE 19	MCFE 19 S	-	-	4 .16	N/A	.3 .01	13 .5	13.050 .5138	+0.025/-0 +0.0009/- 0	M8x1.25	8 71	10,500	.03 .07
	MCFE 19 SB			-	4 .16								
	MCFE 19 SX			4 .16	N/A								
	MCFE 19 SBX			-	4 .16								
MCFR 19	MCFR 19 S	-	-	4 .16	N/A	.3 .01	13 .5	8.000 .3150	+.015/-0 +.0006/- 0	M8x1.25	8 71	15,500	.03 .07
MCFR 19 B	MCFR 19 SB			-	4 .16								
MCFR 19 X	MCFR 19 SX			4 .16	N/A								
MCFR 19 BX	MCFR 19 SBX			-	4 .16								
MCFRE 19	MCFRE 19 S	-	-	4 .16	N/A	.3 .01	13 .5	13.050 .5138	+.015/-0 +.0006/- 0	M8x1.25	8 71	15,500	.03 .07
	MCFRE 19 SB			-	4 .16								
	MCFRE 19 SX			4 .16	N/A								
	MCFRE 19 SBX			-	4 .16								

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

* Sizes 13 - 19 have no lube holes in the threaded end of the stud.

Bearing Selection
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Nomenclature Aid
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Features & Benefits
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Technical Engineering
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McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

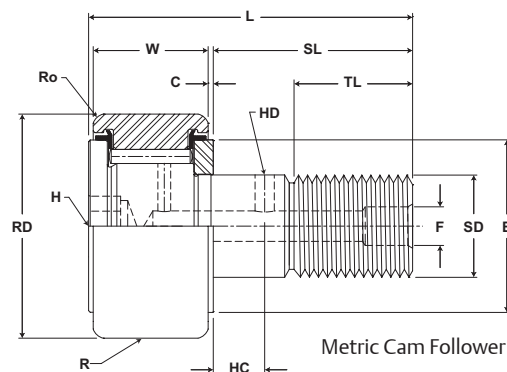
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical Suffix MCF-xx-X	Eccentric Base Modifier MCFE-xx				
		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch					
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/- .15 + .002/- .006	(Ref)		
MCF 22	MCF 22 S	22.000 .8661	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	12.0 .47	36 1.4	500 19.7	N/A	N/A	N/A	7,850 1,765	10,400 2,338
MCF 22 B	MCF 22 SB		Cylindrical														
MCF 22 X	MCF 22 SX																
MCF 22 BX	MCF 22 SBX																
MCFE 22	MCFE 22 S	22.000 .8661	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	12.0 .47	36 1.4	500 19.7	0.5 .02	10 0.39	13 .51	5,200 1,169	6,050 1,360
MCFE 22 SB	Cylindrical																
MCFE 22 SX																	
MCFE 22 SBX																	
MCFR 22	MCFR 22 S	22.000 .8661	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	12.0 .47	36 1.4	500 19.7	N/A	N/A	N/A	7,850 1,765	10,400 2,338
MCFR 22 B	MCFR 22 SB		Cylindrical														
MCFR 22 X	MCFR 22 SX																
MCFR 22 BX	MCFR 22 SBX																
MCFRE 22	MCFRE 22 S	22.000 .8661	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	12.0 .47	36 1.4	500 19.7	0.5 .02	10 0.39	13 .51	5,200 1,169	6,050 1,360
MCFRE 22 SB	Cylindrical																
MCFRE 22 SX																	
MCFRE 22 SBX																	
MCF 22A	MCF 22A S	22.000 .8661	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	13.0 .51	36 1.4	500 19.7	N/A	N/A	N/A	7,850 1,765	10,400 2,338
MCF 22A B	MCF 22A SB		Cylindrical														
MCF 22A X	MCF 22A SX																
MCF 22A BX	MCF 22A SBX																
MCFE 22A	MCFE 22A S	22.000 .8661	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	13.0 .51	36 1.4	500 19.7	0.5 .02	10 0.39	13 .51	5,200 1,169	6,050 1,360
MCFE 22A SB	Cylindrical																
MCFE 22A SX																	
MCFE 22A SBX																	
MCFR 22A	MCFR 22A S	22.000 .8661	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	13.0 .51	36 1.4	500 19.7	N/A	N/A	N/A	5,200 1,169	6,050 1,360
MCFR 22A B	MCFR 22A SB		Cylindrical														
MCFR 22A X	MCFR 22A SX																
MCFR 22A BX	MCFR 22A SBX																
MCFRE 22A	MCFRE 22A S	22.000 .8661	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	13.0 .51	36 1.4	500 19.7	0.5 .02	10 0.39	13 .51	5,200 1,169	6,050 1,360
MCFRE 22A SB	Cylindrical																
MCFRE 22A SX																	
MCFRE 22A SBX																	

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

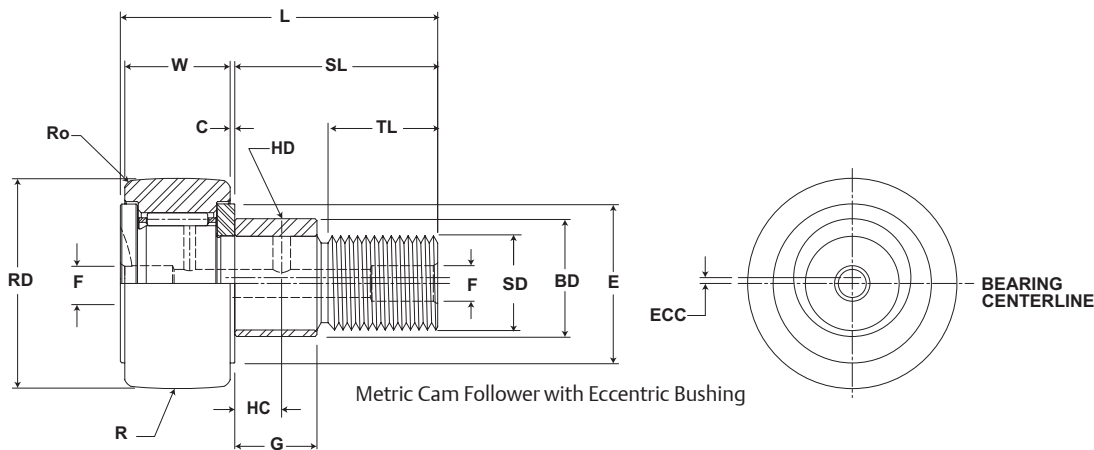
Inch dimensions for reference only.

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.

Metric CAMROL Bearings **McGILL**

Cam Follower Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole	Outer Corner	Min. Clamping Diameter						Bearing Weight
					Suffix MCF_xx B			mm inch	mm inch		mm inch	mm inch	Nm in-lb
		(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
MCF 22	MCF 22 S	-	-	.4 .16	N/A	.5 .02	15 .6	10.000 .3937	+.015/-0 +.0006/- 0	M10x1	15 133	9,000	.04 .09
MCF 22 B	MCF 22 SB			-	.4 .16								
MCF 22 X	MCF 22 SX			.4 .16	N/A								
MCF 22 BX	MCF 22 SBX			-	.4 .16								
MCFE 22	MCFE 22 S	-	-	.4 .16	N/A	.5 .02	15 .6	13.050 .5138	+0.025/-0 +0.0009/- 0	M10x1	15 133	9,000	.04 .09
	MCFE 22 SB			-	.4 .16								
	MCFE 22 SX			.4 .16	N/A								
	MCFE 22 SBX			-	.4 .16								
MCFR 22	MCFR 22 S	-	-	.4 .16	N/A	.5 .02	15 .6	10.000 .3937	+.015/-0 +.0006/- 0	M10x1	15 133	13,500	.04 .09
MCFR 22 B	MCFR 22 SB			-	.4 .16								
MCFR 22 X	MCFR 22 SX			.4 .16	N/A								
MCFR 22 BX	MCFR 22 SBX			-	.4 .16								
MCFRE 22	MCFRE 22 S	-	-	.4 .16	N/A	.5 .02	15 .6	13.050 .5138	+0.025/-0 +0.0009/- 0	M10x1	15 133	13,500	.04 .09
	MCFRE 22 SB			-	.4 .16								
	MCFRE 22 SX			.4 .16	N/A								
	MCFRE 22 SBX			-	.4 .16								
MCF 22A	MCF 22A S	-	-	.4 .16	N/A	.5 .02	15 .6	10.000 .3937	+.015/-0 +.0006/- 0	M10x1.25	15 133	9,000	.04 .09
MCF 22A B	MCF 22A SB			-	.5 .2								
MCF 22A X	MCF 22A SX			.4 .16	N/A								
MCF 22A BX	MCF 22A SBX			-	.5 .2								
MCFE 22A	MCFE 22A S	-	-	.4 .16	N/A	.5 .02	15 .6	13.050 .5138	+0.025/-0 +0.0009/- 0	M10x1.25	15 133	9,000	.04 .09
	MCFE 22A SB			-	.5 .2								
	MCFE 22A SX			.4 .16	N/A								
	MCFE 22A SBX			-	.5 .2								
MCFR 22A	MCFR 22A S	-	-	.4 .16	N/A	.5 .02	15 .6	10.000 .3937	+.015/-0 +.0006/- 0	M10x1.25	15 133	13,500	.04 .09
MCFR 22A B	MCFR 22A SB			-	.5 .2								
MCFR 22A X	MCFR 22A SX			.4 .2	N/A								
MCFR 22A BX	MCFR 22A SBX			-	.5 .2								
MCFRE 22A	MCFRE 22A S	-	-	.4 .16	N/A	.5 .02	15 .6	13.050 .5138	+0.025/-0 +0.0009/- 0	M10x1.25	15 133	13,500	.04 .09
	MCFRE 22A SB			-	.5 .2								
	MCFRE 22A SX			.4 .16	N/A								
	MCFRE 22A SBX			-	.5 .2								

McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

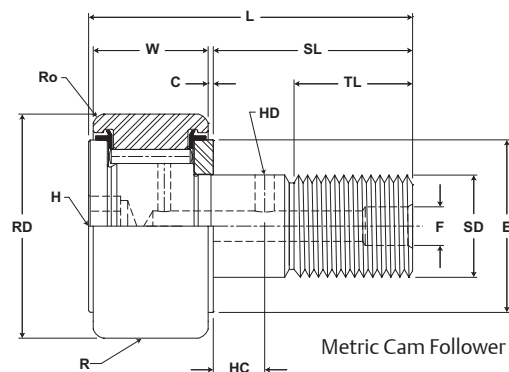
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating	
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical Suffix MCF-xx-X	Eccentric Base Modifier MCFE-xx					
		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch				
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/- .15 +.002/- .006	(Ref)			
MCF 26	MCF 26 S	26.000 1.0236	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	12.0 .47	36 1.4	500 19.7	N/A	N/A	N/A	7,850 1,765	10,400 2,338	
MCF 26 B	MCF 26 SB		Cylindrical															
MCF 26 X	MCF 26 SX																	
MCF 26 BX	MCF 26 SBX																	
MCFE 26	MCFE 26 S	26.000 1.0236	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	12.0 .47	36 1.4	500 19.7	0.5 .02	10 0.39	13 .51	5,200 1,169	6,050 1,360	
MCFE 26 B	MCFE 26 SB		Cylindrical															
MCFE 26 X	MCFE 26 SX																	
MCFE 26 BX	MCFE 26 SBX																	
MCFR 26	MCFR 26 S	26.000 1.0236	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	12.0 .47	36 1.4	500 19.7	N/A	N/A	N/A	7,850 1,765	10,400 2,338	
MCFR 26 B	MCFR 26 SB		Cylindrical															
MCFR 26 X	MCFR 26 SX																	
MCFR 26 BX	MCFR 26 SBX																	
MCFRE 26	MCFRE 26 S	26.000 1.0236	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	12.0 .47	36 1.4	500 19.7	0.5 .02	10 0.39	13 .51	5,200 1,169	6,050 1,360	
MCFRE 26 B	MCFRE 26 SB		Cylindrical															
MCFRE 26 X	MCFRE 26 SX																	
MCFRE 26 BX	MCFRE 26 SBX																	
MCF 26A	MCF 26A S	26.000 1.0236	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	13.0 .51	36 1.4	500 19.7	N/A	N/A	N/A	7,850 1,765	10,400 2,338	
MCF 26A B	MCF 26A SB		Cylindrical															
MCF 26A X	MCF 26A SX																	
MCF 26A BX	MCF 26A SBX																	
MCFE 26A	MCFE 26A S	26.000 1.0236	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	13.0 .51	36 1.4	500 19.7	0.5 .02	10 0.39	13 .51	5,200 1,169	6,050 1,360	
MCFE 26A B	MCFE 26A SB		Cylindrical															
MCFE 26A X	MCFE 26A SX																	
MCFE 26A BX	MCFE 26A SBX																	
MCFR 26A	MCFR 26A S	26.000 1.0236	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	13.0 .51	36 1.4	500 19.7	N/A	N/A	N/A	5,200 1,169	6,050 1,360	
MCFR 26A B	MCFR 26A SB		Cylindrical															
MCFR 26A X	MCFR 26A SX																	
MCFR 26A BX	MCFR 26A SBX																	
MCFRE 26A	MCFRE 26A S	26.000 1.0236	+0/- .050 +0/- .002	12.000 .4724	+0/- .12 +0/- .005	10.000 .3937	+0/- .015 +0/- .0006	23 .9	.60 .024	13.0 .51	36 1.4	500 19.7	0.5 .02	10 0.39	13 .51	7,850 1,765	10,400 2,338	
MCFRE 26A B	MCFRE 26A SB		Cylindrical															
MCFRE 26A X	MCFRE 26A SX																	
MCFRE 26A BX	MCFRE 26A SBX																	

