





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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				\$\$\$	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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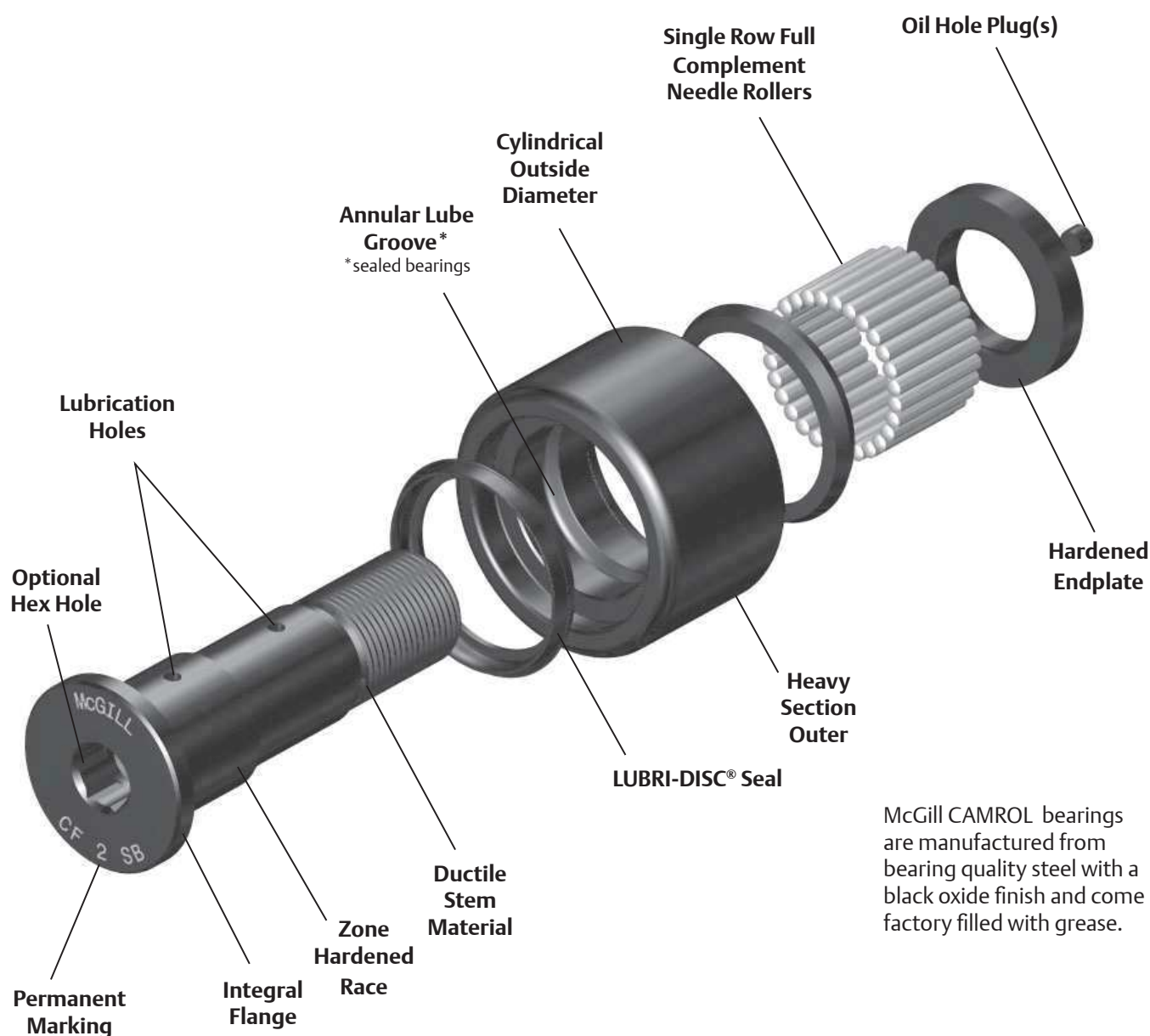


Poor ← → **Best**

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

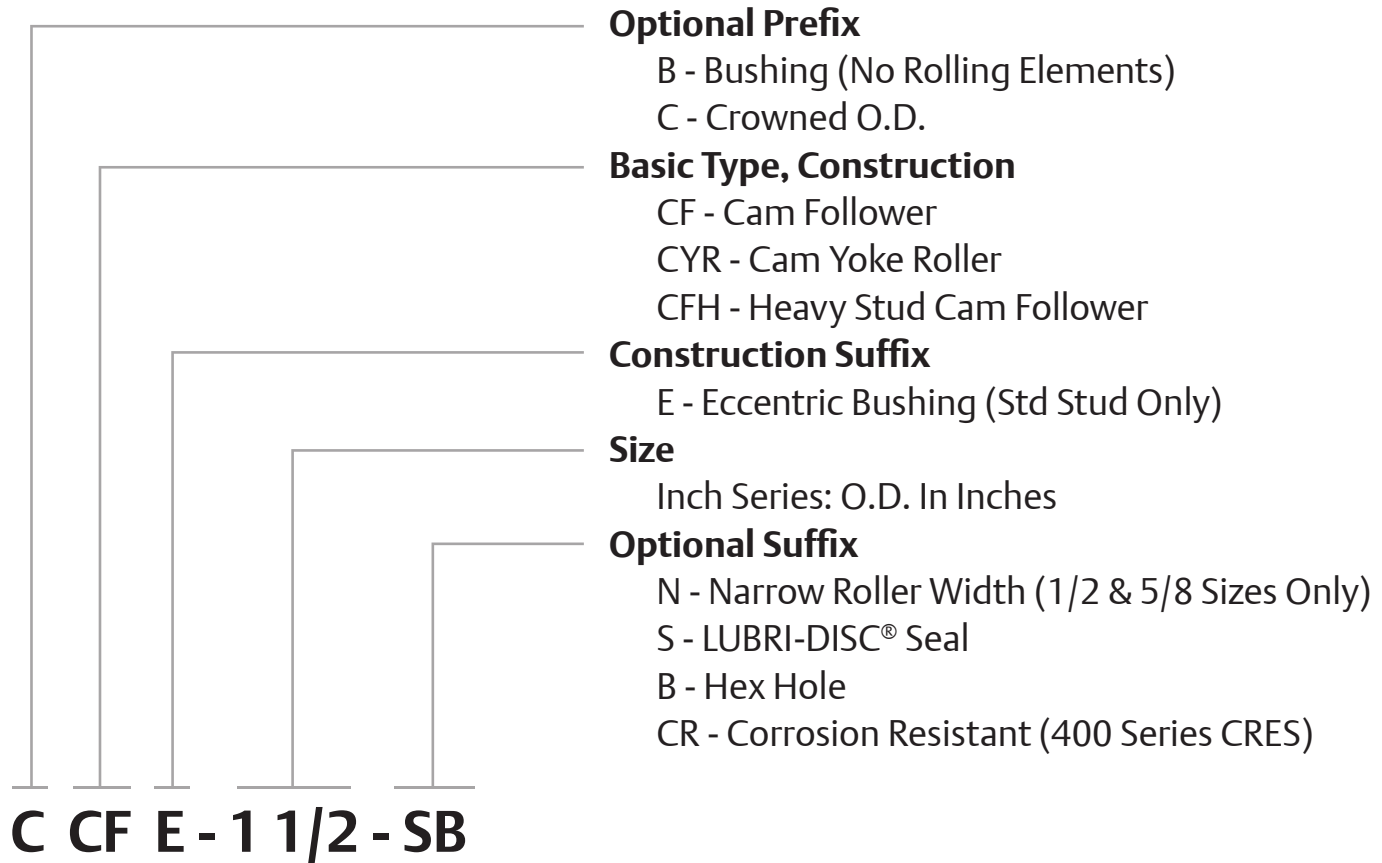
McGill Inch Cam Followers

McGill CAMROL bearings are full complement needle bearings feature black oxide treated bearing steel, available in two basic mounting styles for use in 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 relubrication. In addition to the seal option these bearings are available with several dimensional choices and combinations to provide a specific solution for the application. Within the following section you can learn more about these features and how they can be applied to your application.

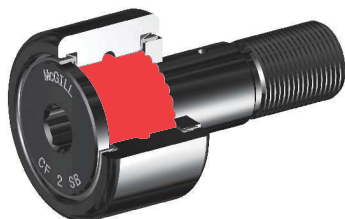


McGill CAMROL bearings are manufactured from bearing quality steel with a black oxide finish and come factory filled with grease.

