

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**



| 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 | Page No. |
| ● | ○ | ● | ◐ | \$ | 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 | |

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.





| 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 |

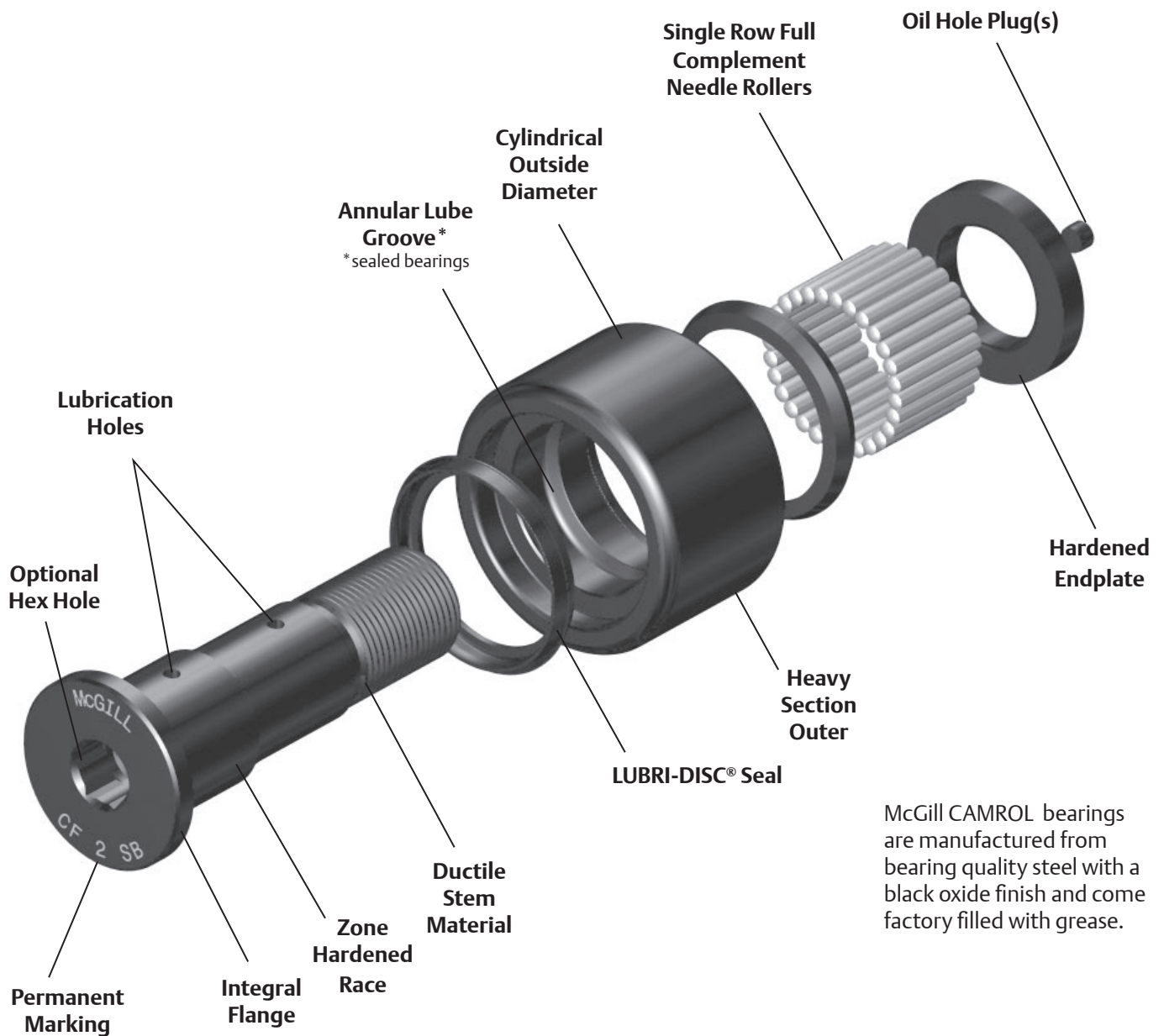
| | | | | | | | | | | | | |
|-----------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Circular Track / Misalignment | | | | | | | | | | | | |
| Load Sharing / Adjustment To Track | | | | | | | | | | | | |
| Relubrication And Promote Bearing Life | | | | | | | | | | | | |
| Contamination Barrier | | | | | | | | | | | | |
| Blind Hole Mounting | | | | | | | | | | | | |
| Allows The Use Of A Lube Fitting When Lubrication From The Flange Side Of Bearing | | | | | | | | | | | | |
| Accessories Included | | | | | | | | | | | | |

O = Optional
S = Standard
○ = Not Recommended
 ○ ○ ○ ● ●
Poor ← → **Best**

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

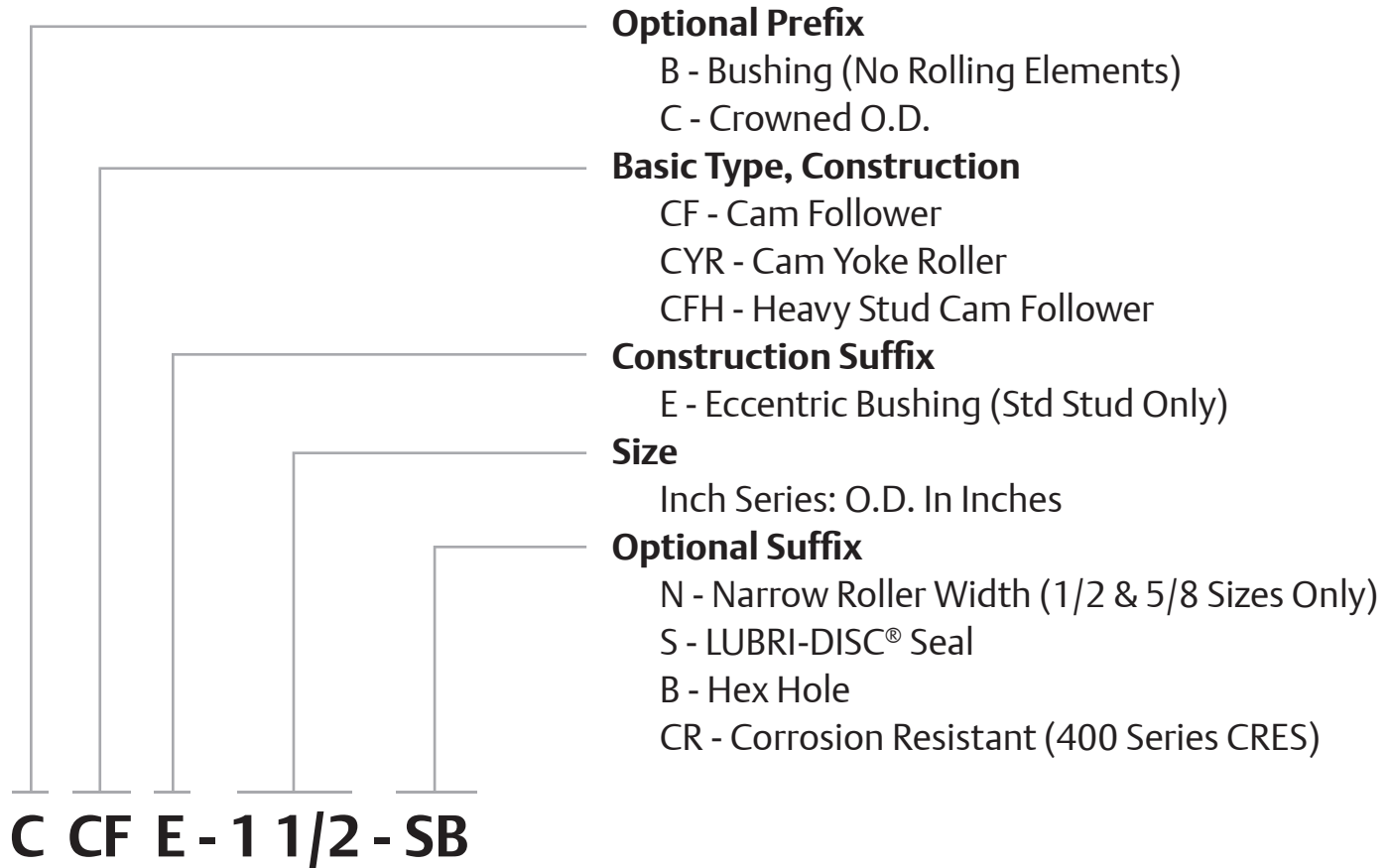
McGill Inch Cam Followers

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.

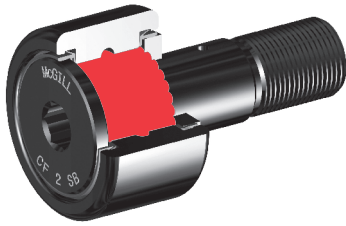


McGill CAMROL bearings are manufactured from bearing quality steel with a black oxide finish and come factory filled with grease.

Cam Follower Inch Nomenclature

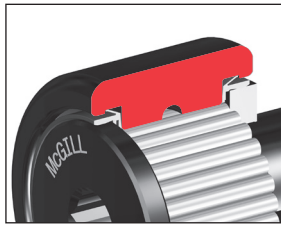


Features and Benefits



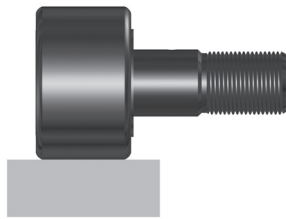
Single Row Full Complement Needle Rollers

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.



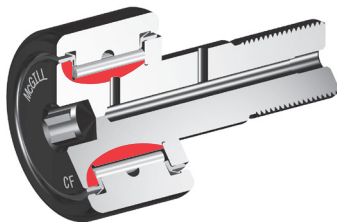
Heavy Section Outer

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



Cylindrical Outside Diameter (OD)

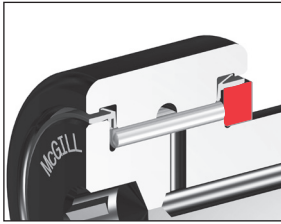
The cylindrical OD can improve performance in certain applications such as improved track capacity by maximizing the contact area with the track.



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

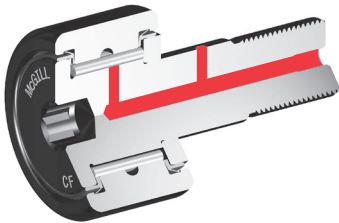


Hardened Endplate

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)

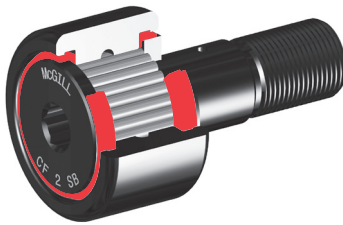
All McGill stud type Cam followers include 1-2 (depending on # of holes) oil hole plugs to help provide proper lubrication path to the rolling elements and prevent contamination from entering the bearing through an unused oil hole.

Options



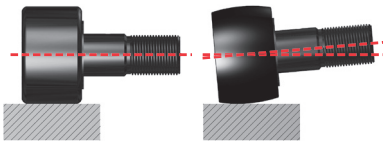
Black Oxide Finish

Bearings have a black oxide finish on all external surfaces.



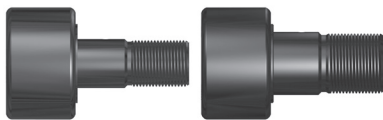
LUBRI-DISC® Seal

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.

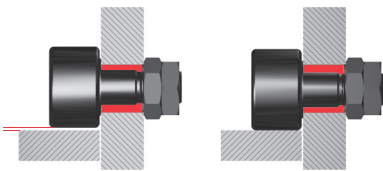
*On Heavy-Stud Type Bearings, CFH inch series only

Options continued



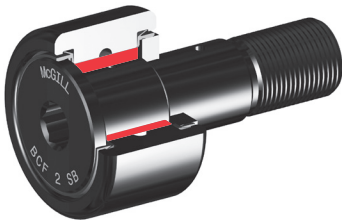
Hex Hole (Broached)

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

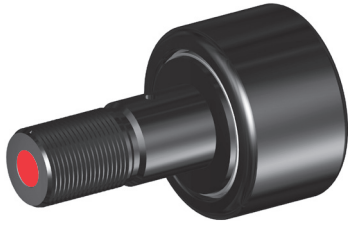
Non-Metallic bushing provides load support with a sliding motion that reduces the need for bearing lubrication for non-food applications where relubrication is not convenient or grease contamination in the process is not acceptable. Max allowable continuous operating temperature up to 200°F. Bushing 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.



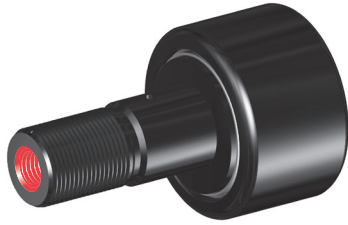
Corrosion Resistance

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.

Additional Options



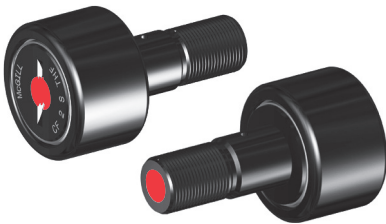
BHT
Hex hole at threaded end of cam follower stud.



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.