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

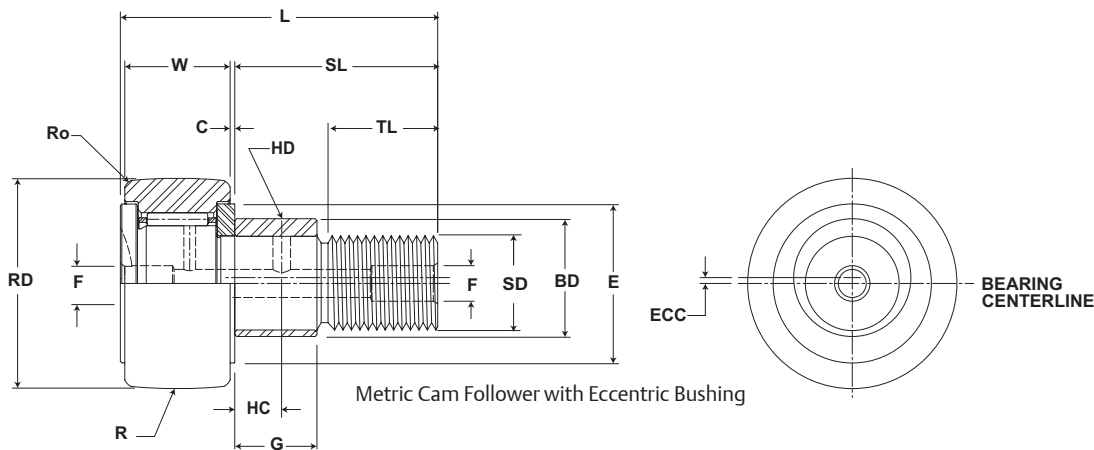
Inch dimensions for reference only.

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.

Metric CAMROL Bearings **McGILL®**

Cam Follower Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole	Outer Corner	Min. Clamping Diameter						Bearing Weight
					Suffix MCF_xx B			kg lb					
				mm inch		mm inch		mm inch		mm inch		Nm in-lb	RPM
		(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
MCF 26	MCF 26 S	-	-	.4 .16	N/A	.5 .02	15 .6	10.000 .3937	+.015/-0 +.0006/- 0	M10x1	15 133	9,000	.05 .11
MCF 26 B	MCF 26 SB			-	.4 .16								
MCF 26 X	MCF 26 SX			.4 .16	N/A								
MCF 26 BX	MCF 26 SBX			-	.4 .16								
MCFE 26	MCFE 26 S	-	-	.4 .16	N/A	.5 .02	15 .6	13.050 .5138	+0.025/-0 +0.0009/- 0	M10x1	15 133	9,000	.05 .11
MCFE 26 SB	MCFE 26 SB			-	.4 .16								
MCFE 26 SX	MCFE 26 SX			.4 .16	N/A								
MCFE 26 SBX	MCFE 26 SBX			-	.4 .16								
MCFR 26	MCFR 26 S	-	-	.4 .16	N/A	.5 .02	15 .6	10.000 .3937	+.015/-0 +.0006/- 0	M10x1	15 133	13,500	.05 .11
MCFR 26 B	MCFR 26 SB			-	.4 .16								
MCFR 26 X	MCFR 26 SX			.4 .16	N/A								
MCFR 26 BX	MCFR 26 SBX			-	.4 .16								
MCFRE 26	MCFRE 26 S	-	-	.4 .16	N/A	.5 .02	15 .6	13.050 .5138	+0.025/-0 +0.0009/- 0	M10x1	15 133	13,500	.05 .11
MCFRE 26 SB	MCFRE 26 SB			-	.4 .16								
MCFRE 26 SX	MCFRE 26 SX			.4 .16	N/A								
MCFRE 26 SBX	MCFRE 26 SBX			-	.4 .16								
MCF 26A	MCF 26A S	-	-	.4 .16	N/A	.5 .02	19 .7	10.000 .3937	+.015/-0 +.0006/- 0	M10x1.25	22 195	9,000	.05 .11
MCF 26A B	MCF 26A SB			-	.5 .2								
MCF 26A X	MCF 26A SX			.4 .16	N/A								
MCF 26A BX	MCF 26A SBX			-	.5 .2								
MCFE 26A	MCFE 26A S	-	-	.4 .16	N/A	.5 .02	19 .7	13.050 .5138	+0.025/-0 +0.0009/- 0	M10x1.25	22 195	9,000	.05 .11
MCFE 26A SB	MCFE 26A SB			-	.5 .2								
MCFE 26A SX	MCFE 26A SX			.4 .16	N/A								
MCFE 26A SBX	MCFE 26A SBX			-	.5 .2								
MCFR 26A	MCFR 26A S	-	-	.4 .16	N/A	.5 .02	19 .7	10.000 .3937	+.015/-0 +.0006/- 0	M10x1.25	22 195	13,500	.05 .11
MCFR 26A B	MCFR 26A SB			-	.5 .2								
MCFR 26A X	MCFR 26A SX			.4 .16	N/A								
MCFR 26A BX	MCFR 26A SBX			-	.5 .2								
MCFRE 26A	MCFRE 26A S	-	-	.4 .16	N/A	.5 .02	19 .7	13.050 .5138	+0.025/-0 +0.0009/- 0	M10x1.25	22 195	13,500	.05 .11
MCFRE 26A SB	MCFRE 26A SB			-	.5 .2								
MCFRE 26A SX	MCFRE 26A SX			.4 .16	N/A								
MCFRE 26A SBX	MCFRE 26A SBX			-	.5 .2								

McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

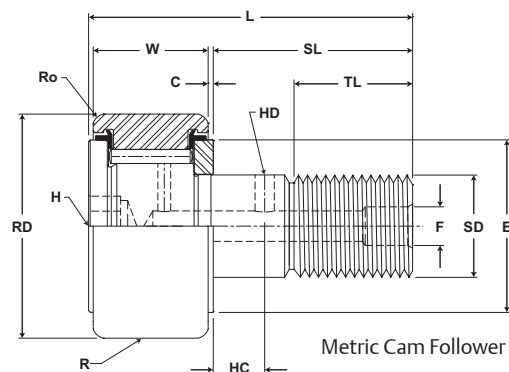
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical	Eccentric				
												Suffix MCF-xx-X	Base Modifier MCFE-xx				
		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch	mm inch				
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/- .15 + .002/- .006	(Ref)	N/lb	N/lb
MCF 30	MCF 30 S	30.000 1.1811	+0/- .050 +0/- .002	14.000 .5512	+0/- .12 +0/- .005	12.000 .4724	+0/- .018 +0/- .0007	25 .9	.60 .024	14.0 .55	40 1.6	500 19.7	N/A	N/A	N/A	11,080 2,491	15,300 3,440
MCF 30 B	MCF 30 SB		Cylindrical														
MCF 30 X	MCF 30 SX																
MCF 30 BX	MCF 30 SBX																
MCFE 30	MCFE 30 S	30.000 1.1811	+0/- .050 +0/- .002	14.000 .5512	+0/- .12 +0/- .005	12.000 .4724	+0/- .018 +0/- .0007	25 .9	.60 .024	14.0 .55	40 1.6	500 19.7	0.5 .02	11 0.43	15 .59	6,860 1,542	8,050 1,810
MCFE 30 B	MCFE 30 SB		Cylindrical														
MCFE 30 SX	MCFE 30 SBX																
MCFR 30	MCFR 30 S											30.000 1.1811					
MCFR 30 B	MCFR 30 SB	Cylindrical															
MCFR 30 X	MCFR 30 SX																
MCFR 30 BX	MCFR 30 SBX																
MCFRE 30	MCFRE 30 S	30.000 1.1811	+0/- .050 +0/- .002	14.000 .5512	+0/- .12 +0/- .005	12.000 .4724	+0/- .018 +0/- .0007	25 .9	.60 .024	14.0 .55	40 1.6	500 19.7	0.5 .02	11 0.43	15 .59	6,860 1,542	8,050 1,810
MCFRE 30 B	MCFRE 30 SB		Cylindrical														
MCFRE 30 SX	MCFRE 30 SBX																
MCF 32	MCF 32 S											32.000 1.2598					
MCF 32 B	MCF 32 SB	Cylindrical															
MCF 32 X	MCF 32 SX																
MCF 32 BX	MCF 32 SBX																
MCFE 32	MCFE 32 S	32.000 1.2598	+0/- .050 +0/- .002	14.000 .5512	+0/- .12 +0/- .005	12.000 .4724	+0/- .018 +0/- .0007	25 .9	.60 .024	14.0 .55	40 1.6	500 19.7	0.5 .02	11 0.43	15 .59	6,860 1,542	8,050 1,810
MCFE 32 B	MCFE 32 SB		Cylindrical														
MCFE 32 SX	MCFE 32 SBX																
MCFR 32	MCFR 32 S											32.000 1.2598					
MCFR 32 B	MCFR 32 SB	Cylindrical															
MCFR 32 X	MCFR 32 SX																
MCFR 32 BX	MCFR 32 SBX																
MCFRE 32	MCFRE 32 S	32.000 1.2598	+0/- .050 +0/- .002	14.000 .5512	+0/- .12 +0/- .005	12.000 .4724	+0/- .018 +0/- .0007	25 .9	.60 .024	14.0 .55	40 1.6	500 19.7	0.5 .02	11 0.43	15 .59	6,860 1,542	8,050 1,810
MCFRE 32 B	MCFRE 32 SB		Cylindrical														
MCFRE 32 SX	MCFRE 32 SBX																

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

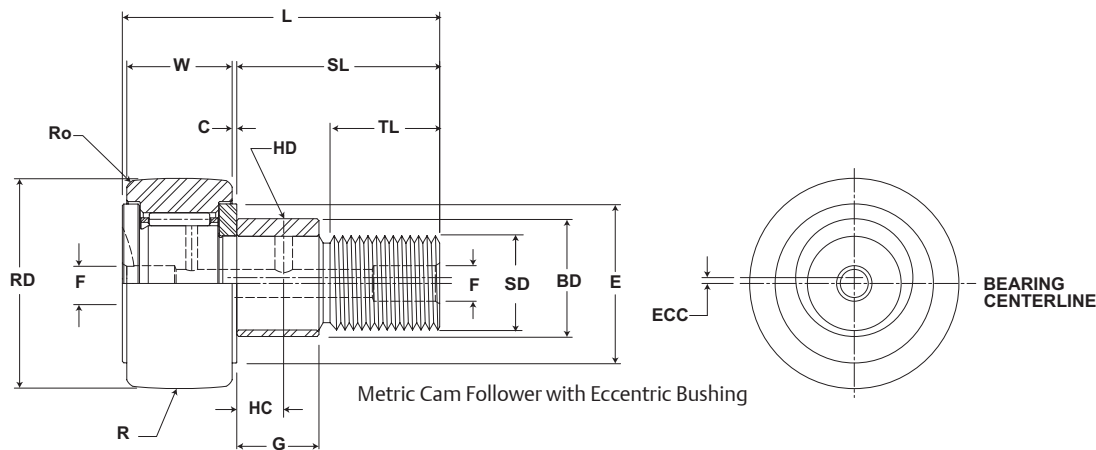
Inch dimensions for reference only.