Cam Follower Inch Nomenclature

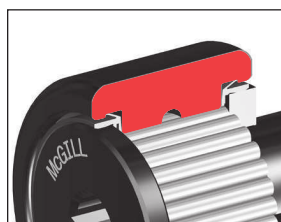


Features and Benefits



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.



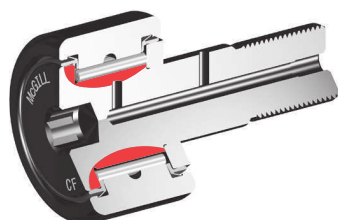
Heavy Section Outer

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.

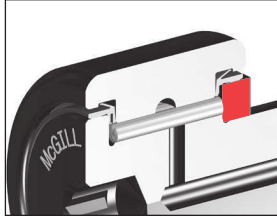


Zone Hardened Raceways

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

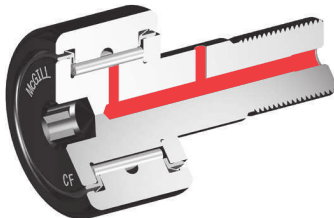


Hardened Endplate

Similar to the flange, the endplate must provide a seal surface for the LUBRI-DISC seal and resist wear from incidental contact with the outer or rollers. The hardened and ground endplate provides a sealing surface with LUBRI-DISC® seal option.

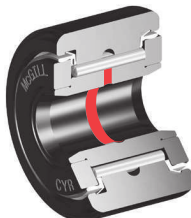
Factory Grease Fill

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

Depending on mounting option, McGill stud type CAMROL bearings may include a lubrication hole to accept a standard drive fitting or an included oil hole plug. The oil hole plug is recommended for closing unused holes to help protect against bearing contamination or lubrication loss.



Yoke Roller Lubrication Hole with Annular groove

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 axial lubrication path to supply bearing. An annular groove in the inner ring bore helps direct lubricant to the hole, making alignment of the shaft and the inner ring holes less critical.



Oil Hole Plug (s)

All McGill stud type Cam followers include 1-2 (depending on # of holes) oil hole plugs to help provide proper lubrication path to the rolling elements and prevent contamination from entering the bearing through an unused oil hole.

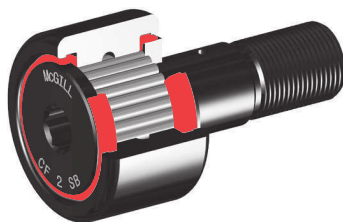
McGILL[®] Inch Cam Follower Bearings

Options



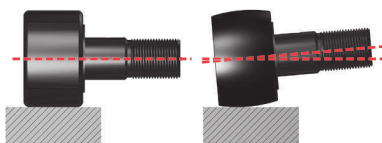
Black Oxide Finish

Bearings have a black oxide finish on all external surfaces.



LUBRI-DISC[®] Seal

The CAMROL standard for seals, the LUBRI-DISC seal helps keep contaminants out and lubrication in the bearing, 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 reduces friction resulting in lower operating temperatures which can extend grease life and allowing for higher operating speeds. The seal also includes vents to help prevent seal blowout during relubrication, while the outer raceway is machined with a reservoir for additional lubricant capacity. The LUBRI-DISC seal option has a good balance of sealing, lubricant capacity, 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 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 also helps 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.



Heavy Stud Diameter

The increase stem diameter of heavy stud cam followers increases static load capacity of the bearing due to the larger stud diameter. The increase in diameter reduces the amount of deflection that can occur when cam followers are radial loaded. The resultant increase allows a maximum recommended loading of 50% BDR.

* On Heavy-Stud Type Bearings, CFH inch series only

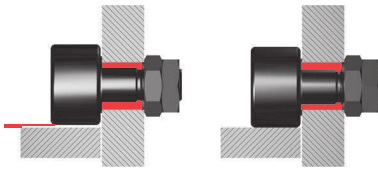


Options continued



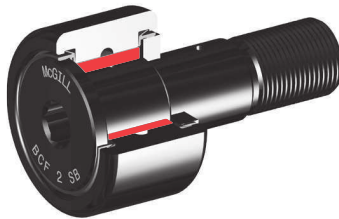
Hex Hole (Broached)

The hex hole can aid in the installation and removal of stud type cam followers by increasing the holding power over 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.



Bushing Type

Non-Metallic bushing provides load support with a sliding motion that reduces the need for bearing lubrication for non-food applications where relubrication is not convenient or grease contamination in the process is not acceptable. Max allowable continuous operating temperature up to 200°F. Bushing CAMROL bearings are intended to be used in the self lubricated mode. However, continuous feed oil lubrication can be used to provide reduced wear rates. Grease lubrication should not be used.



Corrosion Resistance

McGill CAMROL Cam Followers are available in 400 series corrosion resistant 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. Please see page K-3 for more information and availability.

McGILL® Inch Cam Follower Bearings

Additional Options



BHT

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 stud 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® Inch Cam Follower Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Non-Metallic Bushing

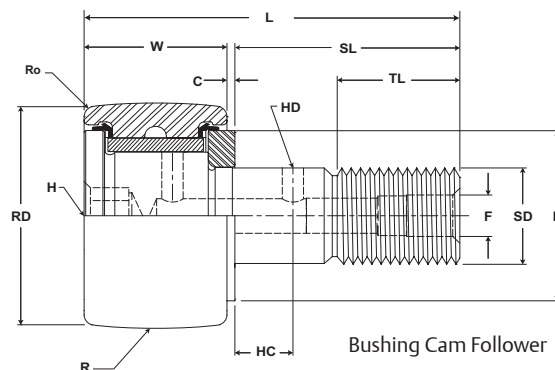
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: None - Self Lubricating Bushing

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



BCF, BCFE

Part No.	RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Crown Prefix BCCF-XX	Eccentric Base Modifier BCFE-XX				
	inch mm		inch mm		inch mm		inch mm		inch mm		inch mm	inch mm				
	Nom.	Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+0/-0.001 (+0/-0.3)	± .001 (± .03)		
BCF 1/2 S BCF 1/2 SB BCCF 1/2 S BCCF 1/2 SB	.500 12.70	+0/-0.001 +0/-0.03	.375 9.53	+0 / -0.005 +0 / -0.13	.190 4.83	+0.001/-0 +0.03/-0	.625 15.9	.03 .8	.25 6.4	1.03 26.2	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart	
7																
178																
BCFE 1/2 S BCFE 1/2 SB BCCF 1/2 S BCCF 1/2 SB	.500 12.70	+0/-0.001 +0/-0.03	.375 9.53	+0 / -0.005 +0 / -0.13	.190 4.83	+0.001/-0 +0.03/-0	.625 15.9	.03 .8	.25 6.4	1.03 26.2	Cylindrical	.010 .25	.38 9.5	.25 6.4	See Load-Speed Chart	
7																
178																
BCF 9/16 S BCF 9/16 SB BCCF 9/16 S BCCF 9/16 SB	.5625 14.29	+0/-0.001 +0/-0.03	.375 9.53	+0 / -0.005 +0 / -0.13	.190 4.83	+0.001/-0 +0.03/-0	.625 15.9	.03 .8	.25 6.4	1.03 26.2	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart	
7																
178																
BCFE 9/16 S BCFE 9/16 SB BCCF 9/16 S BCCF 9/16 SB	.5625 14.29	+0/-0.001 +0/-0.03	.375 9.53	+0 / -0.005 +0 / -0.13	.190 4.83	+0.001/-0 +0.03/-0	.625 15.9	.03 .8	.25 6.4	1.03 26.2	Cylindrical	.010 .25	.38 9.5	.25 6.4	See Load-Speed Chart	
7																
178																
BCF 5/8 S BCF 5/8 SB BCCF 5/8 S BCCF 5/8 SB	.625 15.88	+0/-0.001 +0/-0.03	.4375 11.11	+0 / -0.005 +0 / -0.13	.250 6.35	+0.001/-0 +0.03/-0	.75 19.1	.03 .8	.31 7.9	1.22 31.0	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart	
8																
203																
BCFE 5/8 S BCFE 5/8 SB BCCF 5/8 S BCCF 5/8 SB	.625 15.88	+0/-0.001 +0/-0.03	.4375 11.11	+0 / -0.005 +0 / -0.13	.250 6.35	+0.001/-0 +0.03/-0	.75 19.1	.03 .8	.31 7.9	1.22 31.0	Cylindrical	.015 .38	.44 11.1	.38 9.5	See Load-Speed Chart	
8																
203																
BCF 11/16 S BCF 11/16 SB BCCF 11/16 S BCCF 11/16 SB	.6875 17.46	+0/-0.001 +0/-0.03	.4375 11.11	+0 / -0.005 +0 / -0.13	.250 6.35	+0.001/-0 +0.03/-0	.75 19.1	.03 .8	.31 7.9	1.22 31.0	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart	
8																
203																
BCFE 11/16 S BCFE 11/16 SB BCCF 11/16 S BCCF 11/16 SB	.6875 17.46	+0/-0.001 +0/-0.03	.4375 11.11	+0 / -0.005 +0 / -0.13	.250 6.35	+0.001/-0 +0.03/-0	.75 19.1	.03 .8	.31 7.9	1.22 31.0	Cylindrical	.015 .38	.44 11.1	.38 9.5	See Load-Speed Chart	
8																
203																