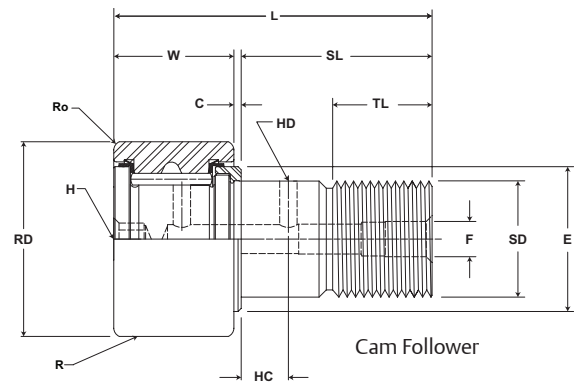
Custom Capabilities

- *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:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole

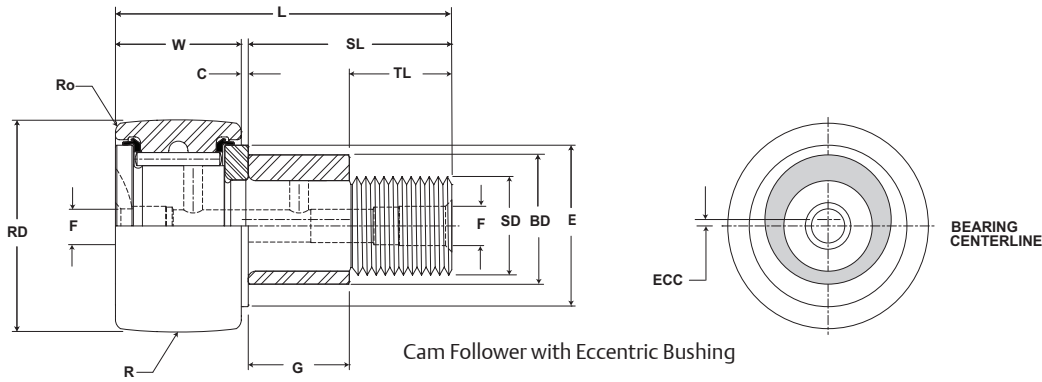


CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | | |
| CF 1/2 | CF 1/2 S | | | | | | | | | | | Cylindrical | | | | 680 3,025 | 790 3,514 |
| CF 1/2 B | CF 1/2 SB | .500 | +0/-0.001 | .375 | +0 / -0.005 | .190 | +0.01/-0 | .63 | .031 | .25 | 1.03 | 7 178 | N/A | N/A | N/A | | |
| CCF 1/2 | CCF 1/2 S | 12.70 | +0/-0.03 | 9.53 | +0 / -0.13 | 4.83 | +0.03/-0 | 15.9 | .8 | 6.4 | 26.2 | | | | | | |
| CCF 1/2 B | CCF 1/2 SB | | | | | | | | | | | | | | | | |
| CFE 1/2 | CFE 1/2 S | | | | | | | | | | | | Cylindrical | | | | 680 3,025 |
| CFE 1/2 B | CFE 1/2 SB | .500 | +0/-0.001 | .375 | +0 / -0.005 | .190 | +0.01/-0 | .63 | .031 | .25 | 1.03 | 7 178 | .010 | .375 | .250 | | |
| CCFE 1/2 | CCFE 1/2 S | 12.70 | +0/-0.03 | 9.53 | +0 / -0.13 | 4.83 | +0.03/-0 | 15.9 | .8 | 6.4 | 26.2 | | | | | | |
| CCFE 1/2 B | CCFE 1/2 SB | | | | | | | | | | | | | | | | |
| CFH 1/2 | CFH 1/2 S | | | | | | | | | | | | Cylindrical | | | | 680 3,025 |
| CFH 1/2 B | CFH 1/2 SB | .500 | +0/-0.001 | .375 | +0 / -0.005 | .190 | +0.01/-0 | .63 | .031 | .25 | 1.03 | 7 178 | N/A | N/A | N/A | | |
| CCFH 1/2 | CCFH 1/2 S | 12.70 | +0/-0.03 | 9.53 | +0 / -0.13 | 4.83 | +0.03/-0 | 15.9 | .8 | 6.4 | 26.2 | | | | | | |
| CCFH 1/2 B | CCFH 1/2 SB | | | | | | | | | | | | | | | | |
| CF 1/2 N | CF 1/2 N S | | | | | | | | | | | | Cylindrical | | | | 620 2,758 |
| CF 1/2 N B | CF 1/2 N SB | .500 | +0/-0.001 | .344 | +0 / -0.005 | .190 | +0.01/-0 | .50 | .031 | .25 | .88 | 6 152 | N/A | N/A | N/A | | |
| CCF 1/2 N | CCF 1/2 N S | 12.70 | +0/-0.03 | 8.74 | +0 / -0.13 | 4.83 | +0.03/-0 | 12.7 | .8 | 6.4 | 22.2 | | | | | | |
| CCF 1/2 N B | CCF 1/2 N SB | | | | | | | | | | | | | | | | |
| CFE 1/2 N | CFE 1/2 N S | | | | | | | | | | | | Cylindrical | | | | 620 2,758 |
| CFE 1/2 N B | CFE 1/2 N SB | .500 | +0/-0.001 | .344 | +0 / -0.005 | .190 | +0.01/-0 | .50 | .031 | .25 | .88 | 6 152 | .010 | .250 | .250 | | |
| CCFE 1/2 N | CCFE 1/2 N S | 12.70 | +0/-0.03 | 8.74 | +0 / -0.13 | 4.83 | +0.03/-0 | 12.7 | .8 | 6.4 | 22.2 | | | | | | |
| CCFE 1/2 N B | CCFE 1/2 N SB | | | | | | | | | | | | | | | | |
| CF 9/16 | CF 9/16 S | | | | | | | | | | | | Cylindrical | | | | 680 3,025 |
| CF 9/16 B | CF 9/16 SB | .5625 | +0/-0.001 | .375 | +0 / -0.005 | .190 | +0.01/-0 | .63 | .031 | .25 | 1.03 | 7 178 | N/A | N/A | N/A | | |
| CCF 9/16 | CCF 9/16 S | 14.29 | +0/-0.03 | 9.53 | +0 / -0.13 | 4.83 | +0.03/-0 | 15.9 | .8 | 6.4 | 26.2 | | | | | | |
| CCF 9/16 B | CCF 9/16 SB | | | | | | | | | | | | | | | | |
| CFE 9/16 | CFE 9/16 S | | | | | | | | | | | | Cylindrical | | | | 680 3,025 |
| CFE 9/16 B | CFE 9/16 SB | .5625 | +0/-0.001 | .375 | +0 / -0.005 | .190 | +0.01/-0 | .63 | .031 | .25 | 1.03 | 7 178 | .010 | .375 | .250 | | |
| CCFE 9/16 | CCFE 9/16 S | 14.29 | +0/-0.03 | 9.53 | +0 / -0.13 | 4.83 | +0.03/-0 | 15.9 | .8 | 6.4 | 26.2 | | | | | | |
| CCFE 9/16 B | CCFE 9/16 SB | | | | | | | | | | | | | | | | |
| CFH 9/16 | CFH 9/16 S | | | | | | | | | | | | Cylindrical | | | | 680 3,025 |
| CFH 9/16 B | CFH 9/16 SB | .5625 | +0/-0.001 | .375 | +0 / -0.005 | .250 | +0.01/-0 | .63 | .031 | .25 | 1.03 | 7 178 | N/A | N/A | N/A | | |
| CCFH 9/16 | CCFH 9/16 S | 14.29 | +0/-0.03 | 9.53 | +0 / -0.13 | 6.35 | +0.03/-0 | 15.9 | .8 | 6.4 | 26.2 | | | | | | |
| CCFH 9/16 B | CCFH 9/16 SB | | | | | | | | | | | | | | | | |

Metric dimensions for reference only.
 Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.
 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**



CF, CFE, CFH

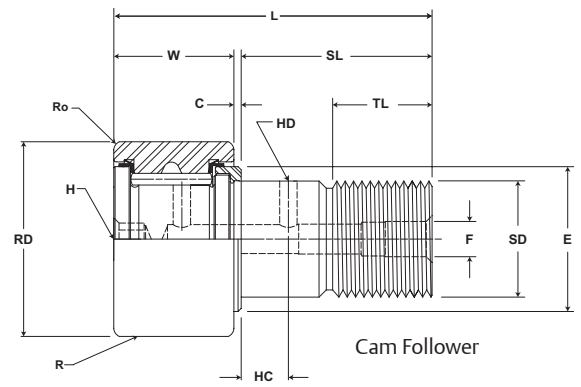
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT |
|--------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|---------------|-------------|-----------------|-------------------------|------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | |
| | | inch mm | | inch mm | | inch mm | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | in-lb Nm | | | | |
| CF 1/2 | CF 1/2 S | - | - | .125 | .410 | .016 | .1903 | +0.002/-0.003 | 10-32 | 15 2 | 11,500 | .04 .02 |
| CF 1/2 B | CF 1/2 SB | | | 3.175 | 10.41 | .40 | 4.834 | +0.005/-0.008 | | | | |
| CCF 1/2 | CCF 1/2 S | | | | | N/A | | | | | | |
| CCF 1/2 B | CCF 1/2 SB | | | | | | | | | | | |
| CFE 1/2 | CFE 1/2 S | - | - | .125 | .410 | .016 | .253 | +0.001/-0.001 | 10-32 | 15 2 | 11,500 | .04 .02 |
| CFE 1/2 B | CFE 1/2 SB | | | 3.175 | 10.41 | .40 | 6.42 | +0.025/-0.025 | | | | |
| CCFE 1/2 | CCFE 1/2 S | | | | | N/A | | | | | | |
| CCFE 1/2 B | CCFE 1/2 SB | | | | | | | | | | | |
| CFH 1/2 | CFH 1/2 S | - | - | .125 | .410 | .016 | .2503 | +0.002/-0.003 | 1/4-28 | 35 4 | 11,500 | .04 .02 |
| CFH 1/2 B | CFH 1/2 SB | | | 3.175 | 10.41 | .40 | 6.358 | +0.005/-0.008 | | | | |
| CCFH 1/2 | CCFH 1/2 S | | | | | N/A | | | | | | |
| CCFH 1/2 B | CCFH 1/2 SB | | | | | | | | | | | |
| CF 1/2 N | CF 1/2 N S | - | - | .125 | .410 | .016 | .1903 | +0.002/-0.003 | 10-32 | 15 2 | 11,500 | .04 .02 |
| CF 1/2 N B | CF 1/2 N SB | | | 3.175 | 10.41 | .40 | 4.834 | +0.005/-0.008 | | | | |
| CCF 1/2 N | CCF 1/2 N S | | | | | N/A | | | | | | |
| CCF 1/2 N B | CCF 1/2 N SB | | | | | | | | | | | |
| CFE 1/2 N | CFE 1/2 N S | - | - | .125 | .410 | .016 | .253 | +0.001/-0.001 | 10-32 | 15 2 | 11,500 | .04 .02 |
| CFE 1/2 N B | CFE 1/2 N SB | | | 3.175 | 10.41 | .40 | 6.42 | +0.025/-0.025 | | | | |
| CCFE 1/2 N | CCFE 1/2 N S | | | | | N/A | | | | | | |
| CCFE 1/2 N B | CCFE 1/2 N SB | | | | | | | | | | | |
| CF 9/16 | CF 9/16 S | - | - | .125 | .410 | .016 | .1903 | +0.002/-0.003 | 10-32 | 15 2 | 10,000 | .04 .02 |
| CF 9/16 B | CF 9/16 SB | | | 3.175 | 10.41 | .40 | 4.834 | +0.005/-0.008 | | | | |
| CCF 9/16 | CCF 9/16 S | | | | | N/A | | | | | | |
| CCF 9/16 B | CCF 9/16 SB | | | | | | | | | | | |
| CFE 9/16 | CFE 9/16 S | - | - | .125 | .410 | .016 | .253 | +0.001/-0.001 | 10-32 | 15 2 | 11,500 | .04 .02 |
| CFE 9/16 B | CFE 9/16 SB | | | 3.175 | 10.41 | .40 | 6.42 | +0.025/-0.025 | | | | |
| CCFE 9/16 | CCFE 9/16 S | | | | | N/A | | | | | | |
| CCFE 9/16 B | CCFE 9/16 SB | | | | | | | | | | | |
| CFH 9/16 | CFH 9/16 S | - | - | .125 | .410 | .016 | .2503 | +0.002/-0.003 | 1/4-28 | 35 4 | 10,000 | .04 .02 |
| CFH 9/16 B | CFH 9/16 SB | | | 3.175 | 10.41 | .40 | 6.358 | +0.005/-0.008 | | | | |
| CCFH 9/16 | CCFH 9/16 S | | | | | N/A | | | | | | |
| CCFH 9/16 B | CCFH 9/16 SB | | | | | | | | | | | |

For positive clamping, use housing thickness equal to G dimension = .010".
Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



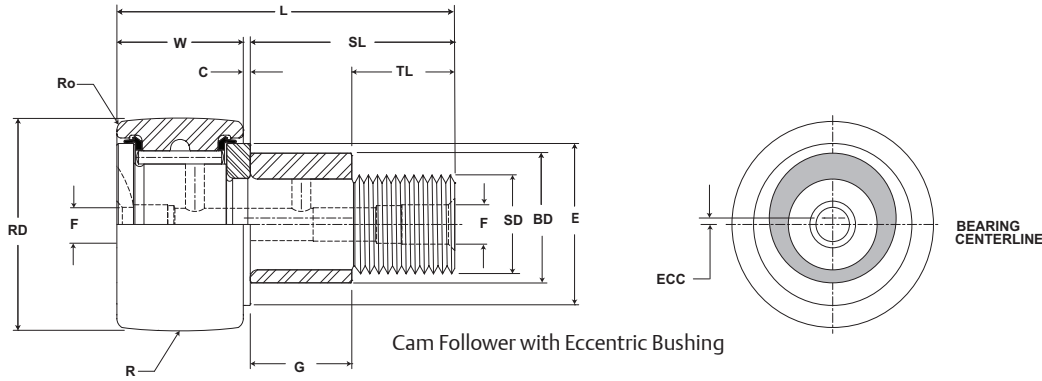
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | | | Ib/N |
| CF 5/8 | CF 5/8 S | | | | | | | | | | | Cylindrical | N/A | N/A | N/A | 955 4,248 | 1,215 5,404 | |
| CF 5/8 B | CF 5/8 SB | .625 | +0/-0.001 | .438 | +0 / -0.005 | .250 | +0.01/-0 | .75 | .031 | .31 | 1.22 | 8 203 | .015 .38 | .437 11.10 | .375 9.53 | | | |
| CCF 5/8 | CCF 5/8 S | 15.88 | +0/-0.03 | 11.11 | +0 / -0.13 | 6.35 | +0.03/-0 | 19.1 | .8 | 7.9 | 31.0 | | | | | | | |
| CCF 5/8 B | CCF 5/8 SB | | | | | | | | | | | | | | | | | |
| CFE 5/8 | CFE 5/8 S | | | | | | | | | | | Cylindrical | | | | .015 | .437 | .375 |
| CFE 5/8 B | CFE 5/8 SB | .625 | +0/-0.001 | .438 | +0 / -0.005 | .250 | +0.01/-0 | .75 | .031 | .31 | 1.22 | 8 203 | .015 .38 | .437 11.10 | .375 9.53 | | | |
| CCFE 5/8 | CCFE 5/8 S | 15.88 | +0/-0.03 | 11.11 | +0 / -0.13 | 6.35 | +0.03/-0 | 19.1 | .8 | 7.9 | 31.0 | | | | | | | |
| CCFE 5/8 B | CCFE 5/8 SB | | | | | | | | | | | | | | | | | |
| CFH 5/8 | CFH 5/8 S | | | | | | | | | | | Cylindrical | | | | N/A | N/A | N/A |
| CFH 5/8 B | CFH 5/8 SB | .625 | +0/-0.001 | .438 | +0 / -0.005 | .3125 | +0.01/-0 | .75 | .031 | .31 | 1.22 | 8 203 | .015 .38 | .437 11.10 | .375 9.53 | | | |
| CCFH 5/8 | CCFH 5/8 S | 15.88 | +0/-0.03 | 11.11 | +0 / -0.13 | 7.94 | +0.03/-0 | 19.1 | .8 | 7.9 | 31.0 | | | | | | | |
| CCFH 5/8 B | CCFH 5/8 SB | | | | | | | | | | | | | | | | | |
| CF 5/8 N | CF 5/8 N S | | | | | | | | | | | Cylindrical | | | | N/A | N/A | N/A |
| CF 5/8 N B | CF 5/8 N SB | .625 | +0/-0.001 | .406 | +0 / -0.005 | .250 | +0.01/-0 | .63 | .031 | .31 | 1.06 | 7 178 | .015 .38 | .437 11.10 | .375 9.53 | | | |
| CCF 5/8 N | CCF 5/8 N S | 15.88 | +0/-0.03 | 10.31 | +0 / -0.13 | 6.35 | +0.03/-0 | 15.9 | .8 | 7.9 | 27.0 | | | | | | | |
| CCF 5/8 N B | CCF 5/8 N SB | | | | | | | | | | | | | | | | | |
| CCFE 5/8 N | CCFE 5/8 N SB | | | | | | | | | | | | | | | | | |
| CF 11/16 | CF 11/16 S | | | | | | | | | | | Cylindrical | N/A | N/A | N/A | 955 4,248 | 1,215 5,404 | |
| CF 11/16 B | CF 11/16 SB | .688 | +0/-0.001 | .438 | +0 / -0.005 | .250 | +0.01/-0 | .75 | .031 | .31 | 1.22 | 8 203 | .015 .38 | .437 11.10 | .375 9.53 | | | |
| CCF 11/16 | CCF 11/16 S | 17.46 | +0/-0.03 | 11.11 | +0 / -0.13 | 6.35 | +0.03/-0 | 19.1 | .8 | 7.9 | 31.0 | | | | | | | |
| CCF 11/16 B | CCF 11/16 SB | | | | | | | | | | | | | | | | | |
| CFE 11/16 | CFE 11/16 S | | | | | | | | | | | Cylindrical | | | | .015 | .437 | .375 |
| CFE 11/16 B | CFE 11/16 SB | .688 | +0/-0.001 | .438 | +0 / -0.005 | .250 | +0.01/-0 | .75 | .031 | .31 | 1.22 | 8 203 | .015 .38 | .437 11.10 | .375 9.53 | | | |
| CCFE 11/16 | CCFE 11/16 S | 17.46 | +0/-0.03 | 11.11 | +0 / -0.13 | 6.35 | +0.03/-0 | 19.1 | .8 | 7.9 | 31.0 | | | | | | | |
| CCFE 11/16 B | CCFE 11/16 SB | | | | | | | | | | | | | | | | | |
| CFH 11/16 | CFH 11/16 S | | | | | | | | | | | Cylindrical | | | | N/A | N/A | N/A |
| CFH 11/16 B | CFH 11/16 SB | .688 | +0/-0.001 | .438 | +0 / -0.005 | .3125 | +0.01/-0 | .75 | .031 | .31 | 1.22 | 8 203 | .015 .38 | .437 11.10 | .375 9.53 | | | |
| CCFH 11/16 | CCFH 11/16 S | 17.46 | +0/-0.03 | 11.11 | +0 / -0.13 | 7.94 | +0.03/-0 | 19.1 | .8 | 7.9 | 31.0 | | | | | | | |
| CCFH 11/16 B | CCFH 11/16 SB | | | | | | | | | | | | | | | | | |