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.

Metric CAMROL Bearings **McGILL®**

Cam Follower
Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole Suffix MCF_xx B	Outer Corner	Min. Clamping Diameter						Bearing Weight
		mm inch		mm inch		mm inch		mm inch			Nm in-lb	RPM	kg lb
		(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
MCF 30	MCF 30 S	6 .236	3 .118	6 .24	N/A	1.0 .04	19 .7	12.000 .4724	+.018/-0 +.0007/- 0	M12x1.5	22 195	6,400	
MCF 30 B	MCF 30 SB			-	6 .24								
MCF 30 X	MCF 30 SX			6 .24	N/A								
MCF 30 BX	MCF 30 SBX			-	6 .24								
MCFE 30	MCFE 30 S	N/A	N/A	6 .24	N/A	1.0 .04	19 .7	15.050 .5925	+0.025/-0 +0.0009/- 0	M12x1.5	22 195	6,400	
	MCFE 30 SB			-	6 .24								
	MCFE 30 SX			6 .24	N/A								
	MCFE 30 SBX			-	6 .24								
MCFR 30	MCFR 30 S	6 .236	3 .118	6 .24	N/A	1.0 .04	19 .7	12.000 .4724	+.018/-0 +.0007/- 0	M12x1.5	22 195	9,600	
MCFR 30 B	MCFR 30 SB			-	6 .24								
MCFR 30 X	MCFR 30 SX			6 .24	N/A								
MCFR 30 BX	MCFR 30 SBX			-	6 .24								
MCFRE 30	MCFRE 30 S	N/A	N/A	6 .24	N/A	1.0 .04	19 .7	15.050 .5925	+0.025/-0 +0.0009/- 0	M12x1.5	22 195	9,600	
	MCFRE 30 SB			-	6 .24								
	MCFRE 30 SX			6 .24	N/A								
	MCFRE 30 SBX			-	6 .24								
MCF 32	MCF 32 S	6 .236	3 .118	6 .24	N/A	1.0 .04	21 .8	12.000 .4724	+.018/-0 +.0007/- 0	M12x1.5	57 504	6,400	
MCF 32 B	MCF 32 SB			-	6 .24								
MCF 32 X	MCF 32 SX			6 .24	N/A								
MCF 32 BX	MCF 32 SBX			-	6 .24								
MCFE 32	MCFE 32 S	N/A	N/A	6 .24	N/A	1.0 .04	21 .8	15.050 .5925	+0.025/-0 +0.0009/- 0	M12x1.5	57 504	6,400	
	MCFE 32 SB			-	6 .24								
	MCFE 32 SX			6 .24	N/A								
	MCFE 32 SBX			-	6 .24								
MCFR 32	MCFR 32 S	6 .236	3 .118	6 .24	N/A	1.0 .04	21 .8	12.000 .4724	+.018/-0 +.0007/- 0	M12x1.5	57 504	9,600	
MCFR 32 B	MCFR 32 SB			-	6 .24								
MCFR 32 X	MCFR 32 SX			6 .24	N/A								
MCFR 32 BX	MCFR 32 SBX			-	6 .24								
MCFRE 32	MCFRE 32 S	N/A	N/A	6 .24	N/A	1.0 .04	21 .8	15.050 .5925	+0.025/-0 +0.0009/- 0	M12x1.5	57 504	9,600	
	MCFRE 32 SB			-	6 .24								
	MCFRE 32 SX			6 .24	N/A								
	MCFRE 32 SBX			-	6 .24								

McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

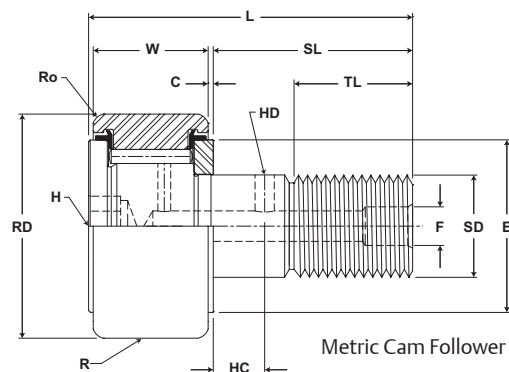
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical	Eccentric				
												Suffix MCF-xx-X	Base Modifier MCFE-xx				
		mm inch		mm inch		mm inch		mm inch		mm inch	mm inch	mm inch	mm inch				
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/-15 +0.002/-0.006	(Ref)	N/lb	N/lb
MCF 35	MCF 35 S	35.000 1.3780	+0/-0.050 +0/-0.002	18.000 +0/-0.12 .7087	+0/-0.005	16.000 +0/-0.018 .6299	+0/-0.0007	33 1.3	.80 .031	18.0 .71	52 2.0	500 19.7	N/A	N/A	N/A	16,970 3,815 16,970 3,815	28,500 6,407 28,500 6,407
MCF 35 B	MCF 35 SB		Cylindrical														
MCF 35 X	MCF 35 SX																
MCF 35 BX	MCF 35 SBX																
MCFE 35	MCFE 35 S	35.000 1.3780	+0/-0.050 +0/-0.002	18.000 +0/-0.12 .7087	+0/-0.005	16.000 +0/-0.018 .6299	+0/-0.0007	33 1.3	.80 .031	18.0 .71	52 2.0	500 19.7	0.5 .02	14 0.55	20 .79		
MCFE 35 SB	Cylindrical																
MCFE 35 SX																	
MCFE 35 SBX																	
MCFR 35	MCFR 35 S	35.000 1.3780	+0/-0.050 +0/-0.002	18.000 +0/-0.12 .7087	+0/-0.005	16.000 +0/-0.018 .6299	+0/-0.0007	33 1.3	.80 .031	18.0 .71	52 2.0	500 19.7	N/A	N/A	N/A	10,890 2,448	15,900 3,575
MCFR 35 B	MCFR 35 SB		Cylindrical														
MCFR 35 X	MCFR 35 SX																
MCFR 35 BX	MCFR 35 SBX																
MCFRE 35	MCFRE 35 S	35.000 1.3780	+0/-0.050 +0/-0.002	18.000 +0/-0.12 .7087	+0/-0.005	16.000 +0/-0.018 .6299	+0/-0.0007	33 1.3	.80 .031	18.0 .71	52 2.0	500 19.7	0.5 .02	14 0.55	20 .79		
MCFRE 35 SB	Cylindrical																
MCFRE 35 SX																	
MCFRE 35 SBX																	
MCF 40	MCF 40 S	40.000 1.5748	+0/-0.050 +0/-0.002	20.000 +0/-0.12 .7874	+0/-0.005	18.000 +0/-0.018 .7087	+0/-0.0007	37 1.4	.80 .031	19.0 .75	58 2.3	500 19.7	N/A	N/A	N/A	19,420 4,366	32,200 7,239
MCF 40 B	MCF 40 SB		Cylindrical														
MCF 40 X	MCF 40 SX																
MCF 40 BX	MCF 40 SBX																
MCFE 40	MCFE 40 S	40.000 1.5748	+0/-0.050 +0/-0.002	20.000 +0/-0.12 .7874	+0/-0.005	18.000 +0/-0.018 .7087	+0/-0.0007	37 1.4	.80 .031	19.0 .75	58 2.3	500 19.7	1 .04	16 0.63	22 .87		
MCFE 40 SB	Cylindrical																
MCFE 40 SX																	
MCFE 40 SBX																	
MCFR 40	MCFR 40 S	40.000 1.5748	+0/-0.050 +0/-0.002	20.000 +0/-0.12 .7874	+0/-0.005	18.000 +0/-0.018 .7087	+0/-0.0007	37 1.4	.80 .031	19.0 .75	58 2.3	500 19.7	N/A	N/A	N/A	13,340 2,999	19,800 4,451
MCFR 40 B	MCFR 40 SB		Cylindrical														
MCFR 40 X	MCFR 40 SX																
MCFR 40 BX	MCFR 40 SBX																
MCFRE 40	MCFRE 40 S	40.000 1.5748	+0/-0.050 +0/-0.002	20.000 +0/-0.12 .7874	+0/-0.005	18.000 +0/-0.018 .7087	+0/-0.0007	37 1.4	.80 .031	19.0 .75	58 2.3	500 19.7	1 .04	16 0.63	22 .87		
MCFRE 40 SB	Cylindrical																
MCFRE 40 SX																	
MCFRE 40 SBX																	

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

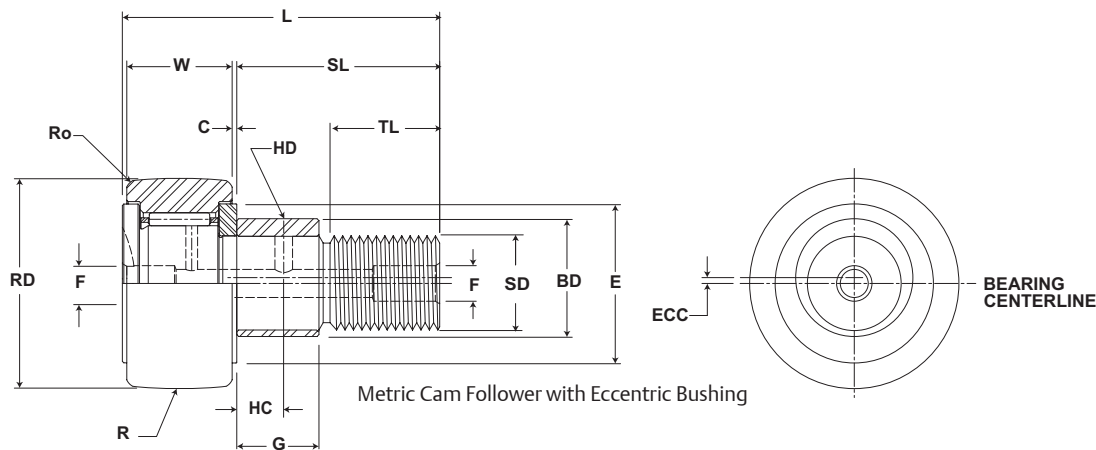
Inch dimensions for reference only.