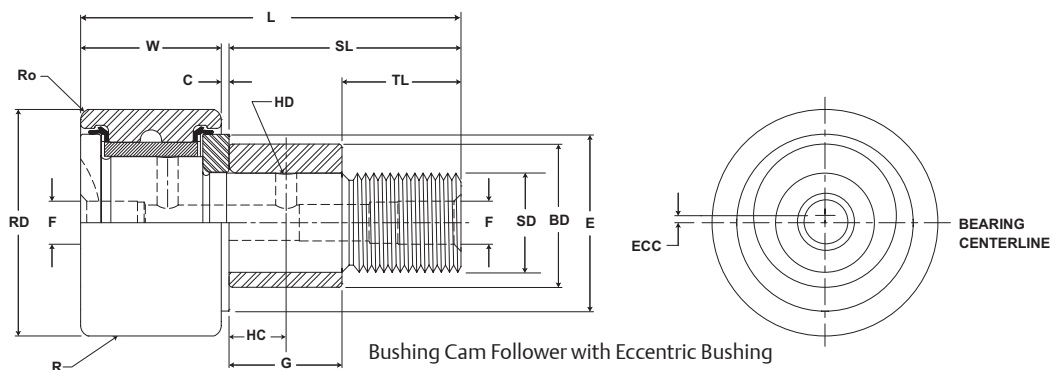
Metric dimensions for reference only.

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

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

Inch Cam Follower Bearings **McGILL**

Cam Follower Bearings



BCF, BCFE

Part No.	HC	HD	F	H	E	Ro	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed	WT
With LUBRI-DISC Seals	Hole Center	Radial Hole Diameter	Axial Hole Dia or Fitting	Hex Hole	Min Boss Diameter	Outer Corner Radius						Bearing Weight
	inch mm		inch mm		inch mm		inch mm			in-lb Nm	RPM	lb kg
	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
BCF 1/2 S	-	-	.125 3.17	.125 3.17	.41 10.4	.02 .4	.1903 4.834	+ .0002/- .0003 + .0005/- .0008	10-32	15 2	See Load-Speed Chart	.04 .02
BCF 1/2 SB												
BCCF 1/2 S												
BCCF 1/2 SB						N/A						
BCFE 1/2 S	-	-	.125 3.17	.125 3.17	.41 10.4	.02 .4	.253 6.426	+ .001/- .001 + .025/- .025	10-32	15 2	See Load-Speed Chart	.04 .02
BCFE 1/2 SB												
BCCFE 1/2 S												
BCCFE 1/2 SB						N/A						
BCF 9/16 S	-	-	.125 3.17	.125 3.17	.41 10.4	.02 .4	.1903 4.834	+ .0002/- .0003 + .0005/- .0008	10-32	15 2	See Load-Speed Chart	.04 .02
BCF 9/16 SB												
BCCF 9/16 S												
BCCF 9/16 SB						N/A						
BCFE 9/16 S	-	-	.125 3.17	.125 3.17	.41 10.4	.02 .4	.253 6.426	+ .001/- .001 + .025/- .025	10-32	15 2	See Load-Speed Chart	.04 .02
BCFE 9/16 SB												
BCCFE 9/16 S												
BCCFE 9/16 SB						N/A						
BCF 5/8 S	-	-	.125 3.17	.125 3.17	.46 11.7	.02 .4	.2503 6.358	+ .0002/- .0003 + .0005/- .0008	1/4-28	35 4	See Load-Speed Chart	.05 .02
BCF 5/8 SB												
BCCF 5/8 S												
BCCF 5/8 SB						N/A						
BCFE 5/8 S	-	-	.125 3.17	.125 3.17	.46 11.7	.02 .4	.378 9.60	+ .001/- .001 + .025/- .025	1/4-28	35 4	See Load-Speed Chart	.05 .02
BCFE 5/8 SB												
BCCFE 5/8 S												
BCCFE 5/8 SB						N/A						
BCF 11/16 S	-	-	.125 3.17	.125 3.17	.46 11.7	.02 .4	.2503 6.358	+ .0002/- .0003 + .0005/- .0008	1/4-28	35 4	See Load-Speed Chart	.06 .03
BCF 11/16 SB												
BCCF 11/16 S												
BCCF 11/16 SB						N/A						
BCFE 11/16 S	-	-	.125 3.17	.125 3.17	.46 11.7	.02 .4	.378 9.60	+ .001/- .001 + .025/- .025	1/4-28	35 4	See Load-Speed Chart	.06 .03
BCFE 11/16 SB												
BCCFE 11/16 S												
BCCFE 11/16 SB						N/A						

McGILL® Inch Cam Follower Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Non-Metallic Bushing

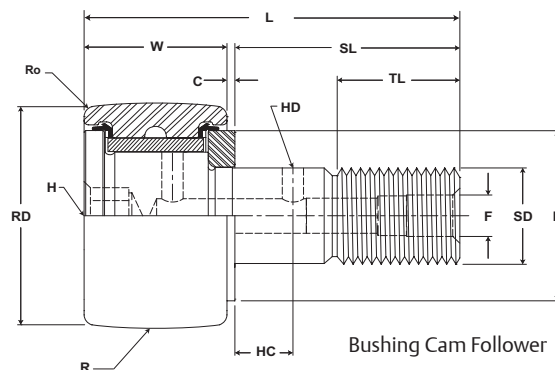
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: None - Self Lubricating Bushing

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



BCF, BCFE

Part No.	RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Crown	Eccentric				
	Prefix BCCF-XX		Base Modifier BCFE-XX			N/lb	N/lb									
	inch mm		inch mm		inch mm											
Nom.		Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+0/-0.001 (+0/-0.03)	± .001 (± .03)		
BCF 3/4 S	.750 19.05	+0/-0.001 +0/-0.03	.500 12.70	+0 / -0.005 +0 / -0.13	.375 9.53	+0.001/-0 +0.03/-0	.875 22.2	.03 .8	.38 9.5	1.41 35.7	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart	
BCF 3/4 SB																
BCCF 3/4 S											10					
BCCF 3/4 SB											254					
BCFE 3/4 S	.750 19.05	+0/-0.001 +0/-0.03	.500 12.70	+0 / -0.005 +0 / -0.13	.375 9.53	+0.001/-0 +0.03/-0	.875 22.2	.03 .8	.38 9.5	1.41 35.7	Cylindrical	.015 .38	.50 12.7	.50 12.7	See Load-Speed Chart	
BCFE 3/4 SB																
BCCFE 3/4 S											10					
BCCFE 3/4 SB											254					
BCF 7/8 S	.875 22.23	+0/-0.001 +0/-0.03	.500 12.70	+0 / -0.005 +0 / -0.13	.375 9.53	+0.001/-0 +0.03/-0	.875 22.2	.03 .8	.38 9.5	1.41 35.7	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart	
BCF 7/8 SB																
BCCF 7/8 S											10					
BCCF 7/8 SB											254					
BCFE 7/8 S	.875 22.23	+0/-0.001 +0/-0.03	.500 12.70	+0 / -0.005 +0 / -0.13	.375 9.53	+0.001/-0 +0.03/-0	.875 22.2	.03 .8	.38 9.5	1.41 35.7	Cylindrical	.015 .38	.50 12.7	.50 12.7	See Load-Speed Chart	
BCFE 7/8 SB																
BCCFE 7/8 S											10					
BCCFE 7/8 SB											254					
BCF 1 S	1.000 25.40	+0/-0.001 +0/-0.03	.625 15.88	+0 / -0.005 +0 / -0.13	.4375 11.11	+0.001/-0 +0.03/-0	1.00 25.4	.03 .8	.50 12.7	1.66 42.1	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart	
BCF 1 SB																
BCCF 1 S											12					
BCCF 1 SB											305					
BCFE 1 S	1.000 25.40	+0/-0.001 +0/-0.03	.625 15.88	+0 / -0.005 +0 / -0.13	.4375 11.11	+0.001/-0 +0.03/-0	1.00 25.4	.03 .8	.50 12.7	1.66 42.1	Cylindrical	.030 .76	.50 12.7	.63 15.9	See Load-Speed Chart	
BCFE 1 SB																
BCCFE 1 S											12					
BCCFE 1 SB											305					
BCF 1 1/8 S	1.125 28.58	+0/-0.001 +0/-0.03	.625 15.88	+0 / -0.005 +0 / -0.13	.4375 11.11	+0.001/-0 +0.03/-0	1.00 25.4	.03 .8	.50 12.7	1.66 42.1	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart	
BCF 1 1/8 SB																
BCCF 1 1/8 S											12					
BCCF 1 1/8 SB											305					
BCFE 1 1/8 S	1.125 28.58	+0/-0.001 +0/-0.03	.625 15.88	+0 / -0.005 +0 / -0.13	.4375 11.11	+0.001/-0 +0.03/-0	1.00 25.4	.03 .8	.50 12.7	1.66 42.1	Cylindrical	.030 .76	.50 12.7	.63 15.9	See Load-Speed Chart	
BCFE 1 1/8 SB																
BCCFE 1 1/8 S											12					
BCCFE 1 1/8 SB											305					