Metric dimensions for reference only.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFE

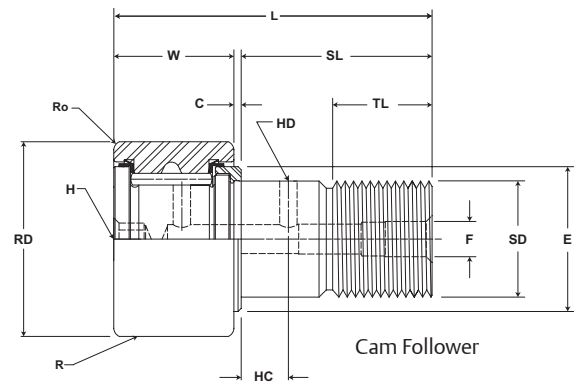
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT |
|--------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|---------------|-------------|-----------------|-------------------------|------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | |
| | | inch mm | | inch mm | | inch mm | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | in-lb Nm | | | | |
| CF 5/8 | CF 5/8 S | - | - | .125 | .462 11.73 | .016 .40 | .2503 | +0.002/-0.003 | 1/4-28 | 35 4 | 9,200 | .05 .02 |
| CF 5/8 B | CF 5/8 SB | - | - | 3.175 | | N/A | 6.358 | +0.005/-0.008 | | | | |
| CCF 5/8 | CCF 5/8 S | - | - | .125 | | .016 .40 | .378 | +0.001/-0.001 | | | | |
| CCF 5/8 B | CCF 5/8 SB | - | - | 3.175 | | N/A | 9.60 | +0.025/-0.025 | | | | |
| CFH 5/8 | CFH 5/8 S | - | - | .125 | .462 11.73 | .016 .40 | .3128 | +0.002/-0.003 | 5/16-24 | 90 10 | 9,200 | .05 .02 |
| CFH 5/8 B | CFH 5/8 SB | - | - | 3.175 | | N/A | 7.945 | +0.005/-0.008 | | | | |
| CCFH 5/8 | CCFH 5/8 S | - | - | .125 | | .016 .40 | .378 | +0.001/-0.001 | | | | |
| CCFH 5/8 B | CCFH 5/8 SB | - | - | 3.175 | | N/A | 9.60 | +0.025/-0.025 | | | | |
| CF 5/8 N | CF 5/8 N S | - | - | .125 | .462 11.73 | .016 .40 | .2503 | +0.002/-0.003 | 1/4-28 | 35 4 | 9,200 | .05 .02 |
| CF 5/8 N B | CF 5/8 N SB | - | - | 3.175 | | N/A | 6.358 | +0.005/-0.008 | | | | |
| CCF 5/8 N | CCF 5/8 N S | - | - | .125 | | .016 .40 | .378 | +0.001/-0.001 | | | | |
| CCF 5/8 N B | CCF 5/8 N SB | - | - | 3.175 | | N/A | 9.60 | +0.025/-0.025 | | | | |
| CF 11/16 | CF 11/16 S | - | - | .125 | .462 11.73 | .016 .40 | .2503 | +0.002/-0.003 | 1/4-28 | 35 4 | 8,300 | .06 .03 |
| CF 11/16 B | CF 11/16 SB | - | - | 3.175 | | N/A | 6.358 | +0.005/-0.008 | | | | |
| CCF 11/16 | CCF 11/16 S | - | - | .125 | | .016 .40 | .378 | +0.001/-0.001 | | | | |
| CCF 11/16 B | CCF 11/16 SB | - | - | 3.175 | | N/A | 9.60 | +0.025/-0.025 | | | | |
| CFH 11/16 | CFH 11/16 S | - | - | .125 | .462 11.73 | .016 .40 | .3128 | +0.002/-0.003 | 5/16-24 | 90 10 | 8,300 | .06 .03 |
| CFH 11/16 B | CFH 11/16 SB | - | - | 3.175 | | N/A | 7.945 | +0.005/-0.008 | | | | |
| CCFH 11/16 | CCFH 11/16 S | - | - | .125 | | .016 .40 | .378 | +0.001/-0.001 | | | | |
| CCFH 11/16 B | CCFH 11/16 SB | - | - | 3.175 | | N/A | 9.60 | +0.025/-0.025 | | | | |

For positive clamping, use housing thickness equal to G dimension $\pm .010$ ".
Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



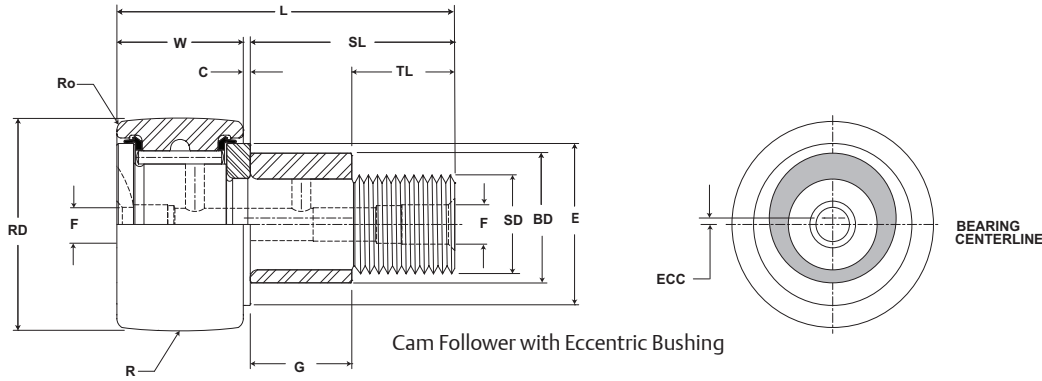
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | | | lb/N |
| CF 3/4 | CF 3/4 S | .750 19.05 | +0/-0.001 +0/-0.03 | .500 12.70 | +0 / -0.005 +0 / -0.13 | .375 9.53 | +0.01/-0 +0.03/-0 | .88 22.2 | .031 .8 | .38 9.5 | 1.41 35.7 | Cylindrical | N/A | N/A | N/A | 1,660 7,384 | 2,065 9,185 | |
| CF 3/4 B | CF 3/4 SB | | | | | | | | | | | 10 | | | | | | |
| CCF 3/4 | CCF 3/4 S | | | | | | | | | | | 254 | | | | | | |
| CCF 3/4 B | CCF 3/4 SB | | | | | | | | | | | | | | | | | |
| CFE 3/4 | CFE 3/4 S | .750 19.05 | +0/-0.001 +0/-0.03 | .500 12.70 | +0 / -0.005 +0 / -0.13 | .375 9.53 | +0.01/-0 +0.03/-0 | .88 22.2 | .031 .8 | .38 9.5 | 1.41 35.7 | Cylindrical | .015 .38 | .500 12.70 | .500 12.70 | 1,660 7,384 | 2,065 9,185 | |
| CFE 3/4 B | CFE 3/4 SB | | | | | | | | | | | 10 | | | | | | |
| CCFE 3/4 | CCFE 3/4 S | | | | | | | | | | | 254 | | | | | | |
| CCFE 3/4 B | CCFE 3/4 SB | | | | | | | | | | | | | | | | | |
| CFH 3/4 | CFH 3/4 S | .750 19.05 | +0/-0.001 +0/-0.03 | .500 12.70 | +0 / -0.005 +0 / -0.13 | .4375 11.11 | +0.01/-0 +0.03/-0 | .88 22.2 | .031 .8 | .38 9.5 | 1.41 35.7 | Cylindrical | N/A | N/A | N/A | 1,660 7,384 | 4,130 18,370 | |
| CFH 3/4 B | CFH 3/4 SB | | | | | | | | | | | 10 | | | | | | |
| CCFH 3/4 | CCFH 3/4 S | | | | | | | | | | | 254 | | | | | | |
| CCFH 3/4 B | CCFH 3/4 SB | | | | | | | | | | | | | | | | | |
| CF 7/8 | CF 7/8 S | .875 22.23 | +0/-0.001 +0/-0.03 | .500 12.70 | +0 / -0.005 +0 / -0.13 | .375 9.53 | +0.01/-0 +0.03/-0 | .88 22.2 | .031 .8 | .38 9.5 | 1.41 35.7 | Cylindrical | N/A | N/A | N/A | 1,660 7,384 | 2,065 9,185 | |
| CF 7/8 B | CF 7/8 SB | | | | | | | | | | | 10 | | | | | | |
| CCF 7/8 | CCF 7/8 S | | | | | | | | | | | 254 | | | | | | |
| CCF 7/8 B | CCF 7/8 SB | | | | | | | | | | | | | | | | | |
| CFE 7/8 | CFE 7/8 S | .875 22.23 | +0/-0.001 +0/-0.03 | .500 12.70 | +0 / -0.005 +0 / -0.13 | .375 9.53 | +0.01/-0 +0.03/-0 | .88 22.2 | .031 .8 | .38 9.5 | 1.41 35.7 | Cylindrical | .015 .38 | .500 12.70 | .500 12.70 | 1,660 7,384 | 2,065 9,185 | |
| CFE 7/8 B | CFE 7/8 SB | | | | | | | | | | | 10 | | | | | | |
| CCFE 7/8 | CCFE 7/8 S | | | | | | | | | | | 254 | | | | | | |
| CCFE 7/8 B | CCFE 7/8 SB | | | | | | | | | | | | | | | | | |
| CFH 7/8 | CFH 7/8 S | .875 22.23 | +0/-0.001 +0/-0.03 | .500 12.70 | +0 / -0.005 +0 / -0.13 | .4375 11.11 | +0.01/-0 +0.03/-0 | .88 22.2 | .031 .8 | .38 9.5 | 1.41 35.7 | Cylindrical | N/A | N/A | N/A | 1,660 7,384 | 4,130 18,370 | |
| CFH 7/8 B | CFH 7/8 SB | | | | | | | | | | | 10 | | | | | | |
| CCFH 7/8 | CCFH 7/8 S | | | | | | | | | | | 254 | | | | | | |
| CCFH 7/8 B | CCFH 7/8 SB | | | | | | | | | | | | | | | | | |

Metric dimensions for reference only.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFH