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Metric CAMROL Bearings **McGILL**

Cam Follower Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole Suffix MCF_xx B	Outer Corner	Min. Clamping Diameter						Bearing Weight
		mm inch	mm inch	mm inch	mm inch	Nom.	Tol.	kg lb					
(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)				Nm in-lb	RPM	
MCF 35	MCF 35 S	8 .315	3 .118	6 24	N/A	1.0 .04	24 .9	16.000 .6299	+.018/-0 +.0007/- 0	M16x1.5	85 752	4,200	.16 .35
MCF 35 B	MCF 35 SB			-	8 .31								
MCF 35 X	MCF 35 SX			6 24	N/A								
MCF 35 BX	MCF 35 SBX			-	8 .31								
MCFE 35	MCFE 35 S	N/A	N/A	6 24	N/A	1.0 .04	24 .9	20.050 .7894	+0.025/-0 +0.0009/- 0	M16x1.5	85 752	4,200	.16 .35
	MCFE 35 SB			-	8 .31								
	MCFE 35 SX			6 24	N/A								
	MCFE 35 SBX			-	8 .31								
MCFR 35	MCFR 35 S	8 .315	3 .118	6 24	N/A	1.0 .04	24 .9	16.000 .6299	+.018/-0 +.0007/- 0	M16x1.5	85 752	6,300	.16 .35
MCFR 35 B	MCFR 35 SB			-	8 .31								
MCFR 35 X	MCFR 35 SX			6 24	N/A								
MCFR 35 BX	MCFR 35 SBX			-	8 .31								
MCFRE 35	MCFRE 35 S	N/A	N/A	6 24	N/A	1.0 .04	24 .9	20.050 .7894	+0.025/-0 +0.0009/- 0	M16x1.5	85 752	6,300	.16 .35
	MCFRE 35 SB			-	8 .31								
	MCFRE 35 SX			6 24	N/A								
	MCFRE 35 SBX			-	8 .31								
MCF 40	MCF 40 S	8 .315	3 .118	6 24	N/A	1.5 .06	27 1.1	18.000 .7087	+.018/-0 +.0007/- 0	M18x1.5	85 752	3,300	.25 .55
MCF 40 B	MCF 40 SB			-	8 .31								
MCF 40 X	MCF 40 SX			6 24	N/A								
MCF 40 BX	MCF 40 SBX			-	8 .31								
MCFE 40	MCFE 40 S	N/A	N/A	6 24	N/A	1.5 .06	27 1.1	22.050 .8681	+0.025/-0 +0.0009/- 0	M18x1.5	85 752	3,300	.25 .55
	MCFE 40 SB			-	8 .31								
	MCFE 40 SX			6 24	N/A								
	MCFE 40 SBX			-	8 .31								
MCFR 40	MCFR 40 S	8 .315	3 .118	6 24	N/A	1.5 .06	27 1.1	18.000 .7087	+.018/-0 +.0007/- 0	M18x1.5	85 752	5,000	.25 .55
MCFR 40 B	MCFR 40 SB			-	8 .31								
MCFR 40 X	MCFR 40 SX			6 24	N/A								
MCFR 40 BX	MCFR 40 SBX			-	8 .31								
MCFRE 40	MCFRE 40 S	N/A	N/A	6 24	N/A	1.5 .06	27 1.1	22.050 .8681	+0.025/-0 +0.0009/- 0	M18x1.5	85 752	5,000	.25 .55
	MCFRE 40 SB			-	8 .31								
	MCFRE 40 SX			6 24	N/A								
	MCFRE 40 SBX			-	8 .31								

McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

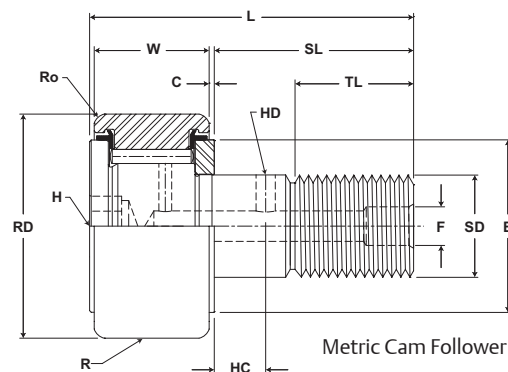
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical	Eccentric				
												Suffix MCF-xx-X	Base Modifier MCFE-xx				
		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch	mm inch				
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/- .15 + .002/- .006	(Ref)	N/lb	N/lb
MCF 40A	MCF 40A S	40.000 1.5748	+0/- .050 +0/- .002	20.000 .7874	+0/- .12 +0/- .005	18.000 .7087	+0/- .018 +0/- .0007	37 1.4	.80 .031	20.0 .79	58 2.3	500 19.7	N/A	N/A	N/A	19,420 4,366	32,200 7,239
MCF 40A B	MCF 40A SB		Cylindrical														
MCF 40A X	MCF 40A SX																
MCF 40A BX	MCF 40A SBX																
MCFE 40A	MCFE 40A S	40.000 1.5748	+0/- .050 +0/- .002	20.000 .7874	+0/- .12 +0/- .005	18.000 .7087	+0/- .018 +0/- .0007	37 1.4	.80 .031	20.0 .79	58 2.3	500 19.7	1 .04	16 0.63	22 .87		
	MCFE 40A SB		Cylindrical														
	MCFE 40A SX																
	MCFE 40A SBX																
MCFR 40A	MCFR 40A S	40.000 1.5748	+0/- .050 +0/- .002	20.000 .7874	+0/- .12 +0/- .005	18.000 .7087	+0/- .018 +0/- .0007	37 1.4	.80 .031	20.0 .79	58 2.3	500 19.7	N/A	N/A	N/A	13,340 2,999	19,800 4,451
MCFR 40A B	MCFR 40A SB		Cylindrical														
MCFR 40A X	MCFR 40A SX																
MCFR 40A BX	MCFR 40A SBX																
MCFRE 40A	MCFRE 40A S	40.000 1.5748	+0/- .050 +0/- .002	20.000 .7874	+0/- .12 +0/- .005	18.000 .7087	+0/- .018 +0/- .0007	37 1.4	.80 .031	20.0 .79	58 2.3	500 19.7	1 .04	16 0.63	22 .87		
	MCFRE 40A SB		Cylindrical														
	MCFRE 40A SX																
	MCFRE 40A SBX																
MCF 47	MCF 47 S	47.000 1.8504	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	21.0 .83	66 2.6	500 19.7	N/A	N/A	N/A	25,690 5,776	46,700 10,499
MCF 47 B	MCF 47 SB		Cylindrical														
MCF 47 X	MCF 47 SX																
MCF 47 BX	MCF 47 SBX																
MCFE 47	MCFE 47 S	47.000 1.8504	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	21.0 .83	66 2.6	500 19.7	1 .04	18 0.71	24 .94		
	MCFE 47 SB		Cylindrical														
	MCFE 47 SX																
	MCFE 47 SBX																
MCFR 47	MCFR 47 S	47.000 1.8504	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	21.0 .83	66 2.6	500 19.7	N/A	N/A	N/A	17,750 3,991	29,800 6,700
MCFR 47 B	MCFR 47 SB		Cylindrical														
MCFR 47 X	MCFR 47 SX																
MCFR 47 BX	MCFR 47 SBX																
MCFRE 47	MCFRE 47 S	47.000 1.8504	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	21.0 .83	66 2.6	500 19.7	1 .04	18 0.71	24 .94		
	MCFRE 47 SB		Cylindrical														
	MCFRE 47 SX																
	MCFRE 47 SBX																

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

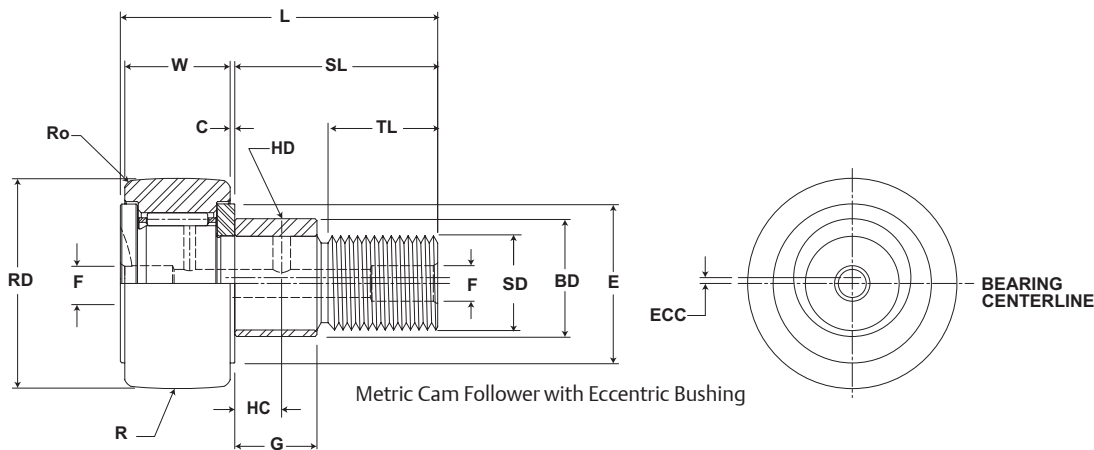
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Metric CAMROL Bearings **McGILL**

Cam Follower Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole Suffix MCF_xx B	Outer Corner	Min. Clamping Diameter						Bearing Weight
		mm inch		mm inch		mm inch		mm inch			Nm in-lb	RPM	kg lb
		(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
MCF 40A	MCF 40A S	10 .394	3 .118	$\frac{6}{24}$	N/A	1.5 .06	27 1.1	18.000 .7087	+.018/-0 +.0007/- 0	M18x1.5	118 1,044	3,300	.25 .55
MCF 40A B	MCF 40A SB			-	$\frac{8}{31}$								
MCF 40A X	MCF 40A SX			$\frac{6}{24}$	N/A								
MCF 40A BX	MCF 40A SBX			-	$\frac{8}{31}$								
MCFE 40A	MCFE 40A S	N/A	N/A	$\frac{6}{24}$	N/A	1.5 .06	27 1.1	22.050 .8681	+.0025/-0 +0.0009/- 0	M18x1.5	118 1,044	3,300	.25 .55
	MCFE 40A SB			-	$\frac{8}{31}$								
	MCFE 40A SX			$\frac{6}{24}$	N/A								
	MCFE 40A SBX			-	$\frac{8}{31}$								
MCFR 40A	MCFR 40A S	10 .394	3 .118	$\frac{6}{24}$	N/A	1.5 .06	27 1.1	18.000 .7087	+.018/-0 +.0007/- 0	M18x1.5	118 1,044	5,000	.25 .55
MCFR 40A B	MCFR 40A SB			-	$\frac{8}{31}$								
MCFR 40A X	MCFR 40A SX			$\frac{6}{24}$	N/A								
MCFR 40A BX	MCFR 40A SBX			-	$\frac{8}{31}$								
MCFRE 40A	MCFRE 40A S	N/A	N/A	$\frac{6}{24}$	N/A	1.5 .06	27 1.1	22.050 .8681	+.0025/-0 +0.0009/- 0	M18x1.5	118 1,044	5,000	.25 .55
	MCFRE 40A SB			-	$\frac{8}{31}$								
	MCFRE 40A SX			$\frac{6}{24}$	N/A								
	MCFRE 40A SBX			-	$\frac{8}{31}$								
MCF 47	MCF 47 S	9 .354	4 .157	$\frac{8}{31}$	N/A	1.5 .06	30 1.2	20.000 .7874	+.021/-0 +.0008/- 0	M20x1.5	118 1,044	2,600	.39 .86
MCF 47 B	MCF 47 SB			-	$\frac{10}{39}$								
MCF 47 X	MCF 47 SX			$\frac{8}{31}$	N/A								
MCF 47 BX	MCF 47 SBX			-	$\frac{10}{39}$								
MCFE 47	MCFE 47 S	N/A	N/A	$\frac{8}{31}$	N/A	1.5 .06	30 1.2	24.050 .9469	+.0025/-0 +0.0009/- 0	M20x1.5	118 1,044	2,600	.39 .86
	MCFE 47 SB			-	$\frac{10}{39}$								
	MCFE 47 SX			$\frac{8}{31}$	N/A								
	MCFE 47 SBX			-	$\frac{10}{39}$								
MCFR 47	MCFR 47 S	9 .354	4 .157	$\frac{8}{31}$	N/A	1.5 .06	30 1.2	20.000 .7874	+.021/-0 +.0008/- 0	M20x1.5	118 1,044	3,900	.39 .86
MCFR 47 B	MCFR 47 SB			-	$\frac{10}{39}$								
MCFR 47 X	MCFR 47 SX			$\frac{8}{31}$	N/A								
MCFR 47 BX	MCFR 47 SBX			-	$\frac{10}{39}$								
MCFRE 47	MCFRE 47 S	N/A	N/A	$\frac{8}{31}$	N/A	1.5 .06	30 1.2	24.050 .9469	+.0025/-0 +0.0009/- 0	M20x1.5	118 1,044	3,900	.39 .86
	MCFRE 47 SB			-	$\frac{10}{39}$								
	MCFRE 47 SX			$\frac{8}{31}$	N/A								
	MCFRE 47 SBX			-	$\frac{10}{39}$								

McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

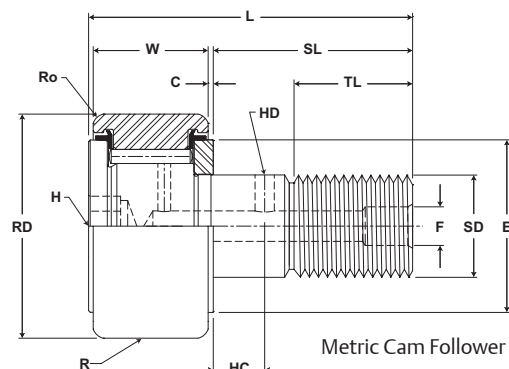
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating	
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical Suffix MCF-xx-X	Eccentric Base Modifier MCFE-xx					
		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch				
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/- .15 + .002/- .006	(Ref)			
MCF 47A	MCF 47A S	47.000 1.8504	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	22.0 .87	66 2.6	500 19.7	N/A	N/A	N/A	25,690 5,776	46,700 10,499	
MCF 47A B	MCF 47A SB		Cylindrical															
MCF 47A X	MCF 47A SX																	
MCF 47A BX	MCF 47A SBX																	
MCFE 47A	MCFE 47A S	47.000 1.8504	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	22.0 .87	66 2.6	500 19.7	1 .04	18 0.71	24 .94	17,750 3,991	29,800 6,700	
	MCFE 47A SB		Cylindrical															
	MCFE 47A SX																	
	MCFE 47A SBX																	
MCFR 47A	MCFR 47A S	47.000 1.8504	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	22.0 .87	66 2.6	500 19.7	N/A	N/A	N/A	17,750 3,991	29,800 6,700	
MCFR 47A B	MCFR 47A SB		Cylindrical															
MCFR 47A X	MCFR 47A SX																	
MCFR 47A BX	MCFR 47A SBX																	
MCFRE 47A	MCFRE 47A S	47.000 1.8504	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	22.0 .87	66 2.6	500 19.7	1 .04	18 0.71	24 .94	17,750 3,991	29,800 6,700	
	MCFRE 47A SB		Cylindrical															
	MCFRE 47A SX																	
	MCFRE 47A SBX																	
MCF 52	MCF 52 S	52.000 2.0472	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	21.0 .83	66 2.6	500 19.7	N/A	N/A	N/A	25,690 5,776	46,700 10,499	
MCF 52 B	MCF 52 SB		Cylindrical															
MCF 52 X	MCF 52 SX																	
MCF 52 BX	MCF 52 SBX																	
MCFE 52	MCFE 52 S	52.000 2.0472	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	21.0 .83	66 2.6	500 19.7	1 .04	18 0.71	24 .94	17,750 3,991	29,800 6,700	
	MCFE 52 SB		Cylindrical															
	MCFE 52 SX																	
	MCFE 52 SBX																	
MCFR 52	MCFR 52 S	52.000 2.0472	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	21.0 .83	66 2.6	500 19.7	N/A	N/A	N/A	17,750 3,991	29,800 6,700	
MCFR 52 B	MCFR 52 SB		Cylindrical															
MCFR 52 X	MCFR 52 SX																	
MCFR 52 BX	MCFR 52 SBX																	
MCFRE 52	MCFRE 52 S	52.000 2.0472	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	21.0 .83	66 2.6	500 19.7	1 .04	18 0.71	24 .94	17,750 3,991	29,800 6,700	
	MCFRE 52 SB		Cylindrical															
	MCFRE 52 SX																	
	MCFRE 52 SBX																	

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

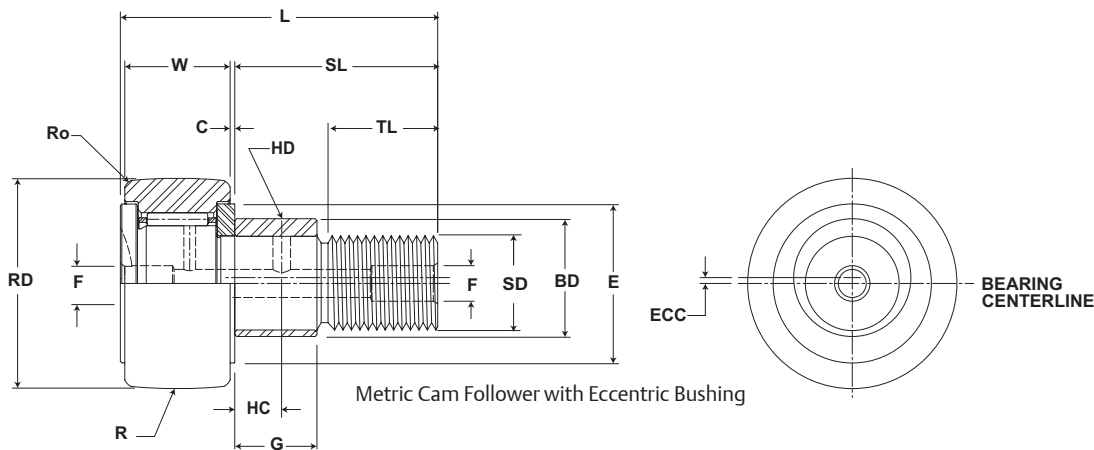
Inch dimensions for reference only.

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.

Metric CAMROL Bearings **McGILL®**

Cam Follower Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole Suffix MCF_xx B	Outer Corner	Min. Clamping Diameter						Bearing Weight
		mm inch		mm inch		mm inch		mm inch			Nm in-lb	RPM	kg lb
		(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
MCF 47A	MCF 47A S	12 .472	4 .157	8 .31	N/A	1.5 .06	30 1.2	20.000 .7874	+0.021/-0 +0.0008/- 0	M20x1.5	118 1,044	2,600	.39 .86
MCF 47A B	MCF 47A SB			-	10 .39								
MCF 47A X	MCF 47A SX			8 .31	N/A								
MCF 47A BX	MCF 47A SBX			-	10 .39								
MCFE 47A	MCFE 47A S	N/A	N/A	8 .31	N/A	1.5 .06	30 1.2	24.050 .9469	+0.025/-0 +0.0009/- 0	M20x1.5	118 1,044	2,600	.39 .86
	MCFE 47A SB			-	10 .39								
	MCFE 47A SX			8 .31	N/A								
	MCFE 47A SBX			-	10 .39								
MCFR 47A	MCFR 47A S	12 .472	4 .157	8 .31	N/A	1.5 .06	30 1.2	20.000 .7874	+0.021/-0 +0.0008/- 0	M20x1.5	118 1,044	3,900	.39 .86
MCFR 47A B	MCFR 47A SB			-	10 .39								
MCFR 47A X	MCFR 47A SX			8 .31	N/A								
MCFR 47A BX	MCFR 47A SBX			-	10 .39								
MCFRE 47A	MCFRE 47A S	N/A	N/A	8 .31	N/A	1.5 .06	30 1.2	24.050 .9469	+0.025/-0 +0.0009/- 0	M20x1.5	118 1,044	3,900	.39 .86
	MCFRE 47A SB			-	10 .39								
	MCFRE 47A SX			8 .31	N/A								
	MCFRE 47A SBX			-	10 .39								
MCF 52	MCF 52 S	9 .354	4 .157	8 .31	N/A	1.5 .06	36 1.4	20.000 .7874	+0.021/-0 +0.0008/- 0	M20x1.5	118 1,044	2,600	.45 .99
MCF 52 B	MCF 52 SB			-	10 .39								
MCF 52 X	MCF 52 SX			8 .31	N/A								
MCF 52 BX	MCF 52 SBX			-	10 .39								
MCFE 52	MCFE 52 S	N/A	N/A	8 .31	N/A	1.5 .06	36 1.4	24.050 .9469	+0.025/-0 +0.0009/- 0	M20x1.5	118 1,044	2,600	.45 .99
	MCFE 52 SB			-	10 .39								
	MCFE 52 SX			8 .31	N/A								
	MCFE 52 SBX			-	10 .39								
MCFR 52	MCFR 52 S	9 .354	4 .157	8 .31	N/A	1.5 .06	36 1.4	20.000 .7874	+0.021/-0 +0.0008/- 0	M20x1.5	118 1,044	3,900	.45 .99
MCFR 52 B	MCFR 52 SB			-	10 .39								
MCFR 52 X	MCFR 52 SX			8 .31	N/A								
MCFR 52 BX	MCFR 52 SBX			-	10 .39								
MCFRE 52	MCFRE 52 S	N/A	N/A	8 .31	N/A	1.5 .06	36 1.4	24.050 .9469	+0.025/-0 +0.0009/- 0	M20x1.5	118 1,044	3,900	.45 .99
	MCFRE 52 SB			-	10 .39								
	MCFRE 52 SX			8 .31	N/A								
	MCFRE 52 SBX			-	10 .39								

McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

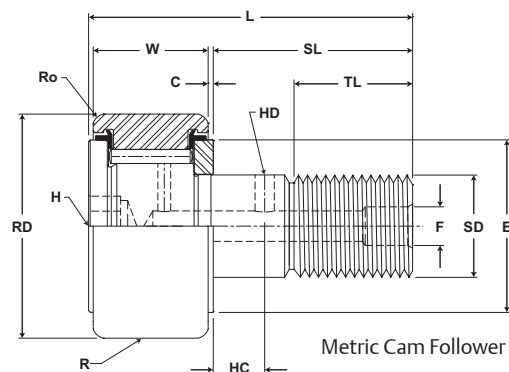
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical Suffix MCF-xx-X	Eccentric Base Modifier MCFE-xx				
		mm inch		mm inch		mm inch		mm inch		mm inch	mm inch	mm inch	mm inch				
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/- .15 + .002/- .006	(Ref)		
MCF 52A	MCF 52A S	52.000 2.0472	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	22.0 .87	66 2.6	500 19.7	N/A	N/A	N/A	25,690 5,776	46,700 10,499
MCF 52A B	MCF 52A SB		Cylindrical														
MCF 52A X	MCF 52A SX																
MCF 52A BX	MCF 52A SBX																
MCFE 52A	MCFE 52A S	52.000 2.0472	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	22.0 .87	66 2.6	500 19.7	1 .04	18 0.71	24 .94	17,750 3,991	29,800 6,700
MCFE 52A SB	Cylindrical																
MCFE 52A SX																	
MCFE 52A SBX																	
MCFR 52A	MCFR 52A S	52.000 2.0472	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	22.0 .87	66 2.6	500 19.7	N/A	N/A	N/A	17,750 3,991	29,800 6,700
MCFR 52A B	MCFR 52A SB		Cylindrical														
MCFR 52A X	MCFR 52A SX																
MCFR 52A BX	MCFR 52A SBX																
MCFRE 52A	MCFRE 52A S	52.000 2.0472	+0/- .050 +0/- .002	24.000 .9449	+0/- .12 +0/- .005	20.000 .7874	+0/- .021 +0/- .0008	41 1.6	.80 .031	22.0 .87	66 2.6	500 19.7	1 .04	18 0.71	24 .94	17,750 3,991	29,800 6,700
MCFRE 52A SB	Cylindrical																
MCFRE 52A SX																	
MCFRE 52A SBX																	
MCF 62	MCF 62 S	62.000 2.4409	+0/- .050 +0/- .002	29.000 1.1417	+0/- .12 +0/- .005	24.000 .9449	+0/- .021 +0/- .0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	N/A	N/A	N/A	38,840 8,732	65,400 14,703
MCF 62 B	MCF 62 SB		Cylindrical														
MCF 62 X	MCF 62 SX																
MCF 62 BX	MCF 62 SBX																
MCFE 62	MCFE 62 S	62.000 2.4409	+0/- .050 +0/- .002	29.000 1.1417	+0/- .12 +0/- .005	24.000 .9449	+0/- .021 +0/- .0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	1 .04	22 0.87	28 .10	26,380 5,931	46,300 10,409
MCFE 62 SB	Cylindrical																
MCFE 62 SX																	
MCFE 62 SBX																	
MCFR 62	MCFR 62 S	62.000 2.4409	+0/- .050 +0/- .002	29.000 1.1417	+0/- .12 +0/- .005	24.000 .9449	+0/- .021 +0/- .0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	N/A	N/A	N/A	26,380 5,931	46,300 10,409
MCFR 62 B	MCFR 62 SB		Cylindrical														
MCFR 62 X	MCFR 62 SX																
MCFR 62 BX	MCFR 62 SBX																
MCFRE 62	MCFRE 62 S	62.000 2.4409	+0/- .050 +0/- .002	29.000 1.1417	+0/- .12 +0/- .005	24.000 .9449	+0/- .021 +0/- .0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	1 .04	22 0.87	28 .10	26,380 5,931	46,300 10,409
MCFRE 62 SB	Cylindrical																
MCFRE 62 SX																	
MCFRE 62 SBX																	