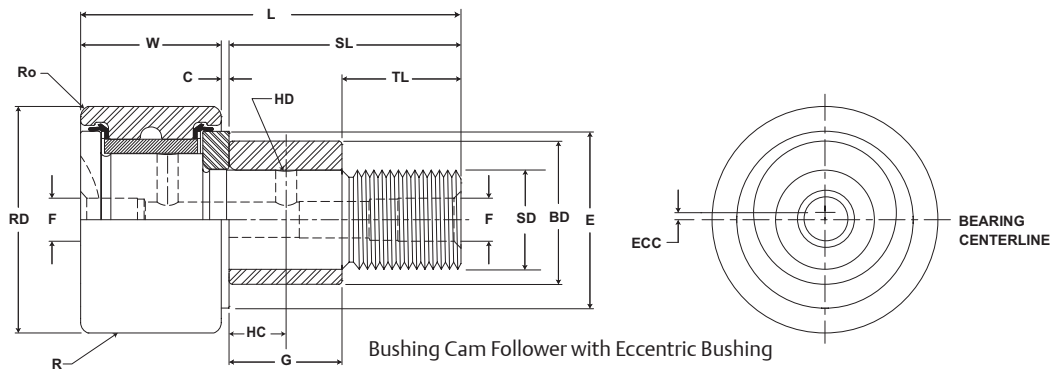
Metric dimensions for reference only.

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

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

Inch Cam Follower Bearings **McGILL®**

Cam Follower
Bearings



BCF, BCFE

Part No.	HC	HD	F	H	E	Ro	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed	WT
With LUBRI-DISC Seals	Hole Center	Radial Hole Diameter	Axial Hole Dia or Fitting	Hex Hole	Min Boss Diameter	Outer Corner Radius						Bearing Weight
	inch mm		inch mm		inch mm					inch mm		in-lb Nm
	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
BCF 3/4 S						.02 .4	.3753 9.533	+0.0002/-0.0003 +0.0005/-0.0008	3/8-24	95 11	See Load-Speed Chart	.07 .03
BCF 3/4 SB	.25 6.4	.09 2.4	.1875 4.76	.1875 4.76	.61 15.5							
BCCF 3/4 S						N/A						
BCCF 3/4 SB												
BCFE 3/4 S						.02 .4	.503 12.77	+0.001/-0.001 +0.025/-0.025	3/8-24	95 11	See Load-Speed Chart	.07 .03
BCFE 3/4 SB	.25 6.4	.09 2.4	.1875 4.76	.1875 4.76	.61 15.5							
BCCFE 3/4 S						N/A						
BCCFE 3/4 SB												
BCF 7/8 S						.02 .4	.3753 9.533	+0.0002/-0.0003 +0.0005/-0.0008	3/8-24	95 11	See Load-Speed Chart	.09 .04
BCF 7/8 SB	.25 6.4	.09 2.4	.1875 4.76	.1875 4.76	.61 15.5							
BCCF 7/8 S						N/A						
BCCF 7/8 SB												
BCFE 7/8 S						.02 .4	.503 12.77	+0.001/-0.001 +0.025/-0.025	3/8-24	95 11	See Load-Speed Chart	.09 .04
BCFE 7/8 SB	.25 6.4	.09 2.4	.1875 4.76	.1875 4.76	.61 15.5							
BCCFE 7/8 S						N/A						
BCCFE 7/8 SB												
BCF 1 S						.03 .8	.4378 11.120	+0.0002/-0.0003 +0.0005/-0.0008	7/16-20	250 28	See Load-Speed Chart	.17 .08
BCF 1 SB	.25 6.4	.09 2.4	.1875 4.76	.25 6.4	.78 19.8							
BCCF 1 S						N/A						
BCCF 1 SB												
BCFE 1 S						.03 .8	.628 15.95	+0.001/-0.001 +0.025/-0.025	7/16-20	250 28	See Load-Speed Chart	.17 .08
BCFE 1 SB	.25 6.4	.09 2.4	.1875 4.76	.25 6.4	.78 19.8							
BCCFE 1 S						N/A						
BCCFE 1 SB												
BCF 1 1/8 S						.03 .8	.4378 11.120	+0.0002/-0.0003 +0.0005/-0.0008	7/16-20	250 28	See Load-Speed Chart	.19 .09
BCF 1 1/8 SB	.25 6.4	.09 2.4	.1875 4.76	.25 6.4	.78 19.8							
BCCF 1 1/8 S						N/A						
BCCF 1 1/8 SB												
BCFE 1 1/8 S						.03 .8	.628 15.95	+0.001/-0.001 +0.025/-0.025	7/16-20	250 28	See Load-Speed Chart	.19 .09
BCFE 1 1/8 SB	.25 6.4	.09 2.4	.1875 4.76	.25 6.4	.78 19.8							
BCCFE 1 1/8 S						N/A						
BCCFE 1 1/8 SB												

Metric dimensions for reference only.

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

Bearing Selection
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Nomenclature Aid
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Features & Benefits
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Product Options
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Technical Engineering
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McGILL® Inch Cam Follower Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Non-Metallic Bushing

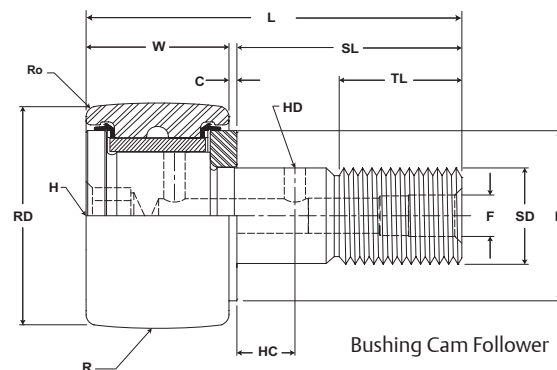
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: None - Self Lubricating Bushing