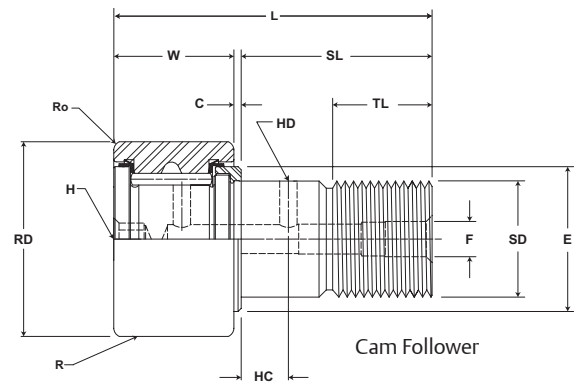
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT |
|------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|----------------------------------|-------------|-----------------|-------------------------|------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | |
| | | inch mm | | inch mm | | inch mm | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | | |
| CF 3/4 | CF 3/4 S | .25 6 | .0938 2 | .1875 5 | .609 15.48 | .016 .40 | .3753 9.533 | +.0002/- .0003 +.0005/- .0008 | 3/8-24 | 95 11 | 6,400 | .07 .03 |
| CF 3/4 B | CF 3/4 SB | | | | | N/A | | | | | | |
| CCF 3/4 | CCF 3/4 S | | | | | N/A | | | | | | |
| CCF 3/4 B | CCF 3/4 SB | | | | | N/A | | | | | | |
| CFE 3/4 | CFE 3/4 S | .25 6 | .0938 2 | .1875 5 | .609 15.48 | .016 .40 | .503 12.77 | +.001/- .001 +.025/- .025 | 7/16-20 | 250 28 | 6,400 | .08 .04 |
| CFE 3/4 B | CFE 3/4 SB | | | | | N/A | | | | | | |
| CCFE 3/4 | CCFE 3/4 S | | | | | N/A | | | | | | |
| CCFE 3/4 B | CCFE 3/4 SB | | | | | N/A | | | | | | |
| CFH 3/4 | CFH 3/4 S | .25 6 | .0938 2 | .1875 5 | .609 15.48 | .016 .40 | .4378 11.120 | +.0002/- .0003 +.0005/- .0008 | 7/16-20 | 250 28 | 6,400 | .08 .04 |
| CFH 3/4 B | CFH 3/4 SB | | | | | N/A | | | | | | |
| CCFH 3/4 | CCFH 3/4 S | | | | | N/A | | | | | | |
| CCFH 3/4 B | CCFH 3/4 SB | | | | | N/A | | | | | | |
| CF 7/8 | CF 7/8 S | .25 6 | .0938 2 | .1875 5 | .609 15.48 | .016 .40 | .3753 9.533 | +.0002/- .0003 +.0005/- .0008 | 3/8-24 | 95 11 | 5,400 | .09 .04 |
| CF 7/8 B | CF 7/8 SB | | | | | N/A | | | | | | |
| CCF 7/8 | CCF 7/8 S | | | | | N/A | | | | | | |
| CCF 7/8 B | CCF 7/8 SB | | | | | N/A | | | | | | |
| CFE 7/8 | CFE 7/8 S | .25 6 | .0938 2 | .1875 5 | .609 15.48 | .016 .40 | .503 12.77 | +.001/- .001 +.025/- .025 | 7/16-20 | 250 28 | 5,400 | .11 .05 |
| CFE 7/8 B | CFE 7/8 SB | | | | | N/A | | | | | | |
| CCFE 7/8 | CCFE 7/8 S | | | | | N/A | | | | | | |
| CCFE 7/8 B | CCFE 7/8 SB | | | | | N/A | | | | | | |
| CFH 7/8 | CFH 7/8 S | .25 6 | .0938 2 | .1875 5 | .609 15.48 | .016 .40 | .4378 11.120 | +.0002/- .0003 +.0005/- .0008 | 7/16-20 | 250 28 | 5,400 | .11 .05 |
| CFH 7/8 B | CFH 7/8 SB | | | | | N/A | | | | | | |
| CCFH 7/8 | CCFH 7/8 S | | | | | N/A | | | | | | |
| CCFH 7/8 B | CCFH 7/8 SB | | | | | N/A | | | | | | |

For positive clamping, use housing thickness equal to G dimension $\pm .010$ ".
Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



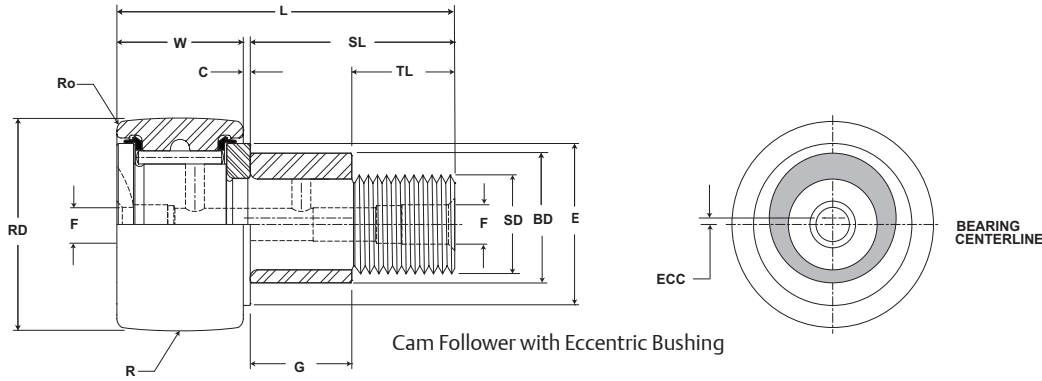
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | Ib/N | |
| CF 1 | CF 1 S | | | | | | | | | | | Cylindrical | | | | 2,225 9,897 | 3,060 13,611 |
| CF 1 B | CF 1 SB | 1.000 | +0/-0.001 | .625 | +0 / -.005 | .4375 | +0.01/-0 | 1.00 | .031 | .50 | 1.66 | 12 305 | N/A | N/A | N/A | | |
| CCF 1 | CCF 1 S | 25.40 | +0/-0.03 | 15.88 | +0 / -.13 | 11.11 | +0.3/-0 | 25.4 | .8 | 12.7 | 42.1 | | | | | | |
| CCF 1 B | CCF 1 SB | | | | | | | | | | | | | | | | |
| CFE 1 | CFE 1 S | | | | | | | | | | | Cylindrical | | | | 2,225 9,897 | 6,120 27,222 |
| CFE 1 B | CFE 1 SB | 1.000 | +0/-0.001 | .625 | +0 / -.005 | .4375 | +0.01/-0 | 1.00 | .031 | .50 | 1.66 | 12 305 | .030 | .500 | .625 | | |
| CCFE 1 | CCFE 1 S | 25.40 | +0/-0.03 | 15.88 | +0 / -.13 | 11.11 | +0.3/-0 | 25.4 | .8 | 12.7 | 42.1 | | | 12.70 | 15.88 | | |
| CCFE 1 B | CCFE 1 SB | | | | | | | | | | | | | | | | |
| CFH 1 | CFH 1 S | | | | | | | | | | | Cylindrical | | | | 2,225 9,897 | 6,120 27,222 |
| CFH 1 B | CFH 1 SB | 1.000 | +0/-0.001 | .625 | +0 / -.005 | .625 | +0.01/-0 | 1.00 | .031 | .50 | 1.66 | 12 305 | N/A | N/A | N/A | | |
| CCFH 1 | CCFH 1 S | 25.40 | +0/-0.03 | 15.88 | +0 / -.13 | 15.88 | +0.3/-0 | 25.4 | .8 | 12.7 | 42.1 | | | | | | |
| CCFH 1 B | CCFH 1 SB | | | | | | | | | | | | | | | | |
| CF 1 1/8 | CF 1 1/8 S | | | | | | | | | | | Cylindrical | | | | 2,225 9,897 | 3,060 13,611 |
| CF 1 1/8 B | CF 1 1/8 SB | 1.125 | +0/-0.001 | .625 | +0 / -.005 | .4375 | +0.01/-0 | 1.00 | .031 | .50 | .031 | 12 305 | N/A | N/A | N/A | | |
| CCF 1 1/8 | CCF 1 1/8 S | 28.58 | +0/-0.03 | 15.88 | +0 / -.13 | 11.11 | +0.3/-0 | 25.4 | .8 | 12.7 | 42.1 | | | | | | |
| CCF 1 1/8 B | CCF 1 1/8 SB | | | | | | | | | | | | | | | | |
| CFE 1 1/8 | CFE 1 1/8 S | | | | | | | | | | | Cylindrical | | | | 2,225 9,897 | 6,120 27,222 |
| CFE 1 1/8 B | CFE 1 1/8 SB | 1.125 | +0/-0.001 | .625 | +0 / -.005 | .4375 | +0.01/-0 | 1.00 | .031 | .50 | 1.66 | 12 305 | .030 | .500 | .625 | | |
| CCFE 1 1/8 | CCFE 1 1/8 S | 28.58 | +0/-0.03 | 15.88 | +0 / -.13 | 11.11 | +0.3/-0 | 25.4 | .8 | 12.7 | 42.1 | | | 12.70 | 15.88 | | |
| CCFE 1 1/8 B | CCFE 1 1/8 SB | | | | | | | | | | | | | | | | |
| CFH 1 1/8 | CFH 1 1/8 S | | | | | | | | | | | Cylindrical | | | | 2,225 9,897 | 6,120 27,222 |
| CFH 1 1/8 B | CFH 1 1/8 SB | 1.125 | +0/-0.001 | .625 | +0 / -.005 | .625 | +0.01/-0 | 1.00 | .031 | .50 | 1.66 | 12 305 | N/A | N/A | N/A | | |
| CCFH 1 1/8 | CCFH 1 1/8 S | 28.58 | +0/-0.03 | 15.88 | +0 / -.13 | 15.88 | +0.3/-0 | 25.4 | .8 | 12.7 | 42.1 | | | | | | |
| CCFH 1 1/8 B | CCFH 1 1/8 SB | | | | | | | | | | | | | | | | |

Metric dimensions for reference only.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFH

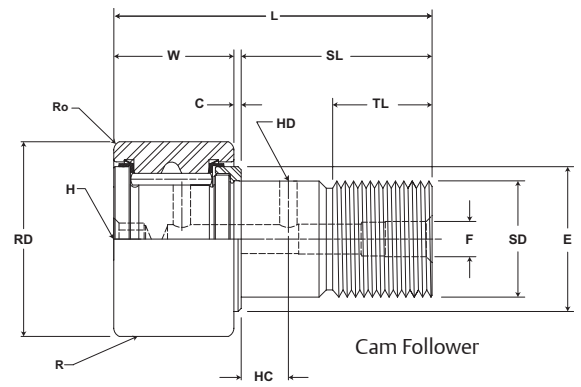
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT |
|--------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|----------------------------------|-------------|-----------------|-------------------------|------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | |
| | | inch mm | | inch mm | | inch mm | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | | |
| CF 1 | CF 1 S | .25 6 | .0938 2 | .1875 5 | .781 19.84 | .031 .79 | .4378 11.120 | +.0002/- .0003 +.0005/- .0008 | 7/16-20 | 250 28 | 4,800 | .17 .08 |
| CF 1 B | CF 1 SB | | | | | N/A | | | | | | |
| CCF 1 | CCF 1 S | | | | | N/A | | | | | | |
| CCF 1 B | CCF 1 SB | | | | | N/A | | | | | | |
| CFE 1 | CFE 1 S | .25 6 | .0938 2 | .1875 5 | .781 19.84 | .031 .79 | .628 15.95 | +.001/- .001 +.025/- .025 | 7/16-20 | 250 28 | 4,800 | .19 .09 |
| CFE 1 B | CFE 1 SB | | | | | N/A | | | | | | |
| CCFE 1 | CCFE 1 S | | | | | N/A | | | | | | |
| CCFE 1 B | CCFE 1 SB | | | | | N/A | | | | | | |
| CFH 1 | CFH 1 S | .25 6 | .0938 2 | .1875 5 | .781 19.84 | .031 .79 | .6253 15.883 | +.0002/- .0003 +.0005/- .0008 | 5/8-18 | 650 73 | 4,800 | .20 .09 |
| CFH 1 B | CFH 1 SB | | | | | N/A | | | | | | |
| CCFH 1 | CCFH 1 S | | | | | N/A | | | | | | |
| CCFH 1 B | CCFH 1 SB | | | | | N/A | | | | | | |
| CF 1 1/8 | CF 1 1/8 S | .25 6 | .0938 2 | .1875 5 | .781 19.84 | .031 .79 | .4378 11.120 | +.0002/- .0003 +.0005/- .0008 | 7/16-20 | 250 28 | 3,400 | .19 .09 |
| CF 1 1/8 B | CF 1 1/8 SB | | | | | N/A | | | | | | |
| CCF 1 1/8 | CCF 1 1/8 S | | | | | N/A | | | | | | |
| CCF 1 1/8 B | CCF 1 1/8 SB | | | | | N/A | | | | | | |
| CFE 1 1/8 | CFE 1 1/8 S | .25 6 | .0938 2 | .1875 5 | .781 19.84 | .031 .79 | .628 15.95 | +.001/- .001 +.025/- .025 | 7/16-20 | 250 28 | 3,400 | .24 .11 |
| CFE 1 1/8 B | CFE 1 1/8 SB | | | | | N/A | | | | | | |
| CCFE 1 1/8 | CCFE 1 1/8 S | | | | | N/A | | | | | | |
| CCFE 1 1/8 B | CCFE 1 1/8 SB | | | | | N/A | | | | | | |
| CFH 1 1/8 | CFH 1 1/8 S | .25 6 | .0938 2 | .1875 5 | .781 19.84 | .031 .79 | .6253 15.883 | +.0002/- .0003 +.0005/- .0008 | 5/8-18 | 650 73 | 3,400 | .24 .11 |
| CFH 1 1/8 B | CFH 1 1/8 SB | | | | | N/A | | | | | | |
| CCFH 1 1/8 | CCFH 1 1/8 S | | | | | N/A | | | | | | |
| CCFH 1 1/8 B | CCFH 1 1/8 SB | | | | | N/A | | | | | | |

For positive clamping, use housing thickness equal to G dimension $\pm .010$ ".
Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

MCGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



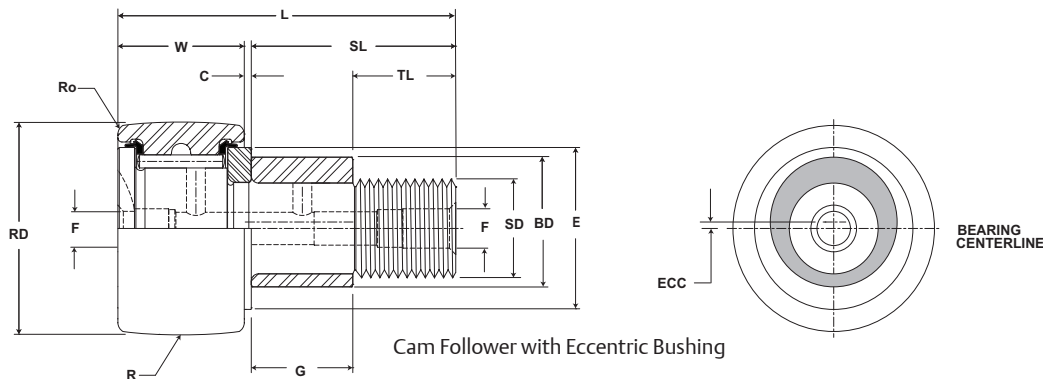
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | | | lb/N |
| CF 1 1/4 | CF 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 | +0.01/-0 +0.03/-0 | 1.25 31.8 | .031 .8 | .63 15.9 | 2.03 51.6 | Cylindrical | N/A | N/A | N/A | 3,930 17,481 | 4,250 18,904 | |
| CF 1 1/4 B | CF 1 1/4 SB | | | | | | | | | | | 14 | | | | | | |
| CCF 1 1/4 | CCF 1 1/4 S | | | | | | | | | | | 356 | | | | | | |
| CCF 1 1/4 B | CCF 1 1/4 SB | | | | | | | | | | | | | | | | | |
| CFE 1 1/4 | CFE 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 | +0.01/-0 +0.03/-0 | 1.25 31.8 | .031 .8 | .63 15.9 | 2.03 51.6 | Cylindrical | .030 .76 | .625 15.88 | .687 17.45 | 3,930 17,481 | 4,250 18,904 | |
| CFE 1 1/4 B | CFE 1 1/4 SB | | | | | | | | | | | 14 | | | | | | |
| CCFE 1 1/4 | CCFE 1 1/4 S | | | | | | | | | | | 356 | | | | | | |
| CCFE 1 1/4 B | CCFE 1 1/4 SB | | | | | | | | | | | | | | | | | |
| CFH 1 1/4 | CFH 1 1/4 S | 1.250 31.75 | +0/-0.001 +0/-0.03 | .750 19.05 | +0 / -0.005 +0 / -0.13 | .750 19.05 | +0.01/-0 +0.03/-0 | 1.25 31.8 | .031 .8 | .63 15.9 | 2.03 51.6 | Cylindrical | N/A | N/A | N/A | 3,930 17,481 | 8,500 37,808 | |
| CFH 1 1/4 B | CFH 1 1/4 SB | | | | | | | | | | | 14 | | | | | | |
| CCFH 1 1/4 | CCFH 1 1/4 S | | | | | | | | | | | 356 | | | | | | |
| CCFH 1 1/4 B | CCFH 1 1/4 SB | | | | | | | | | | | | | | | | | |
| CF 1 3/8 | CF 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 | +0.01/-0 +0.03/-0 | 1.25 31.8 | .031 .8 | .63 15.9 | 2.03 51.6 | Cylindrical | N/A | N/A | N/A | 3,930 17,481 | 4,250 18,904 | |
| CF 1 3/8 B | CF 1 3/8 SB | | | | | | | | | | | 14 | | | | | | |
| CCF 1 3/8 | CCF 1 3/8 S | | | | | | | | | | | 356 | | | | | | |
| CCF 1 3/8 B | CCF 1 3/8 SB | | | | | | | | | | | | | | | | | |
| CFE 1 3/8 | CFE 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 | +0.01/-0 +0.03/-0 | 1.25 31.8 | .031 .8 | .63 15.9 | 2.03 51.6 | Cylindrical | .030 .76 | .625 15.88 | .687 17.45 | 3,930 17,481 | 4,250 18,904 | |
| CFE 1 3/8 B | CFE 1 3/8 SB | | | | | | | | | | | 14 | | | | | | |
| CCFE 1 3/8 | CCFE 1 3/8 S | | | | | | | | | | | 356 | | | | | | |
| CCFE 1 3/8 B | CCFE 1 3/8 SB | | | | | | | | | | | | | | | | | |
| CFH 1 3/8 | CFH 1 3/8 S | 1.375 34.93 | +0/-0.001 +0/-0.03 | .750 19.05 | +0 / -0.005 +0 / -0.13 | .750 19.05 | +0.01/-0 +0.03/-0 | 1.25 31.8 | .031 .8 | .63 15.9 | 2.03 51.6 | Cylindrical | N/A | N/A | N/A | 3,930 17,481 | 8,500 37,808 | |
| CFH 1 3/8 B | CFH 1 3/8 SB | | | | | | | | | | | 14 | | | | | | |
| CCFH 1 3/8 | CCFH 1 3/8 S | | | | | | | | | | | 356 | | | | | | |
| CCFH 1 3/8 B | CCFH 1 3/8 SB | | | | | | | | | | | | | | | | | |

Metric dimensions for reference only.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFH

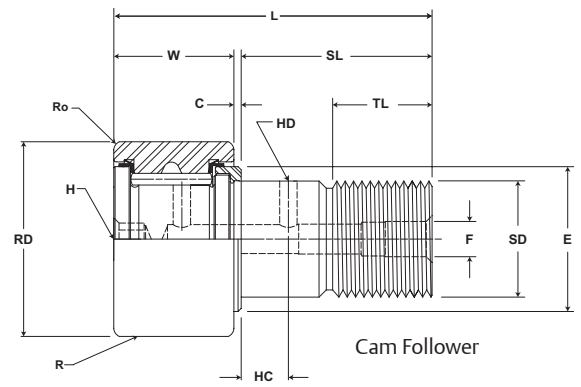
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT | | | | | | | | |
|--------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|----------------------------------|---------------|-----------------|----------------------------------|----------------------------------|----------------------------------|--------------|---------------|------------------------------|--------|-----------|-------|------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | | | | | | | | | |
| | | inch mm | | inch mm | | inch mm | | | | | | | | | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | | | | | | | | | | |
| CF 1 1/4 | CF 1 1/4 S | .3125 8 | .0938 2 | .1875 5 | .984 25.00 | .031 .79 | .5003 12.708 | +.0002/- .0003 +.0005/- .0008 | 1/2-20 | 350 40 | 3,100 | .30 .14 | | | | | | | | |
| CF 1 1/4 B | CF 1 1/4 SB | | | | | N/A | | | | | | | | | | | | | | |
| CCF 1 1/4 | CCF 1 1/4 S | | | | | .3125 8 | .0938 2 | .1875 5 | | | | | .984 25.00 | .031 .79 | .690 17.52 | +.001/- .001 +.025/- .025 | | | | |
| CCF 1 1/4 B | CCF 1 1/4 SB | | | | | | | | | | | | | N/A | | | | | | |
| CFE 1 1/4 | CFE 1 1/4 S | .3125 8 | .0938 2 | .1875 5 | .984 25.00 | | | | .031 .79 | .7503 19.058 | +.0002/- .0003 +.0005/- .0008 | 3/4-16 | | 1,250 141 | 3,100 | .38 .17 | | | | |
| CFE 1 1/4 B | CFE 1 1/4 SB | | | | | | | | N/A | | | | | | | | | | | |
| CCFH 1 1/4 | CCFH 1 1/4 S | | | | | .3125 8 | .0938 2 | .1875 5 | .984 25.00 | .047 1.19 | .5003 12.708 | | +.0002/- .0003 +.0005/- .0008 | | | | 1/2-20 | 350 40 | 2,800 | .35 .16 |
| CCFH 1 1/4 B | CCFH 1 1/4 SB | | | | | | | | | N/A | | | | | | | | | | |
| CF 1 3/8 | CF 1 3/8 S | .3125 8 | .0938 2 | .1875 5 | .984 25.00 | | | | | .047 1.19 | .690 17.52 | +.001/- .001 +.025/- .025 | 3/4-16 | 1,250 141 | 2,800 | .44 .19 | | | | |
| CF 1 3/8 B | CF 1 3/8 SB | | | | | | | | | N/A | | | | | | | | | | |
| CCF 1 3/8 | CCF 1 3/8 S | | | | | .3125 8 | .0938 2 | .1875 5 | .984 25.00 | .047 1.19 | .7503 19.058 | +.0002/- .0003 +.0005/- .0008 | | | | | | | | |
| CCF 1 3/8 B | CCF 1 3/8 SB | | | | | | | | | N/A | | | | | | | | | | |

For positive clamping, use housing thickness equal to G dimension $\pm .010$ ".
Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



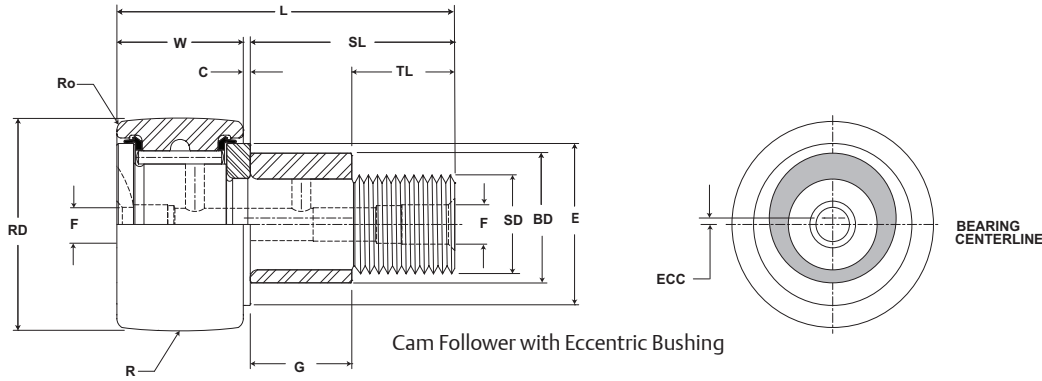
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | | | lb/N |
| CF 1 1/2 | CF 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 | +0.01/-0 +0.03/-0 | 1.50 38.1 | .031 .8 | .75 19.1 | 2.41 61.1 | Cylindrical | N/A | N/A | N/A | 4,840 21,528 | 5,640 25,087 | |
| CF 1 1/2 B | CF 1 1/2 SB | | | | | | | | | | | 20 | | | | | | |
| CCF 1 1/2 | CCF 1 1/2 S | | | | | | | | | | | 508 | | | | | | |
| CCF 1 1/2 B | CCF 1 1/2 SB | | | | | | | | | | | | | | | | | |
| CFE 1 1/2 | CFE 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 | +0.01/-0 +0.03/-0 | 1.50 38.1 | .031 .8 | .75 19.1 | 2.41 61.1 | Cylindrical | .030 .76 | .750 19.05 | .875 22.23 | 4,840 21,528 | 5,640 25,087 | |
| CFE 1 1/2 B | CFE 1 1/2 SB | | | | | | | | | | | 20 | | | | | | |
| CCFE 1 1/2 | CCFE 1 1/2 S | | | | | | | | | | | 508 | | | | | | |
| CCFE 1 1/2 B | CCFE 1 1/2 SB | | | | | | | | | | | | | | | | | |
| CFH 1 1/2 | CFH 1 1/2 S | 1.500 38.10 | +0/-0.001 +0/-0.03 | .875 22.23 | +0 / -0.005 +0 / -0.13 | .875 22.23 | +0.01/-0 +0.03/-0 | 1.50 38.1 | .031 .8 | .75 19.1 | 2.41 61.1 | Cylindrical | N/A | N/A | N/A | 4,840 21,528 | 11,280 50,173 | |
| CFH 1 1/2 B | CFH 1 1/2 SB | | | | | | | | | | | 20 | | | | | | |
| CCFH 1 1/2 | CCFH 1 1/2 S | | | | | | | | | | | 508 | | | | | | |
| CCFH 1 1/2 B | CCFH 1 1/2 SB | | | | | | | | | | | | | | | | | |
| CF 1 5/8 | CF 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 | +0.01/-0 +0.03/-0 | 1.50 38.1 | .031 .8 | .75 19.1 | 2.41 61.1 | Cylindrical | N/A | N/A | N/A | 4,840 21,528 | 5,640 25,087 | |
| CF 1 5/8 B | CF 1 5/8 SB | | | | | | | | | | | 20 | | | | | | |
| CCF 1 5/8 | CCF 1 5/8 S | | | | | | | | | | | 508 | | | | | | |
| CCF 1 5/8 B | CCF 1 5/8 SB | | | | | | | | | | | | | | | | | |
| CFE 1 5/8 | CFE 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 | +0.01/-0 +0.03/-0 | 1.50 38.1 | .031 .8 | .75 19.1 | 2.41 61.1 | Cylindrical | .030 .76 | .750 19.05 | .875 22.23 | 4,840 21,528 | 5,640 25,087 | |
| CFE 1 5/8 B | CFE 1 5/8 SB | | | | | | | | | | | 20 | | | | | | |
| CCFE 1 5/8 | CCFE 1 5/8 S | | | | | | | | | | | 508 | | | | | | |
| CCFE 1 5/8 B | CCFE 1 5/8 SB | | | | | | | | | | | | | | | | | |
| CFH 1 5/8 | CFH 1 5/8 S | 1.625 41.28 | +0/-0.001 +0/-0.03 | .875 22.23 | +0 / -0.005 +0 / -0.13 | .875 22.23 | +0.01/-0 +0.03/-0 | 1.50 38.1 | .031 .8 | .75 19.1 | 2.41 61.1 | Cylindrical | N/A | N/A | N/A | 4,840 21,528 | 11,280 50,173 | |
| CFH 1 5/8 B | CFH 1 5/8 SB | | | | | | | | | | | 20 | | | | | | |
| CCFH 1 5/8 | CCFH 1 5/8 S | | | | | | | | | | | 508 | | | | | | |
| CCFH 1 5/8 B | CCFH 1 5/8 SB | | | | | | | | | | | | | | | | | |

Metric dimensions for reference only.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFH

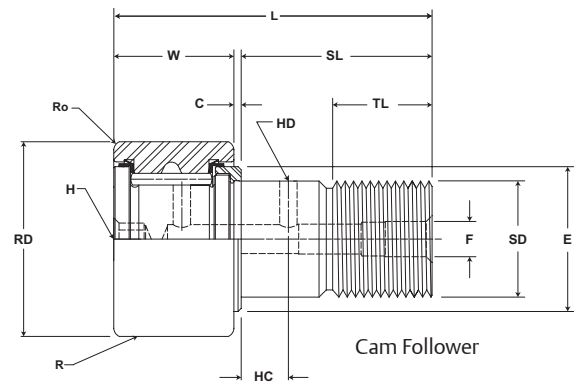
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT | | | | | | | | |
|--------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|----------------------------------|----------------|-----------------|----------------------------------|----------------------------------|----------------------------------|--------------|---------------|------------------------------|--------|-----------|-------|------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | | | | | | | | | |
| | | inch mm | | inch mm | | inch mm | | | | | | | | | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | | | | | | | | | | |
| CF 1 1/2 | CF 1 1/2 S | .375 10 | .0938 2 | .1875 5 | 1.094 27.78 | .063 1.59 | .6253 15.883 | +.0002/- .0003 +.0005/- .0008 | 5/8-18 | 650 73 | 2,500 | .53 .24 | | | | | | | | |
| CF 1 1/2 B | CF 1 1/2 SB | | | | | N/A | | | | | | | | | | | | | | |
| CCF 1 1/2 | CCF 1 1/2 S | | | | | .375 10 | .0938 2 | .1875 5 | | | | | 1.094 27.78 | .063 1.59 | .878 22.30 | +.001/- .001 +.025/- .025 | | | | |
| CCF 1 1/2 B | CCF 1 1/2 SB | | | | | | | | | | | | | N/A | | | | | | |
| CFE 1 1/2 | CFE 1 1/2 S | .375 10 | .0938 2 | .1875 5 | 1.094 27.78 | | | | .063 1.59 | .8753 22.233 | +.0002/- .0003 +.0005/- .0008 | 7/8-14 | | 1,500 170 | 2,500 | .69 .31 | | | | |
| CFE 1 1/2 B | CFE 1 1/2 SB | | | | | | | | N/A | | | | | | | | | | | |
| CCFE 1 1/2 | CCFE 1 1/2 S | | | | | .375 10 | .0938 2 | .1875 5 | 1.094 27.78 | .063 1.59 | .6253 15.883 | | +.0002/- .0003 +.0005/- .0008 | | | | 5/8-18 | 650 73 | 2,350 | .60 .27 |
| CCFE 1 1/2 B | CCFE 1 1/2 SB | | | | | | | | | N/A | | | | | | | | | | |
| CFH 1 1/2 | CFH 1 1/2 S | .375 10 | .0938 2 | .1875 5 | 1.094 27.78 | | | | | .063 1.59 | .8753 22.233 | +.0002/- .0003 +.0005/- .0008 | 7/8-14 | 1,500 170 | 2,350 | .75 .34 | | | | |
| CFH 1 1/2 B | CFH 1 1/2 SB | | | | | | | | | N/A | | | | | | | | | | |
| CCFH 1 1/2 | CCFH 1 1/2 S | | | | | .375 10 | .0938 2 | .1875 5 | 1.094 27.78 | .063 1.59 | .8753 22.233 | +.0002/- .0003 +.0005/- .0008 | | | | | | | | |
| CCFH 1 1/2 B | CCFH 1 1/2 SB | | | | | | | | | N/A | | | | | | | | | | |