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

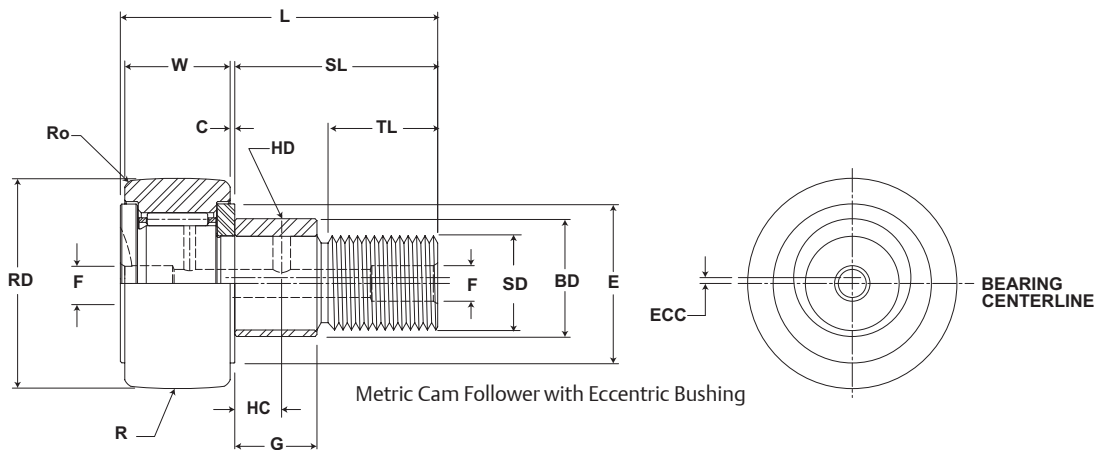
Inch dimensions for reference only.

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.

Metric CAMROL Bearings **McGILL®**

Cam Follower Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole Suffix MCF_xx B	Outer Corner	Min. Clamping Diameter						Bearing Weight
		mm inch	mm inch	mm inch	mm inch	mm inch	mm inch	Nom.	Tol.		Nm in-lb	RPM	kg lb
(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)						
MCF 52A	MCF 52A S	12 .472	4 .157	8 .31	N/A	1.5 .06	36 1.4	20.000 .7874	+.021/-0 +0.0008/- 0	M20x1.5	216 1,912	2,600	.45 .99
MCF 52A B	MCF 52A SB			-	10 .39								
MCF 52A X	MCF 52A SX			8 .31	N/A								
MCF 52A BX	MCF 52A SBX			-	10 .39								
MCFE 52A	MCFE 52A S	N/A	N/A	8 .31	N/A	1.5 .06	36 1.4	24.050 .9469	+0.025/-0 +0.0009/- 0	M20x1.5	216 1,912	2,600	.45 .99
	MCFE 52A SB			-	10 .39								
	MCFE 52A SX			8 .31	N/A								
	MCFE 52A SBX			-	10 .39								
MCFR 52A	MCFR 52A S	12 .472	4 .157	8 .31	N/A	1.5 .06	36 1.4	20.000 .7874	+.021/-0 +0.0008/- 0	M20x1.5	216 1,912	3,900	.45 .99
MCFR 52A B	MCFR 52A SB			-	10 .39								
MCFR 52A X	MCFR 52A SX			8 .31	N/A								
MCFR 52A BX	MCFR 52A SBX			-	10 .39								
MCFRE 52A	MCFRE 52A S	N/A	N/A	8 .31	N/A	1.5 .06	36 1.4	24.050 .9469	+0.025/-0 +0.0009/- 0	M20x1.5	216 1,912	3,900	.45 .99
	MCFRE 52A SB			-	10 .39								
	MCFRE 52A SX			8 .31	N/A								
	MCFRE 52A SBX			-	10 .39								
MCF 62	MCF 62 S	11 .433	4 .157	8 .31	N/A	2.0 .08	44 1.7	24.000 .9449	+.021/-0 +0.0008/- 0	M24x1.5	216 1,912	2,100	.81 1.79
MCF 62 B	MCF 62 SB			-	14 .55								
MCF 62 X	MCF 62 SX			8 .31	N/A								
MCF 62 BX	MCF 62 SBX			-	14 .55								
MCFE 62	MCFE 62 S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	28.050 .1043	+0.025/-0 +0.0009/- 0	M24x1.5	216 1,912	2,100	.81 1.79
	MCFE 62 SB			-	14 .55								
	MCFE 62 SX			8 .31	N/A								
	MCFE 62 SBX			-	14 .55								
MCFR 62	MCFR 62 S	11 .433	4 .157	8 .31	N/A	2.0 .08	63 2.5	24.000 .9449	+.021/-0 +0.0008/- 0	M24x1.5	216 1,912	3,100	.81 1.79
MCFR 62 B	MCFR 62 SB			-	14 .55								
MCFR 62 X	MCFR 62 SX			8 .31	N/A								
MCFR 62 BX	MCFR 62 SBX			-	14 .55								
MCFRE 62	MCFRE 62 S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	28.050 .1043	+0.025/-0 +0.0009/- 0	M24x1.5	216 1,912	3,100	.81 1.79
	MCFRE 62 SB			-	14 .55								
	MCFRE 62 SX			8 .31	N/A								
	MCFRE 62 SBX			-	14 .55								

McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

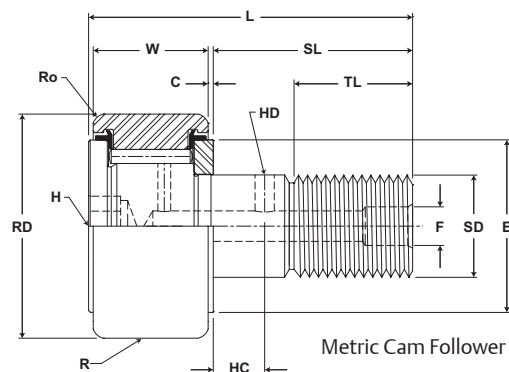
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical	Eccentric				
												Suffix MCF-xx-X	Base Modifier MCFE-xx				
		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch	mm inch				
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/-15 +0.02/-0.006	(Ref)	N/lb	N/lb
MCF 62A	MCF 62A S	62.000 2.4409	+0/-0.050 +0/-0.002	29.000 1.1417	+0/-0.12 +0/-0.005	24.000 .9449	+0/-0.021 +0/-0.0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	N/A	N/A	N/A	38,840 8,732	65,400 14,703
MCF 62A B	MCF 62A SB		Cylindrical														
MCF 62A X	MCF 62A SX																
MCF 62A BX	MCF 62A SBX																
MCFE 62A	MCFE 62A S	62.000 2.4409	+0/-0.050 +0/-0.002	29.000 1.1417	+0/-0.12 +0/-0.005	24.000 .9449	+0/-0.021 +0/-0.0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	1 .04	22 0.87	28 .10	26,380 5,931	46,300 10,409
MCFE 62A SB	Cylindrical																
MCFE 62A SX																	
MCFE 62A SBX																	
MCFR 62A	MCFR 62A S	62.000 2.4409	+0/-0.050 +0/-0.002	29.000 1.1417	+0/-0.12 +0/-0.005	24.000 .9449	+0/-0.021 +0/-0.0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	N/A	N/A	N/A	26,380 5,931	46,300 10,409
MCFR 62A B	MCFR 62A SB		Cylindrical														
MCFR 62A X	MCFR 62A SX																
MCFR 62A BX	MCFR 62A SBX																
MCFRE 62A	MCFRE 62A S	62.000 2.4409	+0/-0.050 +0/-0.002	29.000 1.1417	+0/-0.12 +0/-0.005	24.000 .9449	+0/-0.021 +0/-0.0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	1 .04	22 0.87	28 .10	26,380 5,931	46,300 10,409
MCFRE 62A SB	Cylindrical																
MCFRE 62A SX																	
MCFRE 62A SBX																	
MCF 72	MCF 72 S	72.000 2.8346	+0/-0.050 +0/-0.002	29.000 1.1417	+0/-0.12 +0/-0.005	24.000 .9449	+0/-0.021 +0/-0.0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	N/A	N/A	N/A	38,840 8,732	65,400 14,703
MCF 72 B	MCF 72 SB		Cylindrical														
MCF 72 X	MCF 72 SX																
MCF 72 BX	MCF 72 SBX																
MCFE 72	MCFE 72 S	72.000 2.8346	+0/-0.050 +0/-0.002	29.000 1.1417	+0/-0.12 +0/-0.005	24.000 .9449	+0/-0.021 +0/-0.0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	1 .04	22 0.87	28 .10	26,380 5,931	46,300 10,409
MCFE 72 SB	Cylindrical																
MCFE 72 SX																	
MCFE 72 SBX																	
MCFR 72	MCFR 72 S	72.000 2.8346	+0/-0.050 +0/-0.002	29.000 1.1417	+0/-0.12 +0/-0.005	24.000 .9449	+0/-0.021 +0/-0.0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	N/A	N/A	N/A	26,380 5,931	46,300 10,409
MCFR 72 B	MCFR 72 SB		Cylindrical														
MCFR 72 X	MCFR 72 SX																
MCFR 72 BX	MCFR 72 SBX																
MCFRE 72	MCFRE 72 S	72.000 2.8346	+0/-0.050 +0/-0.002	29.000 1.1417	+0/-0.12 +0/-0.005	24.000 .9449	+0/-0.021 +0/-0.0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	1 .04	22 0.87	28 .10	26,380 5,931	46,300 10,409
MCFRE 72 SB	Cylindrical																
MCFRE 72 SX																	
MCFRE 72 SBX																	

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

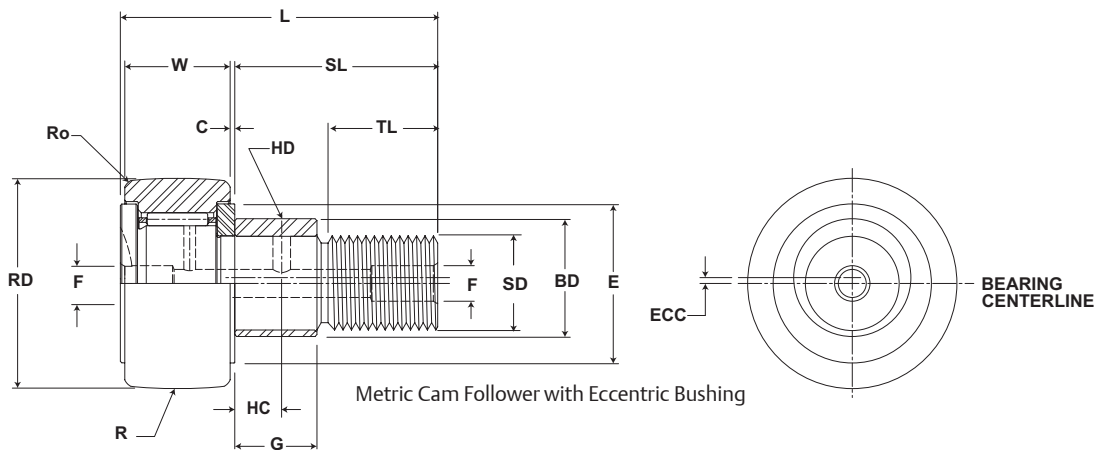
Inch dimensions for reference only.

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.