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



BCF, BCFE

Part No.	RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating															
With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Crown	Eccentric																			
	Prefix BCCF-XX		Base Modifier BCCE-XX			N/lb	N/lb																								
	inch mm		inch mm		inch mm																										
Nom.		Tol.		Nom.		Tol.		Nom.		Tol.		(Ref)		(Ref)		(Ref)		(Ref)		Radius		(Ref)		+0/-0.001 (+0/-0.03)		± .001 (± .03)		N/lb		N/lb	
BCF 1 1/4 S	1.250 31.75	+0/-0.001 +0/-0.03	.750 19.05	+0 / -0.005 +0 / -0.13	.500 12.70	+0.001/-0 +0.03/-0	1.25 31.8	.03 .8	.63 15.9	2.03 51.6	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart																
BCF 1 1/4 SB																															
BCCF 1 1/4 S											14																				
BCCF 1 1/4 SB											356																				
BCFE 1 1/4 S	1.250 31.75	+0/-0.001 +0/-0.03	.750 19.05	+0 / -0.005 +0 / -0.13	.500 12.70	+0.001/-0 +0.03/-0	1.25 31.8	.03 .8	.63 15.9	2.03 51.6	Cylindrical	.030 .76	.63 15.9	.69 17.4	See Load-Speed Chart																
BCFE 1 1/4 SB																															
BCCFE 1 1/4 S											14																				
BCCFE 1 1/4 SB											356																				
BCF 1 3/8 S	1.375 34.93	+0/-0.001 +0/-0.03	.750 19.05	+0 / -0.005 +0 / -0.13	.500 12.70	+0.001/-0 +0.03/-0	1.25 31.8	.03 .8	.63 15.9	2.03 51.6	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart																
BCF 1 3/8 SB																															
BCCF 1 3/8 S											14																				
BCCF 1 3/8 SB											356																				
BCFE 1 3/8 S	1.375 34.93	+0/-0.001 +0/-0.03	.750 19.05	+0 / -0.005 +0 / -0.13	.500 12.70	+0.001/-0 +0.03/-0	1.25 31.8	.03 .8	.63 15.9	2.03 51.6	Cylindrical	.030 .76	.63 15.9	.69 17.4	See Load-Speed Chart																
BCFE 1 3/8 SB																															
BCCFE 1 3/8 S											14																				
BCCFE 1 3/8 SB											356																				
BCF 1 1/2 S	1.500 38.10	+0/-0.001 +0/-0.03	.875 22.23	+0 / -0.005 +0 / -0.13	.625 15.88	+0.001/-0 +0.03/-0	1.50 38.1	.03 .8	.75 19.1	2.41 61.1	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart																
BCF 1 1/2 SB																															
BCCF 1 1/2 S											20																				
BCCF 1 1/2 SB											508																				
BCFE 1 1/2 S	1.500 38.10	+0/-0.001 +0/-0.03	.875 22.23	+0 / -0.005 +0 / -0.13	.625 15.88	+0.001/-0 +0.03/-0	1.50 38.1	.03 .8	.75 19.1	2.41 61.1	Cylindrical	.030 .76	.75 19.1	.88 22.2	See Load-Speed Chart																
BCFE 1 1/2 SB																															
BCCFE 1 1/2 S											20																				
BCCFE 1 1/2 SB											508																				
BCF 1 5/8 S	1.625 41.28	+0/-0.001 +0/-0.03	.875 22.23	+0 / -0.005 +0 / -0.13	.625 15.88	+0.001/-0 +0.03/-0	1.50 38.1	.03 .8	.75 19.1	2.41 61.1	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart																
BCF 1 5/8 SB																															
BCCF 1 5/8 S											20																				
BCCF 1 5/8 SB											508																				
BCFE 1 5/8 S	1.625 41.28	+0/-0.001 +0/-0.03	.875 22.23	+0 / -0.005 +0 / -0.13	.625 15.88	+0.001/-0 +0.03/-0	1.50 38.1	.03 .8	.75 19.1	2.41 61.1	Cylindrical	.030 .76	.75 19.1	.88 22.2	See Load-Speed Chart																
BCFE 1 5/8 SB																															
BCCFE 1 5/8 S											20																				
BCCFE 1 5/8 SB											508																				

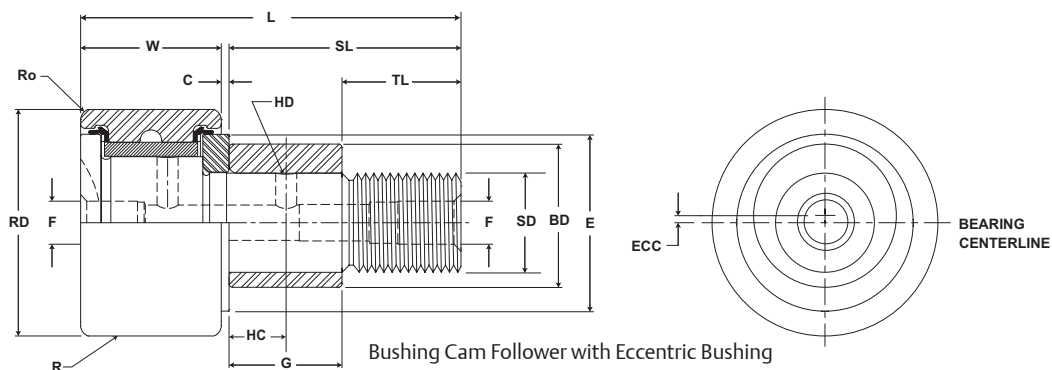
Metric dimensions for reference only.

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

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

Inch Cam Follower Bearings **McGILL**

Cam Follower Bearings



BCF, BCFE

Part No.	HC	HD	F	H	E	Ro	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed	WT
With LUBRI-DISC Seals	Hole Center	Radial Hole Diameter	Axial Hole Dia or Fitting	Hex Hole	Min Boss Diameter	Outer Corner Radius						Bearing Weight
	inch mm		inch mm		inch mm		inch mm			in-lb Nm	RPM	lb kg
	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
BCF 1 1/4 S						.03			1/2-20	350 40	See Load-Speed Chart	.30 .14
BCF 1 1/4 SB	.31	.09	.1875	.25	.98	.8	.5003	+0.0002/-0.0003				
BCCF 1 1/4 S	7.9	2.4	4.76	6.4	25.0		12.708	+0.0005/-0.0008				
BCCF 1 1/4 SB						N/A						
BCFE 1 1/4 S						.03			1/2-20	350 40	See Load-Speed Chart	.30 .14
BCFE 1 1/4 SB	.31	.09	.1875	.25	.98	.8	.690	+0.001/-0.001				
BCCFE 1 1/4 S	7.9	2.4	4.76	6.4	25.0		17.52	+0.025/-0.025				
BCCFE 1 1/4 SB						N/A						
BCF 1 3/8 S						.05			1/2-20	350 40	See Load-Speed Chart	.35 .16
BCF 1 3/8 SB	.31	.09	.1875	.25	.98	1.2	.5003	+0.0002/-0.0003				
BCCF 1 3/8 S	7.9	2.4	4.76	6.4	25.0		12.708	+0.0005/-0.0008				
BCCF 1 3/8 SB						N/A						
BCFE 1 3/8 S						.05			1/2-20	350 40	See Load-Speed Chart	.35 .16
BCFE 1 3/8 SB	.31	.09	.1875	.25	.98	1.2	.690	+0.001/-0.001				
BCCFE 1 3/8 S	7.9	2.4	4.76	6.4	25.0		17.52	+0.025/-0.025				
BCCFE 1 3/8 SB						N/A						
BCF 1 1/2 S						.06			5/8-18	650 73	See Load-Speed Chart	.53 .24
BCF 1 1/2 SB	.38	.09	.1875	.31	1.09	1.6	.6253	+0.0002/-0.0003				
BCCF 1 1/2 S	9.5	2.4	4.76	7.9	27.8		15.883	+0.0005/-0.0008				
BCCF 1 1/2 SB						N/A						
BCFE 1 1/2 S						.06			5/8-18	650 73	See Load-Speed Chart	.53 .24
BCFE 1 1/2 SB	.38	.09	.1875	.31	1.09	1.6	.878	+0.001/-0.001				
BCCFE 1 1/2 S	9.5	2.4	4.76	7.9	27.8		22.30	+0.025/-0.025				
BCCFE 1 1/2 SB						N/A						
BCF 1 5/8 S						.06			5/8-18	650 73	See Load-Speed Chart	.60 .27
BCF 1 5/8 SB	.38	.09	.1875	.31	1.09	1.6	.6253	+0.0002/-0.0003				
BCCF 1 5/8 S	9.5	2.4	4.76	7.9	27.8		15.883	+0.0005/-0.0008				
BCCF 1 5/8 SB						N/A						
BCFE 1 5/8 S						.06			5/8-18	650 73	See Load-Speed Chart	.60 .27
BCFE 1 5/8 SB	.38	.09	.1875	.31	1.09	1.6	.878	+0.001/-0.001				
BCCFE 1 5/8 S	9.5	2.4	4.76	7.9	27.8		22.30	+0.025/-0.025				
BCCFE 1 5/8 SB						N/A						

