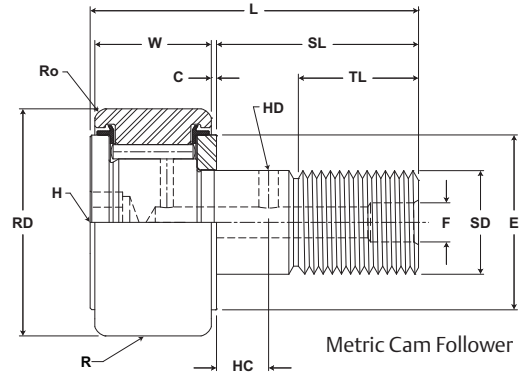


# MCGILL® Metric CAMROL Bearings



- 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

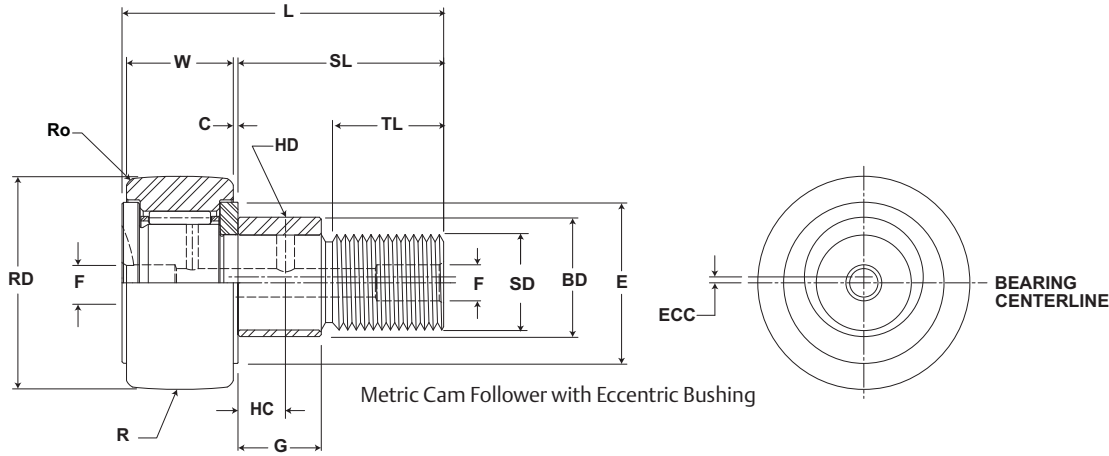


## MCF, MCFE

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	mm inch					
		Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+05/-15 +0.02/-0.06	(Ref)			
MCFR 13	MCFR 13 S	13.000 .5118	+0/-0.050 +0/-0.002	9.000 0/-0.12 .3543 +0/-0.005	5.000 +0/-0.012 .1969 +0/-0.0005	13	.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																	
MCFR 13 X	MCFR 13 SX																	
MCFR 13 BX	MCFR 13 SBX																	
MCF 16	MCF 16 S	16.000 .6299	+0/-0.050 +0/-0.002	11.000 0/-0.12 .4331 +0/-0.005	6.000 +0/-0.012 .2362 +0/-0.0005	16	.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																	
MCF 16 X	MCF 16 SX																	
MCF 16 BX	MCF 16 SBX																	
MCFE 16	MCFE 16 S	16.000 .6299	+0/-0.050 +0/-0.002	11.000 0/-0.12 .4331 +0/-0.005	6.000 +0/-0.012 .2362 +0/-0.0005	16	.60	.024	9.0	.35	28	1.1	500 19.7	0.5 .02	7 0.27	9 .35	3,430 771	2,350 528
MCFR 16 B	MCFR 16 SB																	
MCFR 16 X	MCFR 16 SX																	
MCFR 16 BX	MCFR 16 SBX																	
MCFRE 16	MCFRE 16 S	16.000 .6299	+0/-0.050 +0/-0.002	11.000 0/-0.12 .4331 +0/-0.005	6.000 +0/-0.012 .2362 +0/-0.0005	16	.60	.024	9.0	.35	28	1.1	500 19.7	0.5 .02	7 0.27	9 .35	3,430 771	2,350 528
MCFR 16 B	MCFR 16 SB																	
MCFR 16 X	MCFR 16 SX																	
MCFR 16 BX	MCFR 16 SBX																	
MCF 19	MCF 19 S	19.000 .7480	+0/-0.050 +0/-0.002	11.000 +0/-0.12 .4331 +0/-0.005	8.000 +0/-0.015 .3150 +0/-0.0006	20	.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																	
MCF 19 X	MCF 19 SX																	
MCF 19 BX	MCF 19 SBX																	
MCFE 19	MCFE 19 S	19.000 .7480	+0/-0.050 +0/-0.002	11.000 +0/-0.12 .4331 +0/-0.005	8.000 +0/-0.015 .3150 +0/-0.0006	20	.60	.024	11.0	.43	32	1.3	500 19.7	0.5 .02	9 0.35	11 .43	6,670 1,500	5,100 1,147
MCFR 19 B	MCFR 19 SB																	
MCFR 19 X	MCFR 19 SX																	
MCFR 19 BX	MCFR 19 SBX																	
MCFRE 19	MCFRE 19 S	19.000 .7480	+0/-0.050 +0/-0.002	11.000 +0/-0.12 .4331 +0/-0.005	8.000 +0/-0.015 .3150 +0/-0.0006	20	.60	.024	11.0	.43	32	1.3	500 19.7	0.5 .02	9 0.35	11 .43	3,730 839	4,140 931
MCFR 19 B	MCFR 19 SB																	
MCFR 19 X	MCFR 19 SX																	
MCFR 19 BX	MCFR 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.