For positive clamping, use housing thickness equal to G dimension $\pm .010$ ".
Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



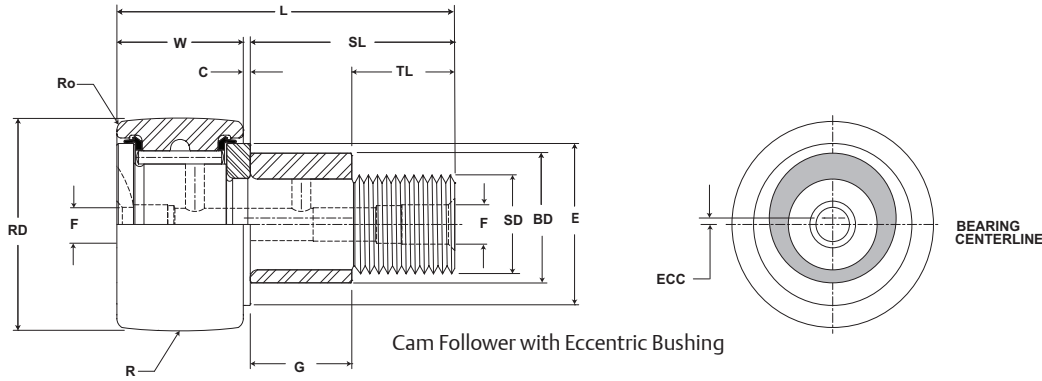
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | | | lb/N |
| CF 1 3/4 | CF 1 3/4 S | 1.750 44.45 | +0/-0.001 +0/-0.03 | 1.000 25.40 | +0 / -0.005 +0 / -0.13 | .750 19.05 | +0.01/-0 +0.03/-0 | 1.75 44.5 | .031 .8 | .88 22.2 | 2.78 70.6 | Cylindrical | N/A | N/A | N/A | 6,385 28,400 | 7,920 35,228 | |
| CF 1 3/4 B | CF 1 3/4 SB | | | | | | | | | | | 20 | | | | | | |
| CCF 1 3/4 | CCF 1 3/4 S | | | | | | | | | | | 508 | | | | | | |
| CCF 1 3/4 B | CCF 1 3/4 SB | | | | | | | | | | | | | | | | | |
| CFE 1 3/4 | CFE 1 3/4 S | 1.750 44.45 | +0/-0.001 +0/-0.03 | 1.000 25.40 | +0 / -0.005 +0 / -0.13 | .750 19.05 | +0.01/-0 +0.03/-0 | 1.75 44.5 | .031 .8 | .88 22.2 | 2.78 70.6 | Cylindrical | .030 .76 | .875 22.23 | 1.000 25.40 | 6,385 28,400 | 7,920 35,228 | |
| CFE 1 3/4 B | CFE 1 3/4 SB | | | | | | | | | | | 20 | | | | | | |
| CCFE 1 3/4 | CCFE 1 3/4 S | | | | | | | | | | | 508 | | | | | | |
| CCFE 1 3/4 B | CCFE 1 3/4 SB | | | | | | | | | | | | | | | | | |
| CFH 1 3/4 | CFH 1 3/4 S | 1.750 44.45 | +0/-0.001 +0/-0.03 | 1.000 25.40 | +0 / -0.005 +0 / -0.13 | 1.000 25.40 | +0.01/-0 +0.03/-0 | 1.75 44.5 | .031 .8 | .88 22.2 | 2.78 70.6 | Cylindrical | N/A | N/A | N/A | 6,385 28,400 | 15,840 70,456 | |
| CFH 1 3/4 B | CFH 1 3/4 SB | | | | | | | | | | | 20 | | | | | | |
| CCFH 1 3/4 | CCFH 1 3/4 S | | | | | | | | | | | 508 | | | | | | |
| CCFH 1 3/4 B | CCFH 1 3/4 SB | | | | | | | | | | | | | | | | | |
| CF 1 7/8 | CF 1 7/8 S | 1.875 47.63 | +0/-0.001 +0/-0.03 | 1.000 25.40 | +0 / -0.005 +0 / -0.13 | .750 19.05 | +0.01/-0 +0.03/-0 | 1.75 44.5 | .031 .8 | .88 22.2 | 2.78 70.6 | Cylindrical | N/A | N/A | N/A | 6,385 28,400 | 7,920 35,228 | |
| CF 1 7/8 B | CF 1 7/8 SB | | | | | | | | | | | 20 | | | | | | |
| CCF 1 7/8 | CCF 1 7/8 S | | | | | | | | | | | 508 | | | | | | |
| CCF 1 7/8 B | CCF 1 7/8 SB | | | | | | | | | | | | | | | | | |
| CFE 1 7/8 | CFE 1 7/8 S | 1.875 47.63 | +0/-0.001 +0/-0.03 | 1.000 25.40 | +0 / -0.005 +0 / -0.13 | .750 19.05 | +0.01/-0 +0.03/-0 | 1.75 44.5 | .031 .8 | .88 22.2 | 2.78 70.6 | Cylindrical | .030 .76 | .875 22.24 | 1.000 25.40 | 6,385 28,400 | 7,920 35,228 | |
| CFE 1 7/8 B | CFE 1 7/8 SB | | | | | | | | | | | 20 | | | | | | |
| CCFE 1 7/8 | CCFE 1 7/8 S | | | | | | | | | | | 508 | | | | | | |
| CCFE 1 7/8 B | CCFE 1 7/8 SB | | | | | | | | | | | | | | | | | |
| CFH 1 7/8 | CFH 1 7/8 S | 1.875 47.63 | +0/-0.001 +0/-0.03 | 1.000 25.40 | +0 / -0.005 +0 / -0.13 | 1.000 25.40 | +0.01/-0 +0.03/-0 | 1.75 44.5 | .031 .8 | .88 22.2 | 2.78 70.6 | Cylindrical | N/A | N/A | N/A | 6,385 28,400 | 15,840 70,456 | |
| CFH 1 7/8 B | CFH 1 7/8 SB | | | | | | | | | | | 20 | | | | | | |
| CCFH 1 7/8 | CCFH 1 7/8 S | | | | | | | | | | | 508 | | | | | | |
| CCFH 1 7/8 B | CCFH 1 7/8 SB | | | | | | | | | | | | | | | | | |

Metric dimensions for reference only.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFH

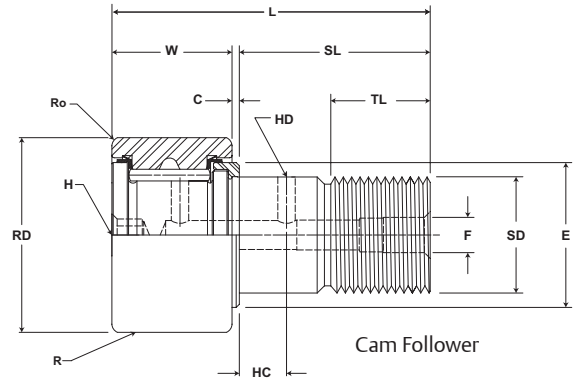
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT |
|--------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|----------------------------------|-------------|-----------------|-------------------------|-------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | | |
| CF 1 3/4 | CF 1 3/4 S | .4375 11 | .125 3 | .1875 5 | 1.250 31.75 | .063 1.59 | .7503 19.058 | +.0002/- .0003 +.0005/- .0008 | 3/4-16 | 1,250 141 | 2,200 | .84 .38 |
| CF 1 3/4 B | CF 1 3/4 SB | | | | | N/A | | | | | | |
| CCF 1 3/4 | CCF 1 3/4 S | | | | | | | | | | | |
| CCF 1 3/4 B | CCF 1 3/4 SB | | | | | | | | | | | |
| CFE 1 3/4 | CFE 1 3/4 S | .4375 11 | .125 3 | .1875 5 | 1.250 31.75 | .063 1.59 | 1.003 25.47 | +.001/- .001 +.025/- .025 | 3/4-16 | 1,250 141 | 2,200 | .84 .38 |
| CFE 1 3/4 B | CFE 1 3/4 SB | | | | | N/A | | | | | | |
| CCFE 1 3/4 | CCFE 1 3/4 S | | | | | | | | | | | |
| CCFE 1 3/4 B | CCFE 1 3/4 SB | | | | | | | | | | | |
| CFH 1 3/4 | CFH 1 3/4 S | .4375 11 | .125 3 | .1875 5 | 1.250 31.75 | .063 1.59 | 1.0003 25.408 | +.0002/- .0003 +.0005/- .0008 | 1-14 | 2,250 254 | 2,200 | 1.00 .45 |
| CFH 1 3/4 B | CFH 1 3/4 SB | | | | | N/A | | | | | | |
| CCFH 1 3/4 | CCFH 1 3/4 S | | | | | | | | | | | |
| CCFH 1 3/4 B | CCFH 1 3/4 SB | | | | | | | | | | | |
| CF 1 7/8 | CF 1 7/8 S | .4375 11 | .125 3 | .1875 5 | 1.250 31.75 | .063 1.59 | .7503 19.058 | +.0002/- .0003 +.0005/- .0008 | 3/4-16 | 1,250 141 | 2,000 | .95 .43 |
| CF 1 7/8 B | CF 1 7/8 SB | | | | | N/A | | | | | | |
| CCF 1 7/8 | CCF 1 7/8 S | | | | | | | | | | | |
| CCF 1 7/8 B | CCF 1 7/8 SB | | | | | | | | | | | |
| CFE 1 7/8 | CFE 1 7/8 S | .4375 11 | .125 3 | .1875 5 | 1.250 31.75 | .063 1.59 | 1.003 25.47 | +.001/- .001 +.025/- .025 | 3/4-16 | 1,250 141 | 2,000 | .95 .43 |
| CFE 1 7/8 B | CFE 1 7/8 SB | | | | | N/A | | | | | | |
| CCFE 1 7/8 | CCFE 1 7/8 S | | | | | | | | | | | |
| CCFE 1 7/8 B | CCFE 1 7/8 SB | | | | | | | | | | | |
| CFH 1 7/8 | CFH 1 7/8 S | .4375 11 | .125 3 | .1875 5 | 1.250 31.75 | .063 1.59 | 1.0003 25.408 | +.0002/- .0003 +.0005/- .0008 | 1-14 | 2,250 254 | 2,000 | 1.15 .52 |
| CFH 1 7/8 B | CFH 1 7/8 SB | | | | | N/A | | | | | | |
| CCFH 1 7/8 | CCFH 1 7/8 S | | | | | | | | | | | |
| CCFH 1 7/8 B | CCFH 1 7/8 SB | | | | | | | | | | | |

For positive clamping, use housing thickness equal to G dimension $\pm .010$.
Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



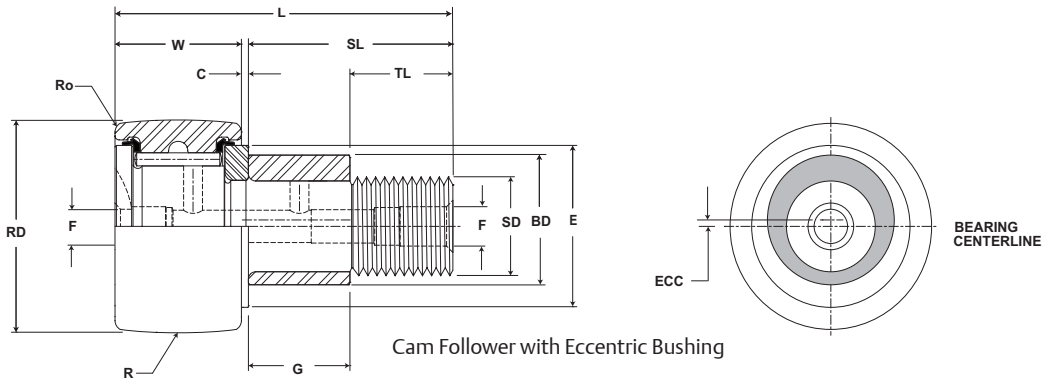
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | | |
| CF 2 | CF 2 S | | | | | | | | | | | Cylindrical | N/A | N/A | N/A | 8,090 35,984 | 10,570 47,015 |
| CF 2 B | CF 2 SB | 2.000 | +0/-0.001 | 1.250 | +0 / -0.005 | .875 | +0.01/-0 | 2.00 | .031 | 1.00 | 3.28 | 24 610 | | | | | |
| CCF 2 | CCF 2 S | 50.80 | +0/-0.03 | 31.75 | +0 / -0.13 | 22.23 | +0.03/-0 | 50.8 | .8 | 25.4 | 83.3 | | | | | | |
| CCF 2 B | CCF 2 SB | | | | | | | | | | | | | | | | |
| CFE 2 | CFE 2 S | | | | | | | | | | | Cylindrical | .030 | 1.000 | 1.187 | 8,090 35,984 | 21,140 94,031 |
| CFE 2 B | CFE 2 SB | 2.000 | +0/-0.001 | 1.250 | +0 / -0.005 | .875 | +0.01/-0 | 2.00 | .031 | 1.00 | 3.28 | 24 610 | | | | | |
| CCFE 2 | CCFE 2 S | 50.80 | +0/-0.03 | 31.75 | +0 / -0.13 | 22.23 | +0.03/-0 | 50.8 | .8 | 25.4 | 83.3 | | | | | | |
| CCFE 2 B | CCFE 2 SB | | | | | | | | | | | | | | | | |
| CFH 2 | CFH 2 S | | | | | | | | | | | Cylindrical | N/A | N/A | N/A | 8,090 35,984 | 21,140 94,031 |
| CFH 2 B | CFH 2 SB | 2.000 | +0/-0.001 | 1.250 | +0 / -0.005 | 1.125 | +0.01/-0 | 2.00 | .031 | 1.00 | 3.28 | 24 610 | | | | | |
| CCFH 2 | CCFH 2 S | 50.80 | +0/-0.03 | 31.75 | +0 / -0.13 | 28.58 | +0.03/-0 | 50.8 | .8 | 25.4 | 83.3 | | | | | | |
| CCFH 2 B | CCFH 2 SB | | | | | | | | | | | | | | | | |
| CF 2 1/4 | CF 2 1/4 S | | | | | | | | | | | Cylindrical | N/A | N/A | N/A | 8,090 35,984 | 10,570 47,015 |
| CF 2 1/4 B | CF 2 1/4 SB | 2.250 | +0/-0.001 | 1.250 | +0 / -0.005 | .875 | +0.01/-0 | 2.00 | .031 | 1.00 | 3.28 | 24 610 | | | | | |
| CCF 2 1/4 | CCF 2 1/4 S | 57.15 | +0/-0.03 | 31.75 | +0 / -0.13 | 22.23 | +0.03/-0 | 50.8 | .8 | 25.4 | 83.3 | | | | | | |
| CCF 2 1/4 B | CCF 2 1/4 SB | | | | | | | | | | | | | | | | |
| CFE 2 1/4 | CFE 2 1/4 S | | | | | | | | | | | Cylindrical | .030 | 1.000 | 1.187 | 8,090 35,984 | 21,140 94,031 |
| CFE 2 1/4 B | CFE 2 1/4 SB | 2.250 | +0/-0.001 | 1.250 | +0 / -0.005 | .875 | +0.01/-0 | 2.00 | .031 | 1.00 | 3.28 | 24 610 | | | | | |
| CCFE 2 1/4 | CCFE 2 1/4 S | 57.15 | +0/-0.03 | 31.75 | +0 / -0.13 | 22.23 | +0.03/-0 | 50.8 | .8 | 25.4 | 83.3 | | | | | | |
| CCFE 2 1/4 B | CCFE 2 1/4 SB | | | | | | | | | | | | | | | | |
| CFH 2 1/4 | CFH 2 1/4 S | | | | | | | | | | | Cylindrical | N/A | N/A | N/A | 8,090 35,984 | 21,140 94,031 |
| CFH 2 1/4 B | CFH 2 1/4 SB | 2.250 | +0/-0.001 | 1.250 | +0 / -0.005 | 1.125 | +0.01/-0 | 2.00 | .031 | 1.00 | 3.28 | 24 610 | | | | | |
| CCFH 2 1/4 | CCFH 2 1/4 S | 57.15 | +0/-0.03 | 31.75 | +0 / -0.13 | 28.58 | +0.03/-0 | 50.8 | .8 | 25.4 | 83.3 | | | | | | |
| CCFH 2 1/4 B | CCFH 2 1/4 SB | | | | | | | | | | | | | | | | |