McGILL® Inch Cam Follower Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Non-Metallic Bushing

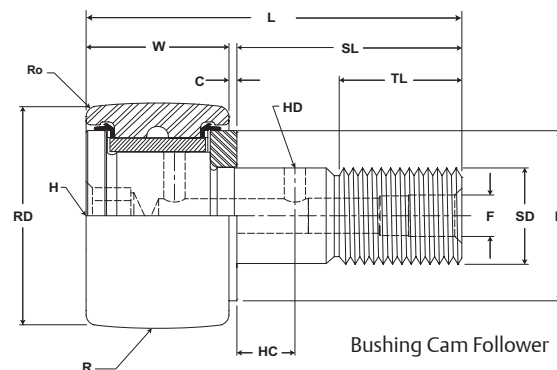
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: None - Self Lubricating Bushing

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



Bushing Cam Follower

BCF, BCFE

Part No.	RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating			
With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Crown	Eccentric							
	Prefix BCCF-XX		Base Modifier BCFE-XX			N/lb	N/lb												
	inch mm		inch mm		inch mm														
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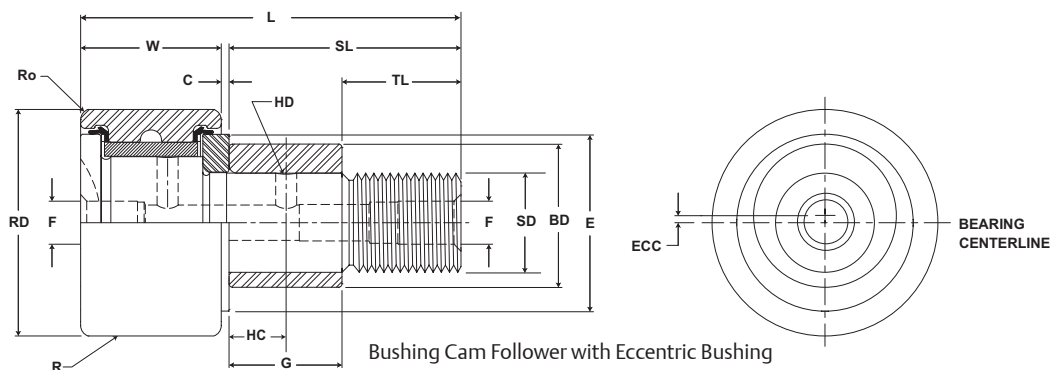
Metric dimensions for reference only.

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

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

Inch Cam Follower Bearings **McGILL®**

Cam Follower Bearings



BCF, BCFE

Part No.	HC	HD	F	H	E	Ro	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed	WT
With LUBRI-DISC Seals	Hole Center	Radial Hole Diameter	Axial Hole Dia or Fitting	Hex Hole	Min Boss Diameter	Outer Corner Radius						Bearing Weight
	inch mm		inch mm		inch mm							inch mm
	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
BCF 1 3/4 S						.06 1.6	.7503 19.058	+0.0002/-0.0003 +0.0005/-0.0008	3/4-16	1,250 141	See Load-Speed Chart	.84 .38
BCF 1 3/4 SB	.44 11.1	.125 3	.1875 4.76	.31 7.9	1.25 31.8	N/A						
BCCF 1 3/4 S							1.003 25.47	+0.001/-0.001 +0.025/-0.025	3/4-16	1,250 141	See Load-Speed Chart	.84 .38
BCCF 1 3/4 SB	.44 11.1	.125 3	.1875 4.76	.31 7.9	1.25 31.8	N/A						
BCFE 1 3/4 S						.06 1.6	.7503 19.058	+0.0002/-0.0003 +0.0005/-0.0008	3/4-16	1,250 141	See Load-Speed Chart	.84 .38
BCFE 1 3/4 SB	.44 11.1	.125 3	.1875 4.76	.31 7.9	1.25 31.8	N/A						
BCCFE 1 3/4 S							1.003 25.47	+0.001/-0.001 +0.025/-0.025	3/4-16	1,250 141	See Load-Speed Chart	.84 .38
BCCFE 1 3/4 SB	.44 11.1	.125 3	.1875 4.76	.31 7.9	1.25 31.8	N/A						
BCF 1 7/8 S						.06 1.6	.7503 19.058	+0.0002/-0.0003 +0.0005/-0.0008	3/4-16	1,250 141	See Load-Speed Chart	.95 .43
BCF 1 7/8 SB	.44 11.1	.125 3	.1875 4.76	.31 7.9	1.25 31.8	N/A						
BCCF 1 7/8 S							1.003 25.47	+0.001/-0.001 +0.025/-0.025	3/4-16	1,250 141	See Load-Speed Chart	.95 .43
BCCF 1 7/8 SB	.44 11.1	.125 3	.1875 4.76	.31 7.9	1.25 31.8	N/A						
BCFE 1 7/8 S						.06 1.6	.7503 19.058	+0.0002/-0.0003 +0.0005/-0.0008	3/4-16	1,250 141	See Load-Speed Chart	.95 .43
BCFE 1 7/8 SB	.44 11.1	.125 3	.1875 4.76	.31 7.9	1.25 31.8	N/A						
BCCFE 1 7/8 S							1.003 25.47	+0.001/-0.001 +0.025/-0.025	3/4-16	1,250 141	See Load-Speed Chart	.95 .43
BCCFE 1 7/8 SB	.44 11.1	.125 3	.1875 4.76	.31 7.9	1.25 31.8	N/A						
BCF 2 S						.09 2.4	.8753 22.233	+0.0002/-0.0003 +0.0005/-0.0008	7/8-14	1,500 170	See Load-Speed Chart	1.36 .62
BCF 2 SB	.50 12.7	.125 3	.1875 4.76	.44 11.1	1.41 35.7	N/A						
BCCF 2 S							1.190 30.22	+0.001/-0.001 +0.025/-0.025	7/8-14	1,500 170	See Load-Speed Chart	1.36 .62
BCCF 2 SB	.50 12.7	.125 3	.1875 4.76	.44 11.1	1.41 35.7	N/A						
BCFE 2 S						.09 2.4	.8753 22.233	+0.0002/-0.0003 +0.0005/-0.0008	7/8-14	1,500 170	See Load-Speed Chart	1.65 .75
BCFE 2 SB	.50 12.7	.125 3	.1875 4.76	.44 11.1	1.41 35.7	N/A						
BCCFE 2 S							.8753 22.233	+0.001/-0.001 +0.025/-0.025	7/8-14	1,500 170	See Load-Speed Chart	1.65 .75
BCCFE 2 SB	.50 12.7	.125 3	.1875 4.76	.44 11.1	1.41 35.7	N/A						
BCF 2 1/4 S						.09 2.4	.8753 22.233	+0.0002/-0.0003 +0.0005/-0.0008	7/8-14	1,500 170	See Load-Speed Chart	1.65 .75
BCF 2 1/4 SB	.50 12.7	.125 3	.1875 4.76	.44 11.1	1.41 35.7	N/A						
BCCF 2 1/4 S							.8753 22.233	+0.001/-0.001 +0.025/-0.025	7/8-14	1,500 170	See Load-Speed Chart	1.65 .75
BCCF 2 1/4 SB	.50 12.7	.125 3	.1875 4.76	.44 11.1	1.41 35.7	N/A						
BCFE 2 1/4 S						.09 2.4	.8753 22.233	+0.001/-0.001 +0.025/-0.025	7/8-14	1,500 170	See Load-Speed Chart	1.65 .75
BCFE 2 1/4 SB	.50 12.7	.125 3	.1875 4.76	.44 11.1	1.41 35.7	N/A						
BCCFE 2 1/4 S							.8753 22.233	+0.001/-0.001 +0.025/-0.025	7/8-14	1,500 170	See Load-Speed Chart	1.65 .75
BCCFE 2 1/4 SB	.50 12.7	.125 3	.1875 4.76	.44 11.1	1.41 35.7	N/A						

McGILL® Inch Cam Follower Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Non-Metallic Bushing