Metric CAMROL Bearings **McGILL®**

Cam Follower Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole	Outer Corner	Min. Clamping Diameter						Bearing Weight
					Suffix MCF_xx B			Nm in-lb	RPM		kg lb		
		mm inch	mm inch	mm inch	mm inch	mm inch	mm inch	Nom.	Tol.				
		(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)						
MCF 62A	MCF 62A S	12 .472	4 .157	8 .31	N/A	2.0 .08	63 2.5	24.000 .9449	+.021/-0 +.0008/- 0	M24x1.5	216 1,912	2,100	.81 1.79
MCF 62A B	MCF 62A SB			-	14 .55								
MCF 62A X	MCF 62A SX			8 .31	N/A								
MCF 62A BX	MCF 62A SBX			-	14 .55								
MCFE 62A	MCFE 62A S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	28.050 .1043	+0.025/-0 +0.0009/- 0	M24x1.5	216 1,912	2,100	.81 1.79
	MCFE 62A SB			-	14 .55								
	MCFE 62A SX			8 .31	N/A								
	MCFE 62A SBX			-	14 .55								
MCFR 62A	MCFR 62A S	12 .472	4 .157	8 .31	N/A	2.0 .08	63 2.5	24.000 .9449	+.021/-0 +.0008/- 0	M24x1.5	216 1,912	3,100	.81 1.79
MCFR 62A B	MCFR 62A SB			-	14 .55								
MCFR 62A X	MCFR 62A SX			8 .31	N/A								
MCFR 62A BX	MCFR 62A SBX			-	14 .55								
MCFRE 62A	MCFRE 62A S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	28.050 .1043	+0.025/-0 +0.0009/- 0	M24x1.5	216 1,912	3,100	.81 1.79
	MCFRE 62A SB			-	14 .55								
	MCFRE 62A SX			8 .31	N/A								
	MCFRE 62A SBX			-	14 .55								
MCF 72	MCF 72 S	12 .472	4 .157	8 .31	N/A	2.0 .08	63 2.5	24.000 .9449	+.021/-0 +.0008/- 0	M24x1.5	216 1,912	2,100	1.04 2.29
MCF 72 B	MCF 72 SB			-	14 .55								
MCF 72 X	MCF 72 SX			8 .31	N/A								
MCF 72 BX	MCF 72 SBX			-	14 .55								
MCFE 72	MCFE 72 S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	28.050 .1043	+0.025/-0 +0.0009/- 0	M24x1.5	216 1,912	2,100	1.04 2.29
	MCFE 72 SB			-	14 .55								
	MCFE 72 SX			8 .31	N/A								
	MCFE 72 SBX			-	14 .55								
MCFR 72	MCFR 72 S	12 .472	4 .157	8 .31	N/A	2.0 .08	63 2.5	24.000 .9449	+.021/-0 +.0008/- 0	M24x1.5	216 1,912	3,100	1.04 2.29
MCFR 72 B	MCFR 72 SB			-	14 .55								
MCFR 72 X	MCFR 72 SX			8 .31	N/A								
MCFR 72 BX	MCFR 72 SBX			-	14 .55								
MCFRE 72	MCFRE 72 S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	28.050 .1043	+0.025/-0 +0.0009/- 0	M24x1.5	216 1,912	3,100	1.04 2.29
	MCFRE 72 SB			-	14 .55								
	MCFRE 72 SX			8 .31	N/A								
	MCFRE 72 SBX			-	14 .55								

McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

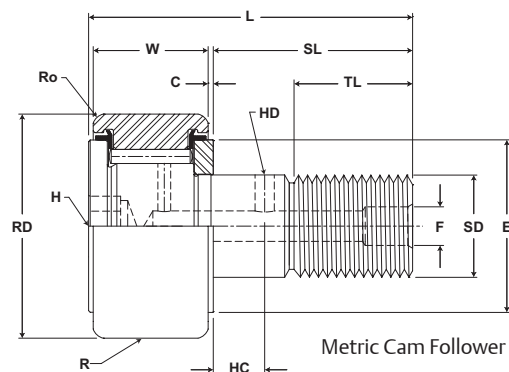
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical	Eccentric				
												Suffix MCF-xx-X	Base Modifier MCFE-xx				
		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch					
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/- .15 + .002/- .006	(Ref)	N/lb	N/lb
MCF 72A	MCF 72A S	72.000 2.8346	+0/- .050 +0/- .002	29.000 1.1417	+0/- .12 +0/- .005	24.000 .9449	+0/- .021 +0/- .0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	N/A	N/A	N/A	38,840 8,732	65,400 14,703
MCF 72A B	MCF 72A SB																
MCF 72A X	MCF 72A SX		+0/- .013 +0/- .0005									Cylindrical					
MCF 72A BX	MCF 72A SBX																
MCFE 72A	MCFE 72A S	72.000 2.8346	+0/- .050 +0/- .002	29.000 1.1417	+0/- .12 +0/- .005	24.000 .9449	+0/- .021 +0/- .0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	1 .04	22 0.87	28 .10		
MCFE 72A SB																	
MCFE 72A SX			+0/- .013 +0/- .0005									Cylindrical					
MCFE 72A SBX																	
MCFR 72A	MCFR 72A S	72.000 2.8346	+0/- .050 +0/- .002	29.000 1.1417	+0/- .12 +0/- .005	24.000 .9449	+0/- .021 +0/- .0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	N/A	N/A	N/A	26,380 5,931	46,300 10,409
MCFR 72A B	MCFR 72A SB																
MCFR 72A X	MCFR 72A SX		+0/- .013 +0/- .0005									Cylindrical					
MCFR 72A BX	MCFR 72A SBX																
MCFRE 72A	MCFRE 72A S	72.000 2.8346	+0/- .050 +0/- .002	29.000 1.1417	+0/- .12 +0/- .005	24.000 .9449	+0/- .021 +0/- .0008	50 1.9	.80 .031	25.0 .98	80 3.1	500 19.7	1 .04	22 0.87	28 .10		
MCFRE 72A SB																	
MCFRE 72A SX			+0/- .013 +0/- .0005									Cylindrical					
MCFRE 72A SBX																	
MCF 80	MCF 80 S	80.000 3.1496	+0/- .050 +0/- .002	35.000 1.3780	+0/- .12 +0/- .005	30.000 1.1811	+0/- .021 +0/- .0008	63 2.5	1.00 .039	32.0 1.26	100 3.9	500 19.7	N/A	N/A	N/A	64,140 14,420	102,300 22,999
MCF 80 B	MCF 80 SB																
MCF 80 X	MCF 80 SX		+0/- .015 +0/- .0006									Cylindrical					
MCF 80 BX	MCF 80 SBX																
MCFE 80	MCFE 80 S	80.000 3.1496	+0/- .050 +0/- .002	35.000 1.3780	+0/- .12 +0/- .005	30.000 1.1811	+0/- .021 +0/- .0008	63 2.5	1.00 .039	32.0 1.26	100 3.9	500 19.7	1.5 .06	29 1.14	35 .38		
MCFE 80 SB																	
MCFE 80 SX			+0/- .015 +0/- .0006									Cylindrical					
MCFE 80 SBX																	
MCFR 80A	MCFR 80A S	80.000 3.1496	+0/- .050 +0/- .002	35.000 1.3780	+0/- .12 +0/- .005	30.000 1.1811	+0/- .021 +0/- .0008	63 2.5	1.00 .039	32.0 1.26	100 3.9	500 19.7	N/A	N/A	N/A	46,680 10,495	87,600 19,694
MCFR 80A B	MCFR 80A SB																
MCFR 80A X	MCFR 80A SX		+0/- .015 +0/- .0006									Cylindrical					
MCFR 80A BX	MCFR 80A SBX																
MCFRE 80A	MCFRE 80A S	80.000 3.1496	+0/- .050 +0/- .002	35.000 1.3780	+0/- .12 +0/- .005	30.000 1.1811	+0/- .021 +0/- .0008	63 2.5	1.00 .039	32.0 1.26	100 3.9	500 19.7	1.5 .06	29 1.14	35 .38		
MCFRE 80A SB																	
MCFRE 80A SX			+0/- .015 +0/- .0006									Cylindrical					
MCFRE 80A SBX																	

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

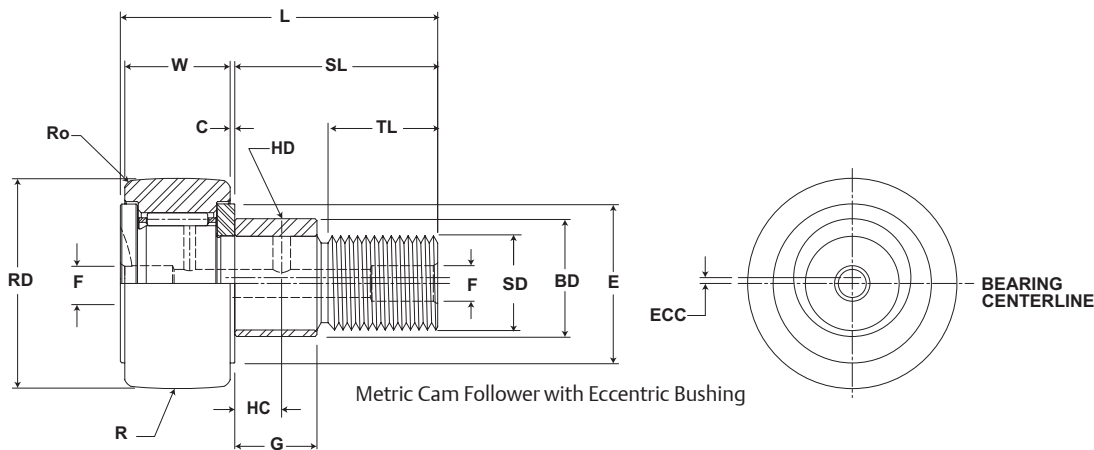
Inch dimensions for reference only.

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Metric CAMROL Bearings **McGILL®**

Cam Follower Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT	
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole	Outer Corner	Min. Clamping Diameter						Bearing Weight	
					Suffix MCF_xx B			kg lb						
		mm inch		mm inch		mm inch		mm inch						
		(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.			Nm in-lb	RPM	kg lb
MCF 72A	MCF 72A S	11 .433	4 .157	8 .31	N/A	2.0 .08	63 2.5	24.000 .9449	+0.021/-0 +0.0008/- 0	M24x1.5	216 1,912	2,100	1.04 2.29	
MCF 72A B	MCF 72A SB			-	14 .55									
MCF 72A X	MCF 72A SX			8 .31	N/A									
MCF 72A BX	MCF 72A SBX			-	14 .55									
MCFE 72A	MCFE 72A S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	28.050 .1043	+0.025/-0 +0.0009/- 0	M24x1.5	216 1,912	2,100	1.04 2.29	
	MCFE 72A SB			-	14 .55									
	MCFE 72A SX			8 .31	N/A									
	MCFE 72A SBX			-	14 .55									
MCFR 72A	MCFR 72A S	11 .433	4 .157	8 .31	N/A	2.0 .08	63 2.5	24.000 .9449	+0.021/-0 +0.0008/- 0	M24x1.5	216 1,912	3,100	1.04 2.29	
MCFR 72A B	MCFR 72A SB			-	14 .55									
MCFR 72A X	MCFR 72A SX			8 .31	N/A									
MCFR 72A BX	MCFR 72A SBX			-	14 .55									
MCFRE 72A	MCFRE 72A S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	28.050 .1043	+0.025/-0 +0.0009/- 0	M24x1.5	216 1,912	3,100	1.04 2.29	
	MCFRE 72A SB			-	14 .55									
	MCFRE 72A SX			8 .31	N/A									
	MCFRE 72A SBX			-	14 .55									
MCF 80	MCF 80 S	15 .591	4 .157	8 .31	N/A	2.0 .08	63 2.5	30.000 .1811	+0.021/-0 +0.0008/- 0	M30x1.5	441 3,903	1,500	1.64 3.62	
MCF 80 B	MCF 80 SB			-	14 .55									
MCF 80 X	MCF 80 SX			8 .31	N/A									
MCF 80 BX	MCF 80 SBX			-	14 .55									
MCFE 80	MCFE 80 S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	35.050 .3799	+0.025/-0 +0.0009/- 0	M30x1.5	441 3,903	2,200	1.64 3.62	
	MCFE 80 SB			-	14 .55									
	MCFE 80 SX			8 .31	N/A									
	MCFE 80 SBX			-	14 .55									
MCFR 80A	MCFR 80A S	15 .591	4 .157	8 .31	N/A	2.0 .08	63 2.5	30.000 .1811	+0.021/-0 +0.0008/- 0	M30x1.5	441 3,903	2,200	1.64 3.62	
MCFR 80A B	MCFR 80A SB			-	14 .55									
MCFR 80A X	MCFR 80A SX			8 .31	N/A									
MCFR 80A BX	MCFR 80A SBX			-	14 .55									
MCFRE 80A	MCFRE 80A S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	35.050 .3799	+0.025/-0 +0.0009/- 0	M30x1.5	441 3,903	2,200	1.64 3.62	
	MCFRE 80A SB			-	14 .55									
	MCFRE 80A SX			8 .31	N/A									
	MCFRE 80A SBX			-	14 .55									