Metric dimensions for reference only.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFH

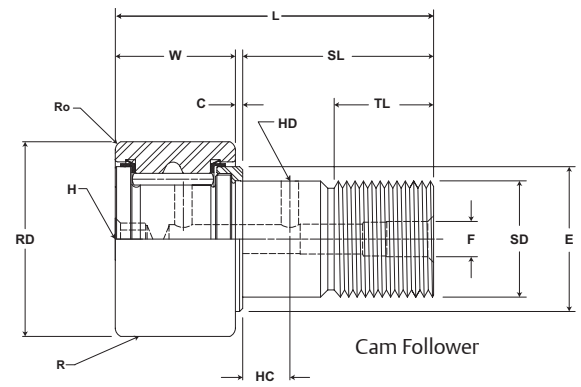
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT | |
|--------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|----------------------------------|-------------|-----------------|-------------------------|-------------|----------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | | | in-lb Nm |
| CF 2 | CF 2 S | .50 13 | .125 3 | .1875 5 | 1.406 35.72 | .094 2.38 | .8753 22.233 | +.0002/- .0003 +.0005/- .0008 | 7/8-14 | 1,500 170 | 1,400 | 1.36 .62 | |
| CF 2 B | CF 2 SB | | | | | N/A | | | | | | | |
| CCF 2 | CCF 2 S | | | | | | | | | | | | |
| CCF 2 B | CCF 2 SB | | | | | | | | | | | | |
| CFE 2 | CFE 2 S | .50 13 | .125 3 | .1875 5 | 1.406 35.72 | .094 2.38 | 1.190 30.22 | +.001/- .001 +.025/- .025 | 7/8-14 | 1,500 170 | 1,400 | 1.36 .62 | |
| CFE 2 B | CFE 2 SB | | | | | N/A | | | | | | | |
| CCFE 2 | CCFE 2 S | | | | | | | | | | | | |
| CCFE 2 B | CCFE 2 SB | | | | | | | | | | | | |
| CFH 2 | CFH 2 S | .50 13 | .125 3 | .1875 5 | 1.406 35.72 | .094 2.38 | 1.1253 28.583 | +.0002/- .0003 +.0005/- .0008 | 1 1/8-12 | 2,800 316 | 1,400 | 1.56 .71 | |
| CFH 2 B | CFH 2 SB | | | | | N/A | | | | | | | |
| CCFH 2 | CCFH 2 S | | | | | | | | | | | | |
| CCFH 2 B | CCFH 2 SB | | | | | | | | | | | | |
| CF 2 1/4 | CF 2 1/4 S | .50 13 | .125 3 | .1875 5 | 1.406 35.72 | .094 2.38 | .8753 22.233 | +.0002/- .0003 +.0005/- .0008 | 7/8-14 | 1,500 170 | 1,300 | 1.65 .75 | |
| CF 2 1/4 B | CF 2 1/4 SB | | | | | N/A | | | | | | | |
| CCF 2 1/4 | CCF 2 1/4 S | | | | | | | | | | | | |
| CCF 2 1/4 B | CCF 2 1/4 SB | | | | | | | | | | | | |
| CFE 2 1/4 | CFE 2 1/4 S | .50 13 | .125 3 | .1875 5 | 1.406 35.72 | .094 2.38 | 1.190 30.22 | +.001/- .001 +.025/- .025 | 7/8-14 | 1,500 170 | 1,300 | 1.65 .75 | |
| CFE 2 1/4 B | CFE 2 1/4 SB | | | | | N/A | | | | | | | |
| CCFE 2 1/4 | CCFE 2 1/4 S | | | | | | | | | | | | |
| CCFE 2 1/4 B | CCFE 2 1/4 SB | | | | | | | | | | | | |
| CFH 2 1/4 | CFH 2 1/4 S | .50 13 | .125 3 | .1875 5 | 1.406 35.72 | .094 2.38 | 1.1253 28.583 | +.0002/- .0003 +.0005/- .0008 | 1 1/8-12 | 2,800 316 | 1,300 | 1.88 .85 | |
| CFH 2 1/4 B | CFH 2 1/4 SB | | | | | N/A | | | | | | | |
| CCFH 2 1/4 | CCFH 2 1/4 S | | | | | | | | | | | | |
| CCFH 2 1/4 B | CCFH 2 1/4 SB | | | | | | | | | | | | |

For positive clamping, use housing thickness equal to G dimension $\pm .010$ ".
Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



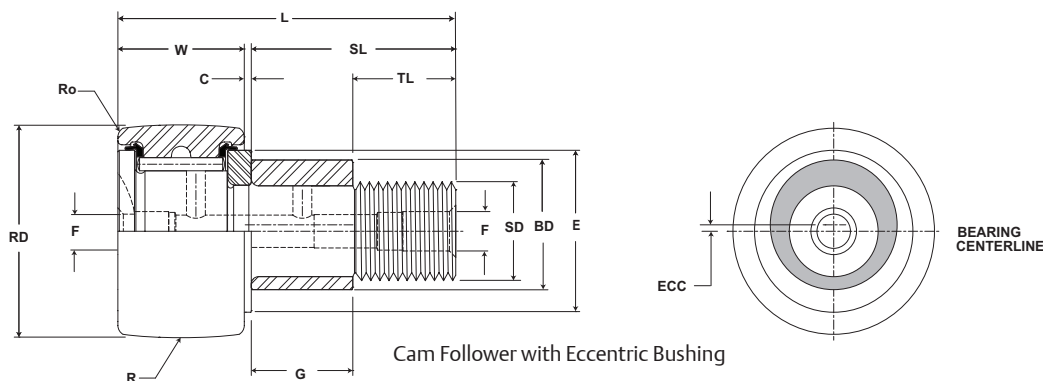
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | | |
| CF 2 1/2 | CF 2 1/2 S | 2.500 63.50 | +0/-0.001 +0/-0.03 | 1.500 38.10 | +0 / -0.005 +0 / -0.13 | 1.000 25.40 | +0.01/-0 +0.03/-0 | 2.25 57.2 | .031 .8 | 1.125 28.57 | 3.78 96.0 | Cylindrical | N/A | N/A | N/A | 11,720 52,131 | 16,450 73,170 |
| CF 2 1/2 B | CF 2 1/2 SB | | | | | | | | | | | 30 | .030 .76 | 1.125 28.58 | 1.375 34.93 | | |
| CCF 2 1/2 | CCF 2 1/2 S | | | | | | | | | | | 762 | | | | | |
| CCF 2 1/2 B | CCF 2 1/2 SB | | | | | | | | | | | 762 | | | | | |
| CFE 2 1/2 | CFE 2 1/2 S | 2.500 63.50 | +0/-0.001 +0/-0.03 | 1.500 38.10 | +0 / -0.005 +0 / -0.13 | 1.000 25.40 | +0.01/-0 +0.03/-0 | 2.25 57.2 | .031 .8 | 1.125 28.57 | 3.78 96.0 | Cylindrical | .030 | 1.125 | 1.375 | 11,720 52,131 | 16,450 73,170 |
| CFE 2 1/2 B | CFE 2 1/2 SB | | | | | | | | | | | 30 | | | | | |
| CCFE 2 1/2 | CCFE 2 1/2 S | | | | | | | | | | | 762 | | | | | |
| CCFE 2 1/2 B | CCFE 2 1/2 SB | | | | | | | | | | | 762 | | | | | |
| CFH 2 1/2 | CFH 2 1/2 S | 2.500 63.50 | +0/-0.001 +0/-0.03 | 1.500 38.10 | +0 / -0.005 +0 / -0.13 | 1.250 31.75 | +0.01/-0 +0.03/-0 | 2.25 57.2 | .031 .8 | 1.125 28.57 | 3.78 96.0 | Cylindrical | N/A | N/A | N/A | 11,720 52,131 | 32,900 146,339 |
| CFH 2 1/2 B | CFH 2 1/2 SB | | | | | | | | | | | 30 | | | | | |
| CCFH 2 1/2 | CCFH 2 1/2 S | | | | | | | | | | | 762 | | | | | |
| CCFH 2 1/2 B | CCFH 2 1/2 SB | | | | | | | | | | | 762 | | | | | |
| CF 2 3/4 | CF 2 3/4 S | 2.750 69.85 | +0/-0.001 +0/-0.03 | 1.500 38.10 | +0 / -0.005 +0 / -0.13 | 1.000 25.40 | +0.01/-0 +0.03/-0 | 2.25 57.2 | .031 .8 | 1.125 28.57 | 3.78 96.0 | Cylindrical | N/A | N/A | N/A | 11,720 52,131 | 16,450 73,170 |
| CF 2 3/4 B | CF 2 3/4 SB | | | | | | | | | | | 30 | | | | | |
| CCF 2 3/4 | CCF 2 3/4 S | | | | | | | | | | | 762 | | | | | |
| CCF 2 3/4 B | CCF 2 3/4 SB | | | | | | | | | | | 762 | | | | | |
| CFE 2 3/4 | CFE 2 3/4 S | 2.750 69.85 | +0/-0.001 +0/-0.03 | 1.500 38.10 | +0 / -0.005 +0 / -0.13 | 1.000 25.40 | +0.01/-0 +0.03/-0 | 2.25 57.2 | .031 .8 | 1.125 28.57 | 3.78 96.0 | Cylindrical | .030 | 1.125 | 1.375 | 11,720 52,131 | 16,450 73,170 |
| CFE 2 3/4 B | CFE 2 3/4 SB | | | | | | | | | | | 30 | | | | | |
| CCFE 2 3/4 | CCFE 2 3/4 S | | | | | | | | | | | 762 | | | | | |
| CCFE 2 3/4 B | CCFE 2 3/4 SB | | | | | | | | | | | 762 | | | | | |
| CFH 2 3/4 | CFH 2 3/4 S | 2.750 69.85 | +0/-0.001 +0/-0.03 | 1.500 38.10 | +0 / -0.005 +0 / -0.13 | 1.250 31.75 | +0.01/-0 +0.03/-0 | 2.25 57.2 | .031 .8 | 1.125 28.57 | 3.78 96.0 | Cylindrical | N/A | N/A | N/A | 11,720 52,131 | 32,900 146,339 |
| CFH 2 3/4 B | CFH 2 3/4 SB | | | | | | | | | | | 30 | | | | | |
| CCFH 2 3/4 | CCFH 2 3/4 S | | | | | | | | | | | 762 | | | | | |
| CCFH 2 3/4 B | CCFH 2 3/4 SB | | | | | | | | | | | 762 | | | | | |

Metric dimensions for reference only.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFH