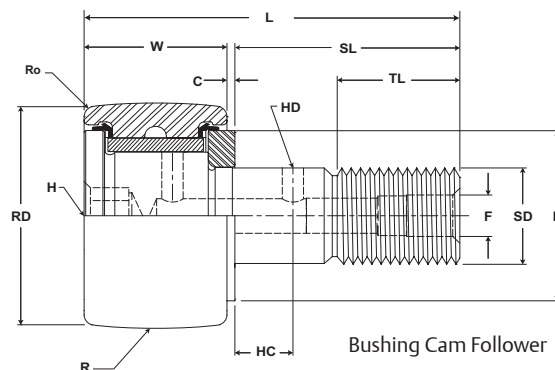
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: None - Self Lubricating Bushing

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



BCF, BCFE

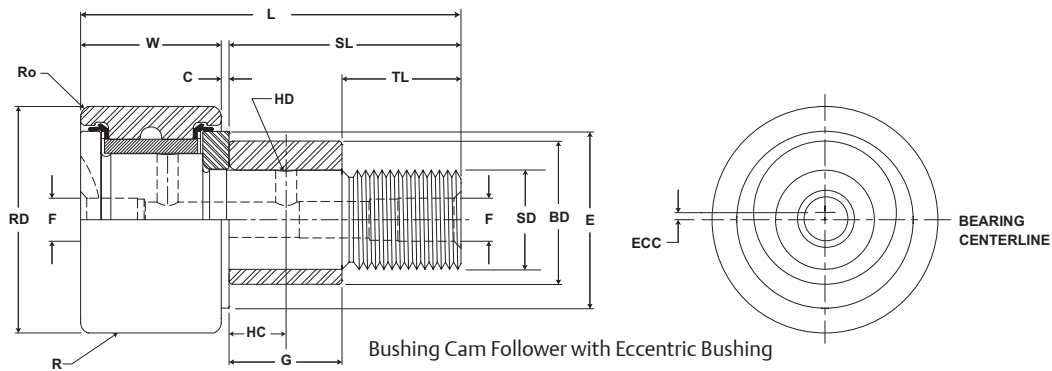
Part No.	RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating															
With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Crown	Eccentric																			
	Prefix BCCF-XX		Base Modifier BCFE-XX			N/lb	N/lb																								
	inch mm		inch mm		inch mm			inch mm		inch mm		inch mm																			
Nom.		Tol.		Nom.		Tol.		Nom.		Tol.		(Ref)		(Ref)		(Ref)		(Ref)		Radius		(Ref)		+0/-0.001 (+0/-0.3)		± .001 (± .03)		N/lb		N/lb	
BCF 2 1/2 S																															
BCF 2 1/2 SB		2.500 +0/-0.001		63.50 +0/-0.03		1.500 +0 / -0.005		38.10 +0 / -0.13		1.000 +0.001/-0		25.40 +0.03/-0		2.25 57.2		.03 .8		2.25 57.2		3.78 96.0		Cylindrical		N/A		N/A		N/A		See Load-Speed Chart	
BCCF 2 1/2 S																						30 762									
BCCF 2 1/2 SB																															
BCFE 2 1/2 S																						Cylindrical		.030 .76		.13 28.6		.38 34.9		See Load-Speed Chart	
BCFE 2 1/2 SB		2.500 +0/-0.001		63.50 +0/-0.03		1.500 +0 / -0.005		38.10 +0 / -0.13		1.000 +0.001/-0		25.40 +0.03/-0		2.25 57.2		.03 .8		2.25 57.2		3.78 96.0		30 762									
BCCFE 2 1/2 S																															
BCCFE 2 1/2 SB																															
BCF 2 3/4 S																						Cylindrical		N/A		N/A		N/A		See Load-Speed Chart	
BCF 2 3/4 SB		2.750 +0/-0.001		69.85 +0/-0.03		1.500 +0 / -0.005		38.10 +0 / -0.13		1.000 +0.001/-0		25.40 +0.03/-0		2.25 57.2		.03 .8		2.25 57.2		3.78 96.0		30 762									
BCCF 2 3/4 S																															
BCCF 2 3/4 SB																															
BCFE 2 3/4 S																						Cylindrical		.030 .76		.13 28.6		.38 34.9		See Load-Speed Chart	
BCFE 2 3/4 SB		2.750 +0/-0.001		69.85 +0/-0.03		1.500 +0 / -0.005		38.10 +0 / -0.13		1.000 +0.001/-0		25.40 +0.03/-0		2.25 57.2		.03 .8		2.25 57.2		3.78 96.0		30 762									
BCCFE 2 3/4 S																															
BCCFE 2 3/4 SB																															
BCF 3 S																						Cylindrical		N/A		N/A		N/A		See Load-Speed Chart	
BCF 3 SB		3.000 +0/-0.001		76.20 +0/-0.03		1.750 +0 / -0.005		44.45 +0 / -0.13		1.250 +0.001/-0		31.75 +0.03/-0		2.50 63.5		.03 .8		2.50 63.5		4.28 108.7		30 762									
BCCF 3 S																															
BCCF 3 SB																															
BCFE 3 S																						Cylindrical		.060 .52		.25 31.8		.75 44.5		See Load-Speed Chart	
BCFE 3 SB		3.000 +0/-0.001		76.20 +0/-0.03		1.750 +0 / -0.005		44.45 +0 / -0.13		1.250 +0.001/-0		31.75 +0.03/-0		2.50 63.5		.03 .8		2.50 63.5		4.28 108.7		30 762									
BCCFE 3 S																															
BCCFE 3 SB																															
BCF 3 1/4 S																						Cylindrical		N/A		N/A		N/A		See Load-Speed Chart	
BCF 3 1/4 SB		3.250 +0/-0.001		82.55 +0/-0.03		1.750 +0 / -0.005		44.45 +0 / -0.13		1.250 +0.001/-0		31.75 +0.03/-0		2.50 63.5		.03 .8		2.50 63.5		4.28 108.7		30 762									
BCCF 3 1/4 S																															
BCCF 3 1/4 SB																															
BCFE 3 1/4 S																						Cylindrical		.060 .52		.25 31.8		.75 44.5		See Load-Speed Chart	
BCFE 3 1/4 SB		3.250 +0/-0.001		82.55 +0/-0.03		1.750 +0 / -0.005		44.45 +0 / -0.13		1.250 +0.001/-0		31.75 +0.03/-0		2.50 63.5		.03 .8		2.50 63.5		4.28 108.7		30 762									
BCCFE 3 1/4 S																															
BCCFE 3 1/4 SB																															

Metric dimensions for reference only.

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

Inch Cam Follower Bearings **McGILL**



BCF, BCFE

Part No.	HC	HD	F	H	E	Ro	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed	WT
With LUBRI-DISC Seals	Hole Center	Radial Hole Diameter	Axial Hole Dia or Fitting	Hex Hole	Min Boss Diameter	Outer Corner Radius						Bearing Weight
	inch mm		inch mm		inch mm							inch mm
	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
BCF 2 1/2 S						.09 2.4	1.0003 25.408	+ .0002/- .0003 + .0005/- .0008	1-14	2,250 254	See Load-Speed Chart	2.50 1.13
BCF 2 1/2 SB	.56 14.3	.125 3	.1875 4.76	.50 12.7	1.69 42.9							
BCCF 2 1/2 S						N/A						
BCCF 2 1/2 SB												
BCFE 2 1/2 S						.09 2.4	1.378 35.00	+ .001/- .001 + .025/- .025	1-14	2,250 254	See Load-Speed Chart	2.50 1.13
BCFE 2 1/2 SB	.56 14.3	.125 3	.1875 4.76	.50 12.7	1.69 42.9							
BCCFE 2 1/2 S						N/A						
BCCFE 2 1/2 SB												
BCF 2 3/4 S						.09 2.4	1.0003 25.408	+ .0002/- .0003 + .0005/- .0008	1-14	2,250 254	See Load-Speed Chart	2.93 1.33
BCF 2 3/4 SB	.56 14.3	.125 3	.1875 4.76	.50 12.7	1.69 42.9							
BCCF 2 3/4 S						N/A						
BCCF 2 3/4 SB												
BCFE 2 3/4 S						.09 2.4	1.378 35.00	+ .001/- .001 + .025/- .025	1-14	2,250 254	See Load-Speed Chart	2.93 1.33
BCFE 2 3/4 SB	.56 14.3	.125 3	.1875 4.76	.50 12.7	1.69 42.9							
BCCFE 2 3/4 S						N/A						
BCCFE 2 3/4 SB												
BCF 3 S						.13 3.2	1.2503 31.758	+ .0002/- .0003 + .0005/- .0008	1 1/4-12	3,450 390	See Load-Speed Chart	4.20 1.91
BCF 3 SB	.63 15.9	.125 3	.25 6.4	.75 19.1	2.13 54.0							
BCCF 3 S						N/A						
BCCF 3 SB												
BCFE 3 S						.13 3.2	1.753 44.52	+ .001/- .001 + .025/- .025	1 1/4-12	3,450 390	See Load-Speed Chart	4.20 1.91
BCFE 3 SB	.63 15.9	.125 3	.25 6.4	.75 19.1	2.13 54.0							
BCCFE 3 S						N/A						
BCCFE 3 SB												
BCF 3 1/4 S						.13 3.2	1.2503 31.758	+ .0002/- .0003 + .0005/- .0008	1 1/4-12	3,450 390	See Load-Speed Chart	4.81 2.18
BCF 3 1/4 SB	.63 15.9	.125 3	.25 6.4	.75 19.1	2.13 54.0							
BCCF 3 1/4 S						N/A						
BCCF 3 1/4 SB												
BCFE 3 1/4 S						.13 3.2	1.753 44.52	+ .001/- .001 + .025/- .025	1 1/4-12	3,450 390	See Load-Speed Chart	4.81 2.18
BCFE 3 1/4 SB	.63 15.9	.125 3	.25 6.4	.75 19.1	2.13 54.0							
BCCFE 3 1/4 S						N/A						
BCCFE 3 1/4 SB												

