



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

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

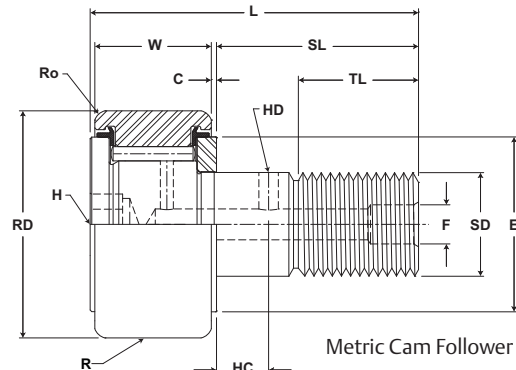
Bearing Material: Bearing Quality Steel

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 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																
MCF 22 X	MCF 22 SX		+0/- .009 +0/- .0004									Cylindrical					
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 B	MCFE 22 SB																
MCFE 22 X	MCFE 22 SX		+0/- .009 +0/- .0004									Cylindrical					
MCFE 22 BX	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	5,200 1,169	6,050 1,360
MCFR 22 B	MCFR 22 SB																
MCFR 22 X	MCFR 22 SX		+0/- .009 +0/- .0004									Cylindrical					
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 B	MCFRE 22 SB																
MCFRE 22 X	MCFRE 22 SX		+0/- .009 +0/- .0004									Cylindrical					
MCFRE 22 BX	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																
MCF 22A X	MCF 22A SX		+0/- .009 +0/- .0004									Cylindrical					
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	7,850 1,765	10,400 2,338
MCFE 22A B	MCFE 22A SB																
MCFE 22A X	MCFE 22A SX		+0/- .009 +0/- .0004									Cylindrical					
MCFE 22A BX	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																
MCFR 22A X	MCFR 22A SX		+0/- .009 +0/- .0004									Cylindrical					
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 B	MCFRE 22A SB																
MCFRE 22A X	MCFRE 22A SX		+0/- .009 +0/- .0004									Cylindrical					
MCFRE 22A BX	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.

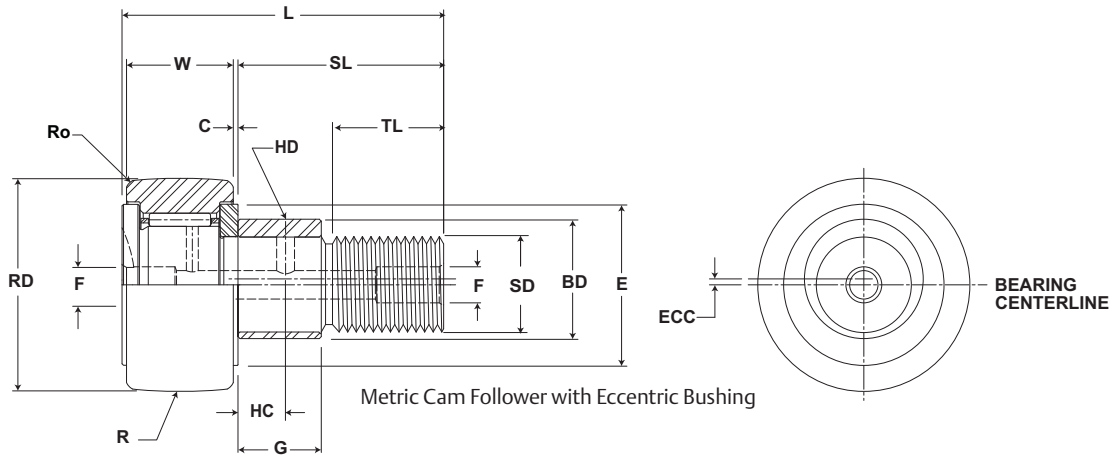
5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication 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®**



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		mm inch			Nm in-lb	RPM	kg 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								