McGILL® Metric CAMROL Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement / Retained (Caged) Needle Roller

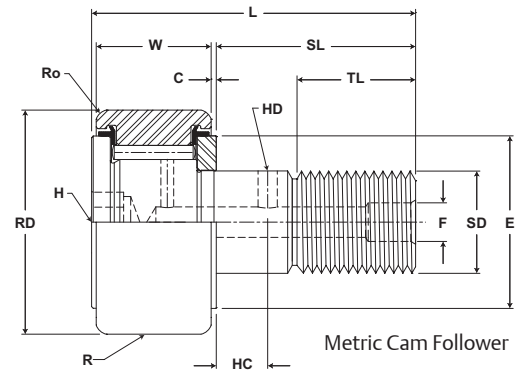
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



MCF, MCFE

Part No.		RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
W/O Seals	With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Cylindrical Suffix MCF-xx-X	Eccentric Base Modifier MCFE-xx				
		mm inch		mm inch		mm inch		mm inch		mm inch		mm inch	mm inch				
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/-15 +0.02/-0.06	(Ref)		
MCF 80	MCF 80 S	85,000 3.3465	+0/-0.050 +0/-0.002	35.000 +0/-0.12 1.3780 +0/-0.005		30.000 +0/-0.021 1.1811 +0/-0.0008	63 2.5	1.00 .039	32.0 1.26	100 3.9		500 19.7	N/A	N/A	N/A	64,140 14,420	102,300 22,999
MCF 80 B	MCF 80 SB		Cylindrical														
MCF 80 X	MCF 80 SX																
MCF 80 BX	MCF 80 SBX																
MCFE 80	MCFE 80 S	85,000 3.3465	+0/-0.050 +0/-0.002	35.000 +0/-0.12 1.3780 +0/-0.005		30.000 +0/-0.021 1.1811 +0/-0.0008	63 2.5	1.00 .039	32.0 1.26	100 3.9		500 19.7	1.5 .06	29 1.14	35 .38		
	MCFE 80 SB		Cylindrical														
	MCFE 80 SX																
	MCFE 80 SBX																
MCFR 85	MCFR 85 S	85,000 3.3465	+0/-0.050 +0/-0.002	35.000 +0/-0.12 1.3780 +0/-0.005		30.000 +0/-0.021 1.1811 +0/-0.0008	63 2.5	1.00 .039	32.0 1.26	100 3.9		500 19.7	N/A	N/A	N/A	46,680 10,495	87,600 19,694
MCFR 85 B	MCFR 85 SB		Cylindrical														
MCFR 85 X	MCFR 85 SX																
MCFR 85 BX	MCFR 85 SBX																
MCFRE 85	MCFRE 85 S	85,000 3.3465	+0/-0.050 +0/-0.002	35.000 +0/-0.12 1.3780 +0/-0.005		30.000 +0/-0.021 1.1811 +0/-0.0008	63 2.5	1.00 .039	32.0 1.26	100 3.9		500 19.7	1.5 .06	29 1.14	35 .38		
MCFRE 85 B	MCFRE 85 SB		Cylindrical														
MCFRE 85 X	MCFRE 85 SX																
MCFRE 85 BX	MCFRE 85 SBX																
MCF 90	MCF 90 S	90,000 3.5433	+0/-0.050 +0/-0.002	35.000 +0/-0.12 1.3780 +0/-0.005		30.000 +0/-0.021 1.1811 +0/-0.0008	63 2.5	1.00 .039	32.0 1.26	100 3.9		500 19.7	N/A	N/A	N/A	64,140 14,420	102,300 22,999
MCF 90 B	MCF 90 SB		Cylindrical														
MCF 90 X	MCF 90 SX																
MCF 90 BX	MCF 90 SBX																
MCFE 90	MCFE 90 S	90,000 3.5433	+0/-0.050 +0/-0.002	35.000 +0/-0.12 1.3780 +0/-0.005		30.000 +0/-0.021 1.1811 +0/-0.0008	63 2.5	1.00 .039	32.0 1.26	100 3.9		500 19.7	1.5 .06	29 1.14	35 .38		
	MCFE 90 SB		Cylindrical														
	MCFE 90 SX																
	MCFE 90 SBX																
MCFR 90	MCFR 90 S	90,000 3.5433	+0/-0.050 +0/-0.002	35.000 +0/-0.12 1.3780 +0/-0.005		30.000 +0/-0.021 1.1811 +0/-0.0008	63 2.5	1.00 .039	32.0 1.26	100 3.9		500 19.7	N/A	N/A	N/A	46,680 10,495	87,600 19,694
MCFR 90 B	MCFR 90 SB		Cylindrical														
MCFR 90 X	MCFR 90 SX																
MCFR 90 BX	MCFR 90 SBX																
MCFRE 90	MCFRE 90 S	90,000 3.5433	+0/-0.050 +0/-0.002	35.000 +0/-0.12 1.3780 +0/-0.005		30.000 +0/-0.021 1.1811 +0/-0.0008	63 2.5	1.00 .039	32.0 1.26	100 3.9		500 19.7	1.5 .06	29 1.14	35 .38		
	MCFRE 90 SB		Cylindrical														
	MCFRE 90 SX																
	MCFRE 90 SBX																

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside diameter, add suffix "X". Example - MCFR-35-X or MCF-35-SX.

2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

3. Static load rating is based on stud strength or on internal rolling element load distribution stresses.

4. Dynamic load should not exceed 50% of Dynamic Rating as a track roller.

5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication is required when operating at higher speeds. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

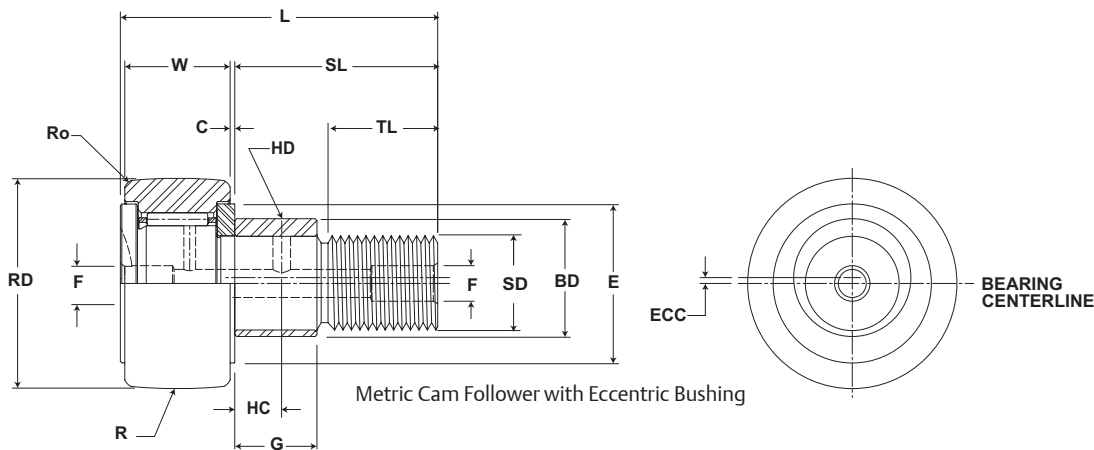
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Metric CAMROL Bearings **McGILL**

Cam Follower Bearings



MCF, MCFE

Part No.		HC	HD	F	H	Ro	E	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed (Grease)	WT
W/O Seals	With LUBRI-DISC Seals	Hole Center	Radial Lub. Hole Diameter	Lub. Hole Dia	Hex Hole Suffix MCF_xx B	Outer Corner	Min. Clamping Diameter						Bearing Weight
		mm inch	mm inch	mm inch	mm inch	mm inch	mm inch	Nom.	Tol.		Nm in-lb	RPM	kg lb
(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)						
MCF 80	MCF 80 S	15 .591	4 .157	8 .31	N/A	2.0 .08	63 2.5	30.000 .1811	+.021/-0 +.0008/- 0	M30x1.5	441 3,903	1,500	1.64 3.62
MCF 80 B	MCF 80 SB			-	14 .55								
MCF 80 X	MCF 80 SX			8 .31	N/A								
MCF 80 BX	MCF 80 SBX			-	14 .55								
MCFE 80	MCFE 80 S	15 .591	4 .157	8 .31	N/A	2.0 .08	63 2.5	35.050 .3799	+.0025/-0 +0.0009/- 0	M30x1.5	441 3,903	1,500	1.64 3.62
MCFE 80 SB	MCFE 80 SB			-	14 .55								
MCFE 80 SX	MCFE 80 SX			8 .31	N/A								
MCFE 80 SBX	MCFE 80 SBX			-	14 .55								
MCFR 85	MCFR 85 S	15 .591	4 .157	8 .31	N/A	2.0 .08	63 2.5	30.000 .1811	+.021/-0 +.0008/- 0	M30x1.5	441 3,903	2,200	1.81 3.99
MCFR 85 B	MCFR 85 SB			-	14 .55								
MCFR 85 X	MCFR 85 SX			8 .31	N/A								
MCFR 85 BX	MCFR 85 SBX			-	14 .55								
MCFRE 85	MCFRE 85 S	N/A	N/A	8 .31	N/A	2.0 .08	63 2.5	35.050 .3799	+.0025/-0 +0.0009/- 0	M30x1.5	441 3,903	2,200	1.81 3.99
MCFRE 85 B	MCFRE 85 SB			-	14 .55								
MCFRE 85 X	MCFRE 85 SX			8 .31	N/A								
MCFRE 85 BX	MCFRE 85 SBX			-	14 .55								
MCF 90	MCF 90 S	15 .591	4 .157	8 .31	N/A	2.0 .08	68 2.7	30.000 .1811	+.021/-0 +.0008/- 0	M30x1.5	441 3,903	1,500	1.99 4.39
MCF 90 B	MCF 90 SB			-	14 .55								
MCF 90 X	MCF 90 SX			8 .31	N/A								
MCF 90 BX	MCF 90 SBX			-	14 .55								
MCFE 90	MCFE 90 S	15 .591	4 .157	8 .31	N/A	2.0 .08	68 2.7	35.050 .3799	+.0025/-0 +0.0009/- 0	M30x1.5	441 3,903	1,500	1.99 4.39
MCFE 90 SB	MCFE 90 SB			-	14 .55								
MCFE 90 SX	MCFE 90 SX			8 .31	N/A								
MCFE 90 SBX	MCFE 90 SBX			-	14 .55								
MCFR 90	MCFR 90 S	15 .591	4 .157	8 .31	N/A	2.0 .08	68 2.7	30.000 .1811	+.021/-0 +.0008/- 0	M30x1.5	441 3,903	2,200	1.99 4.39
MCFR 90 B	MCFR 90 SB			-	14 .55								
MCFR 90 X	MCFR 90 SX			8 .31	N/A								
MCFR 90 BX	MCFR 90 SBX			-	14 .55								
MCFRE 90	MCFRE 90 S	N/A	N/A	8 .31	N/A	2.0 .08	68 2.7	35.050 .3799	+.0025/-0 +0.0009/- 0	M30x1.5	441 3,903	2,200	1.99 4.39
MCFRE 90 SB	MCFRE 90 SB			-	14 .55								
MCFRE 90 SX	MCFRE 90 SX			8 .31	N/A								
MCFRE 90 SBX	MCFRE 90 SBX			-	14 .55								