McGILL® Inch Cam Follower Bearings



Basic Construction Type: Stud Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Non-Metallic Bushing

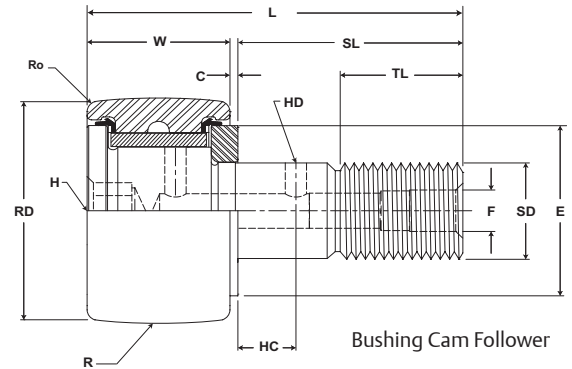
Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: None - Self Lubricating Bushing

System Configuration: Concentric / Eccentric

Mounting Feature: Slot / Hex Hole



BCF, BCFE

Part No.	RD		W		SD		SL	C	TL	L	R	ECC	G	BD	Track Roller Dynamic Rating	Track Roller Static Rating
With LUBRI-DISC Seals	Roller Diameter		Roller Width		Stud Diameter		Stud Length	Endplate Extension	Minimum Thread Length	Length Overall	Crown	Eccentric				
											Prefix BCCF-XX	Base Modifier BCCE-XX				
	inch mm		inch mm		inch mm		inch mm	inch mm	inch mm	inch mm	inch mm	inch mm				
Nom.		Tol.	Nom.	Tol.	Nom.	Tol.	(Ref)	(Ref)	(Ref)	(Ref)	Radius	(Ref)	+0/-0.001 (+0/-0.03)	± .001 (± .03)	N/lb	N/lb
BCF 3 1/2 S	3.500 88.90	+0/-0.001 +0/-0.03	2.000 50.80	+0 / -0.005 +0 / -0.13	1.375 34.93	+0.001/-0 +0.03/-0	2.75 69.9	.03 .8	2.75 69.9	4.78 121.4	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart	
BCF 3 1/2 SB																
BCCF 3 1/2 S																
BCCF 3 1/2 SB																
BCFE 3 1/2 S	3.500 88.90	+0/-0.001 +0/-0.03	2.000 50.80	+0 / -0.005 +0 / -0.13	1.375 34.93	+0.001/-0 +0.03/-0	2.75 69.9	.03 .8	2.75 69.9	4.78 121.4	Cylindrical	.060 .52	.38 34.9	.81 46.0	See Load-Speed Chart	
BCFE 3 1/2 SB																
BCCFE 3 1/2 S																
BCCFE 3 1/2 SB																
BCF 4 S	4.000 101.60	+0/-0.001 +0/-0.03	2.250 57.15	+0 / -0.005 +0 / -0.13	1.500 38.10	+0.001/-0 +0.03/-0	3.50 88.9	.03 .8	3.50 88.9	5.78 146.8	Cylindrical	N/A	N/A	N/A	See Load-Speed Chart	
BCF 4 SB																
BCCF 4 S																
BCCF 4 SB																
BCFE 4 S	4.000 101.60	+0/-0.001 +0/-0.03	2.250 57.15	+0 / -0.005 +0 / -0.13	1.500 38.10	+0.001/-0 +0.03/-0	3.50 88.9	.03 .8	3.50 88.9	5.78 146.8	Cylindrical	.060 .52	.00 50.8	.00 50.8	See Load-Speed Chart	
BCFE 4 SB																
BCCFE 4 S																
BCCFE 4 SB																

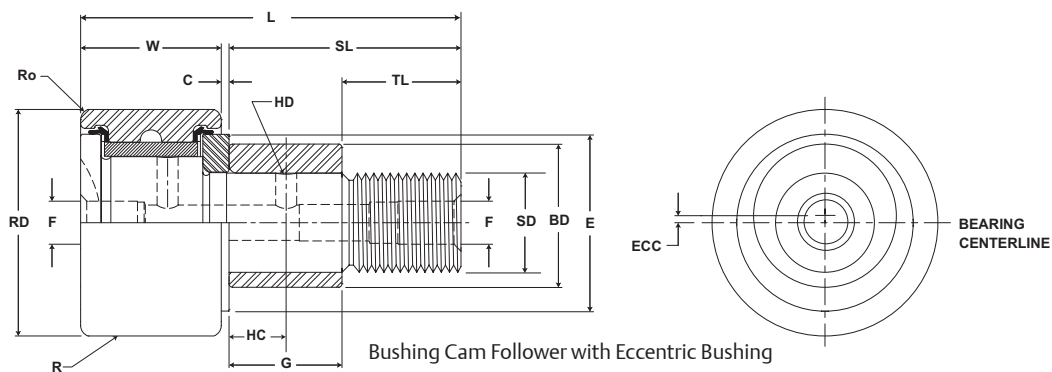
Metric dimensions for reference only.

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

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

Inch Cam Follower Bearings **McGILL**

Cam Follower Bearings



BCF, BCFE

Part No.	HC	HD	F	H	E	Ro	Housing Bore Diameter		Thread Type	Clamping Torque	Limiting Speed	WT
With LUBRI-DISC Seals	Hole Center	Radial Hole Diameter	Axial Hole Dia or Fitting	Hex Hole	Min Boss Diameter	Outer Corner Radius						Bearing Weight
	inch mm		inch mm		inch mm							inch mm
	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	(Ref)	Nom.	Tol.				
BCF 3 1/2 S						.13 3.2	1.3753 34.933	+ .0002/- .0003 + .0005/- .0008	1 3/8-12	4,200 475	See Load-Speed Chart	6.42 2.91
BCF 3 1/2 SB	.69 17.5	.125 3	.25 6.4	.75 19.1	2.44 61.9							
BCCF 3 1/2 S						N/A						
BCCF 3 1/2 SB												
BCFE 3 1/2 S						.13 3.2	1.815 46.10	+ .001/- .001 + .025/- .025	1 3/8-12	4,200 475	See Load-Speed Chart	6.42 2.91
BCFE 3 1/2 SB	.69 17.5	.125 3	.25 6.4	.75 19.1	2.44 61.9							
BCCFE 3 1/2 S						N/A						
BCCFE 3 1/2 SB												
BCF 4 S						.13 3.2	1.5003 38.108	+ .0002/- .0003 + .0005/- .0008	1 1/2-12	5,000 565	See Load-Speed Chart	9.46 4.29
BCF 4 SB	.75 19.1	.125 3	.25 6.4	.75 19.1	2.80 71.0							
BCCF 4 S						N/A						
BCCF 4 SB												
BCFE 4 S						.13 3.2	2.003 50.85	+ .001/- .001 + .025/- .025	1 1/2-12	5,000 565	See Load-Speed Chart	9.46 4.29
BCFE 4 SB	.75 19.1	.125 3	.25 6.4	.75 19.1	2.80 71.0							
BCCFE 4 S						N/A						
BCCFE 4 SB												