## 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						
		(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
MCFR 13	MCFR 13 S	-	-	3.1 .12	N/A			5.000	+0.012/-0	M5x0.8	2.2 19	20,000	.01 .02
MCFR 13 B	MCFR 13 SB	-	-	-	3.1 .12	.3	9	5.000	+0.012/-0				
MCFR 13 X	MCFR 13 SX	-	-	3.1 .12	N/A	.01	.4	.1969	+0.0005/-0				
MCFR 13 BX	MCFR 13 SBX	-	-	-	3.1 .12								
MCF 16	MCF 16 S	-	-	4 .16	N/A			6.000	+0.012/-0	M6x1	3 27	13,000	.02 .04
MCF 16 B	MCF 16 SB	-	-	-	4 .16	.3	11	6.000	+0.012/-0				
MCF 16 X	MCF 16 SX	-	-	4 .16	N/A	.01	.4	.2362	+0.0005/-0				
MCF 16 BX	MCF 16 SBX	-	-	-	4 .16								
MCFE 16	MCFE 16 S	-	-	4 .16	N/A			11.050	+0.025/-0	M6x1	3 27	13,000	.02 .04
	MCFE 16 SB	-	-	-	4 .16	.3	11	11.050	+0.0009/-0				
	MCFE 16 SX	-	-	4 .16	N/A	.01	.4	.4350	+0.0009/-0				
	MCFE 16 SBX	-	-	-	4 .16								
MCFR 16	MCFR 16 S	-	-	4 .16	N/A			6.000	+0.012/-0	M6x1	3 27	19,500	.02 .04
MCFR 16 B	MCFR 16 SB	-	-	-	4 .16	.3	11	6.000	+0.012/-0				
MCFR 16 X	MCFR 16 SX	-	-	4 .16	N/A	.01	.4	.2362	+0.0005/-0				
MCFR 16 BX	MCFR 16 SBX	-	-	-	4 .16								
MCFRE 16	MCFRE 16 S	-	-	4 .16	N/A			11.050	+0.012/-0	M6x1	3 27	19,500	.02 .04
	MCFRE 16 SB	-	-	-	4 .16	.3	11	11.050	+0.012/-0				
	MCFRE 16 SX	-	-	4 .16	N/A	.01	.4	.4350	+0.0005/-0				
	MCFRE 16 SBX	-	-	-	4 .16								
MCF 19	MCF 19 S	-	-	4 .16	N/A			8.000	+0.015/-0	M8x1.25	8 71	10,500	.03 .07
MCF 19 B	MCF 19 SB	-	-	-	4 .16	.3	13	8.000	+0.015/-0				
MCF 19 X	MCF 19 SX	-	-	4 .16	N/A	.01	.5	.3150	+0.0006/-0				
MCF 19 BX	MCF 19 SBX	-	-	-	4 .16								
MCFE 19	MCFE 19 S	-	-	4 .16	N/A			13.050	+0.025/-0	M8x1.25	8 71	10,500	.03 .07
	MCFE 19 SB	-	-	-	4 .16	.3	13	13.050	+0.0009/-0				
	MCFE 19 SX	-	-	4 .16	N/A	.01	.5	.5138	+0.0009/-0				
	MCFE 19 SBX	-	-	-	4 .16								
MCFR 19	MCFR 19 S	-	-	4 .16	N/A			8.000	+0.015/-0	M8x1.25	8 71	15,500	.03 .07
MCFR 19 B	MCFR 19 SB	-	-	-	4 .16	.3	13	8.000	+0.015/-0				
MCFR 19 X	MCFR 19 SX	-	-	4 .16	N/A	.01	.5	.3150	+0.0006/-0				
MCFR 19 BX	MCFR 19 SBX	-	-	-	4 .16								
MCFRE 19	MCFRE 19 S	-	-	4 .16	N/A			13.050	+0.015/-0	M8x1.25	8 71	15,500	.03 .07
	MCFRE 19 SB	-	-	-	4 .16	.3	13	13.050	+0.015/-0				
	MCFRE 19 SX	-	-	4 .16	N/A	.01	.5	.5138	+0.0006/-0				
	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.