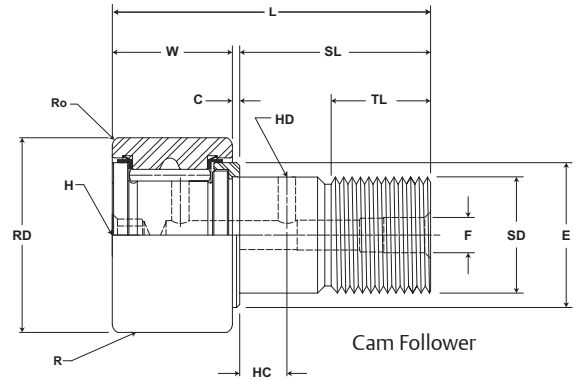
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT | | | | | | | | |
|--------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|----------------------------------|----------------|------------------|----------------------------------|----------------------------------|----------------------------------|--------------|----------------|------------------------------|------|--------------|-------|--------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | | | | | | | | | |
| | | inch mm | | | inch mm | | inch mm | | | | | | | | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | | | in-lb Nm | RPM | lb kg | | | | | |
| CF 2 1/2 | CF 2 1/2 S | .5625 14 | .125 3 | .1875 5 | 1.688 42.86 | .094 2.38 | 1.0003 25.408 | +.0002/- .0003 +.0005/- .0008 | 1-14 | 2,250 254 | 1,100 | 2.50 1.13 | | | | | | | | |
| CF 2 1/2 B | CF 2 1/2 SB | | | | | N/A | | | | | | | | | | | | | | |
| CCF 2 1/2 | CCF 2 1/2 S | | | | | .5625 14 | .125 3 | .1875 5 | | | | | 1.688 42.86 | .094 2.38 | 1.378 35.00 | +.001/- .001 +.025/- .025 | | | | |
| CFE 2 1/2 | CFE 2 1/2 S | | | | | | | | | | | | | N/A | | | | | | |
| CFE 2 1/2 B | CFE 2 1/2 SB | .5625 14 | .125 3 | .1875 5 | 1.688 42.86 | | | | .094 2.38 | 1.2503 31.758 | +.0002/- .0003 +.0005/- .0008 | 1 1/4-12 | | 3,450 390 | 1,100 | 2.75 1.25 | | | | |
| CCF 2 1/2 | CCF 2 1/2 S | | | | | | | | N/A | | | | | | | | | | | |
| CCFH 2 1/2 | CCFH 2 1/2 S | | | | | .5625 14 | .125 3 | .1875 5 | 1.688 42.86 | .094 2.38 | 1.0003 25.408 | | +.0002/- .0003 +.0005/- .0008 | | | | 1-14 | 2,250 254 | 1,050 | 2.93 1.33 |
| CF 2 3/4 | CF 2 3/4 S | | | | | | | | | N/A | | | | | | | | | | |
| CF 2 3/4 B | CF 2 3/4 SB | .5625 14 | .125 3 | .1875 5 | 1.688 42.86 | | | | | .094 2.38 | 1.378 35.00 | +.001/- .001 +.025/- .025 | | | | | | | | |
| CCF 2 3/4 | CCF 2 3/4 S | | | | | | | | | N/A | | | | | | | | | | |
| CCF 2 3/4 B | CCF 2 3/4 SB | | | | | .5625 14 | .125 3 | .1875 5 | 1.688 42.86 | .094 2.38 | 1.2503 31.758 | +.0002/- .0003 +.0005/- .0008 | 1 1/4-12 | 3,450 390 | 1,050 | 3.19 1.47 | | | | |
| CFH 2 3/4 | CFH 2 3/4 S | | | | | | | | | N/A | | | | | | | | | | |
| CFH 2 3/4 B | CFH 2 3/4 SB | .5625 14 | .125 3 | .1875 5 | 1.688 42.86 | | | | | .094 2.38 | 1.0003 25.408 | +.0002/- .0003 +.0005/- .0008 | | | | | | | | |
| CCFH 2 3/4 | CCFH 2 3/4 S | | | | | | | | | N/A | | | | | | | | | | |
| CCFH 2 3/4 B | CCFH 2 3/4 SB | | | | | .5625 14 | .125 3 | .1875 5 | 1.688 42.86 | .094 2.38 | 1.378 35.00 | +.001/- .001 +.025/- .025 | | | | | | | | |
| CFH 2 3/4 | CFH 2 3/4 S | | | | | | | | | N/A | | | | | | | | | | |

For positive clamping, use housing thickness equal to G dimension $\pm .010$ ".
Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



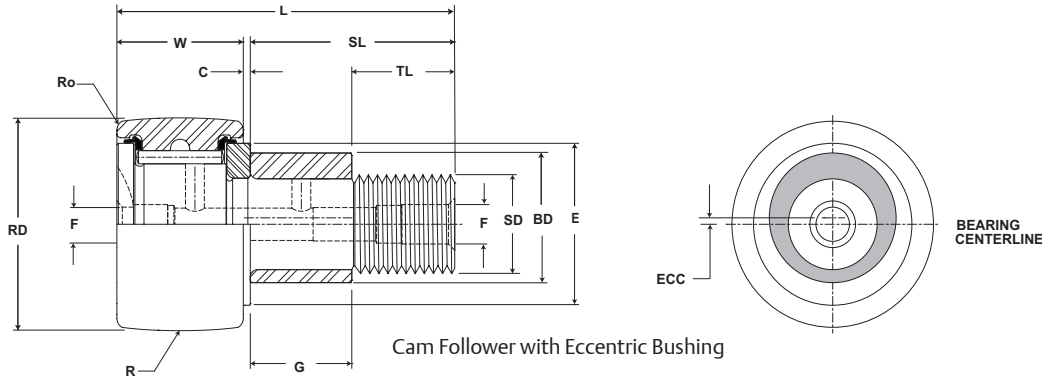
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-XX | | | | |
| | | inch mm | | inch mm | | inch mm | | inch mm | | inch mm | | inch mm | | | | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius (Ref) | (Ref) | +0/-0.010 | ±.001 | | |
| CF 3 | CF 3 S | 3.000 76.20 | +0/-0.001 +0/-0.03 | 1.750 44.45 | +0 / -0.005 +0 / -0.13 | 1.250 31.75 | +0.01/-0 +0.03/-0 | 2.50 63.5 | .031 .8 | 1.25 31.75 | 4.28 108.7 | Cylindrical | N/A | N/A | N/A | 15,720 69,923 | 24,910 110,800 24,910 110,800 |
| CF 3 B | CF 3 SB | | | | | | | | | | | 30 | | | | | |
| CCF 3 | CCF 3 S | | | | | | | | | | | 762 | | | | | |
| CFE 3 | CFE 3 S | 3.000 76.20 | +0/-0.001 +0/-0.03 | 1.750 44.45 | +0 / -0.005 +0 / -0.13 | 1.250 31.75 | +0.01/-0 +0.03/-0 | 2.50 63.5 | .031 .8 | 1.25 31.75 | 4.28 108.7 | Cylindrical | .060 .52 | 1.250 31.75 | 1.750 44.45 | 15,720 69,923 | 24,910 110,800 24,910 110,800 |
| CFE 3 B | CFE 3 SB | | | | | | | | | | | 30 | | | | | |
| CCFE 3 | CCFE 3 S | | | | | | | | | | | 762 | | | | | |
| CFH 3 | CFH 3 S | 3.000 76.20 | +0/-0.001 +0/-0.03 | 1.750 44.45 | +0 / -0.005 +0 / -0.13 | 1.500 38.10 | +0.01/-0 +0.03/-0 | 2.50 63.5 | .031 .8 | 1.25 31.75 | 4.28 108.7 | Cylindrical | N/A | N/A | N/A | 15,720 69,923 | 49,820 221,599 |
| CFH 3 B | CFH 3 SB | | | | | | | | | | | 30 | | | | | |
| CCFH 3 | CCFH 3 S | | | | | | | | | | | 762 | | | | | |
| CF 3 1/4 | CF 3 1/4 S | 3.250 82.55 | +0/-0.001 +0/-0.03 | 1.750 44.45 | +0 / -0.005 +0 / -0.13 | 1.250 31.75 | +0.01/-0 +0.03/-0 | 2.50 63.5 | .031 .8 | 1.25 31.75 | 4.28 108.7 | Cylindrical | N/A | N/A | N/A | 15,720 69,923 | 24,910 110,800 |
| CF 3 1/4 B | CF 3 1/4 SB | | | | | | | | | | | 30 | | | | | |
| CCF 3 1/4 | CCF 3 1/4 S | | | | | | | | | | | 762 | | | | | |
| CFE 3 1/4 | CFE 3 1/4 S | 3.250 82.55 | +0/-0.001 +0/-0.03 | 1.750 44.45 | +0 / -0.005 +0 / -0.13 | 1.250 31.75 | +0.01/-0 +0.03/-0 | 2.50 63.5 | .031 .8 | 1.25 31.75 | 4.28 108.7 | Cylindrical | .060 .52 | 1.250 31.75 | 1.750 44.45 | 15,720 69,923 | 24,910 110,800 |
| CFE 3 1/4 B | CFE 3 1/4 SB | | | | | | | | | | | 30 | | | | | |
| CCFE 3 1/4 | CCFE 3 1/4 S | | | | | | | | | | | 762 | | | | | |
| CFH 3 1/4 | CFH 3 1/4 S | 3.250 82.55 | +0/-0.001 +0/-0.03 | 1.750 44.45 | +0 / -0.005 +0 / -0.13 | 1.500 38.10 | +0.01/-0 +0.03/-0 | 2.50 63.5 | .031 .8 | 1.25 31.75 | 4.28 108.7 | Cylindrical | N/A | N/A | N/A | 15,720 69,923 | 49,820 221,599 |
| CFH 3 1/4 B | CFH 3 1/4 SB | | | | | | | | | | | 30 | | | | | |
| CCFH 3 1/4 | CCFH 3 1/4 S | | | | | | | | | | | 762 | | | | | |

Metric dimensions for reference only.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFH

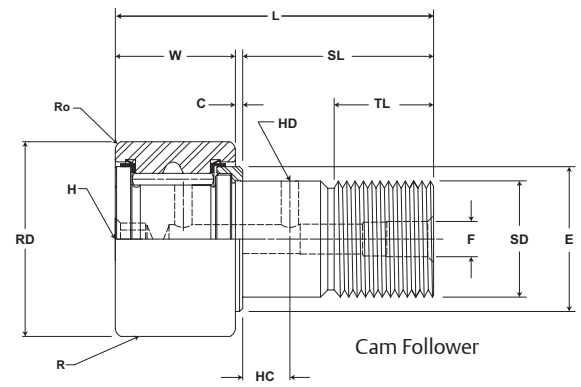
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT |
|--------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|---------------|-------------|-----------------|-------------------------|--------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | |
| | | inch mm | | inch mm | | inch mm | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | | |
| CF 3 | CF 3 S | .625 16 | .125 3 | .25 * 6 | 2.125 53.98 | .125 3.18 | 1.2503 | +0.002/-0.003 | 1 1/4-12 | 3,450 390 | 950 | 4.20 1.91 |
| CF 3 B | CF 3 SB | | | | | N/A | 31.758 | +0.005/-0.008 | | | | |
| CCF 3 | CCF 3 S | | | | | N/A | | | | | | |
| CCF 3 B | CCF 3 SB | | | | | N/A | | | | | | |
| CFE 3 | CFE 3 S | .625 16 | .125 3 | .25 * 6 | 2.125 53.98 | .125 3.18 | 1.753 | +0.01/-0.01 | 1 1/2-12 | 5,000 565 | 950 | 4.56 2.07 |
| CFE 3 B | CFE 3 SB | | | | | N/A | 38.108 | +0.002/-0.003 | | | | |
| CCFE 3 | CCFE 3 S | | | | | N/A | | +0.005/-0.008 | | | | |
| CCFE 3 B | CCFE 3 SB | | | | | N/A | | | | | | |
| CFH 3 | CFH 3 S | .625 16 | .125 3 | .25 * 6 | 2.125 53.98 | .125 3.18 | 1.5003 | +0.002/-0.003 | 1 1/4-12 | 3,450 390 | 880 | 4.81 2.18 |
| CFH 3 B | CFH 3 SB | | | | | N/A | 31.758 | +0.005/-0.008 | | | | |
| CCFH 3 | CCFH 3 S | | | | | N/A | | | | | | |
| CCFH 3 B | CCFH 3 SB | | | | | N/A | | | | | | |
| CF 3 1/4 | CF 3 1/4 S | .625 16 | .125 3 | .25 * 6 | 2.125 53.98 | .125 3.18 | 1.2503 | +0.002/-0.003 | 1 1/2-12 | 5,000 565 | 880 | 5.19 2.35 |
| CF 3 1/4 B | CF 3 1/4 SB | | | | | N/A | 31.758 | +0.005/-0.008 | | | | |
| CCF 3 1/4 | CCF 3 1/4 S | | | | | N/A | | | | | | |
| CCF 3 1/4 B | CCF 3 1/4 SB | | | | | N/A | | | | | | |
| CFE 3 1/4 | CFE 3 1/4 S | .625 16 | .125 3 | .25 * 6 | 2.125 53.98 | .125 3.18 | 1.753 | +0.01/-0.01 | 1 1/4-12 | 3,450 390 | 950 | 4.20 1.91 |
| CFE 3 1/4 B | CFE 3 1/4 SB | | | | | N/A | 44.52 | +0.025/-0.025 | | | | |
| CCFE 3 1/4 | CCFE 3 1/4 S | | | | | N/A | | | | | | |
| CCFE 3 1/4 B | CCFE 3 1/4 SB | | | | | N/A | | | | | | |
| CFH 3 1/4 | CFH 3 1/4 S | .625 16 | .125 3 | .25 * 6 | 2.125 53.98 | .125 3.18 | 1.5003 | +0.002/-0.003 | 1 1/2-12 | 5,000 565 | 880 | 5.19 2.35 |
| CFH 3 1/4 B | CFH 3 1/4 SB | | | | | N/A | 38.108 | +0.005/-0.008 | | | | |
| CCFH 3 1/4 | CCFH 3 1/4 S | | | | | N/A | | | | | | |
| CCFH 3 1/4 B | CCFH 3 1/4 SB | | | | | N/A | | | | | | |

* Lubrication hole (F) at bottom of hex hole and 1/4 inch straight drive fitting will ball check supplied but not installed.
 For positive clamping, use housing thickness equal to G dimension $\pm .010$.
 Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
 Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



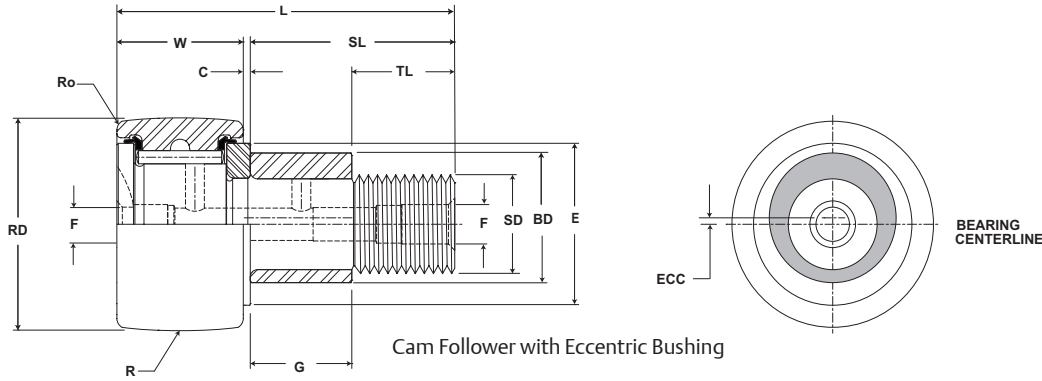
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | | | lb/N |
| CF 3 1/2 | CF 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 | .031 .8 | 1.375 34.93 | 4.78 121.4 | Cylindrical | N/A | N/A | N/A | 22,800 101,414 | 31,625 140,668 | |
| CF 3 1/2 B | CF 3 1/2 SB | | | | | | | | | | | 30 | | | | | | |
| CCF 3 1/2 | CCF 3 1/2 S | | | | | | | | | | | 762 | | | | | | |
| CCF 3 1/2 B | CCF 3 1/2 SB | | | | | | | | | | | 762 | | | | | | |
| CFE 3 1/2 | CFE 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 | .031 .8 | 1.375 34.93 | 4.78 121.4 | Cylindrical | .060 .52 | 1.375 34.93 | 1.812 46.02 | 22,800 101,414 | 31,625 140,668 | |
| CFE 3 1/2 B | CFE 3 1/2 SB | | | | | | | | | | | 30 | | | | | | |
| CCFE 3 1/2 | CCFE 3 1/2 S | | | | | | | | | | | 762 | | | | | | |
| CCFE 3 1/2 B | CCFE 3 1/2 SB | | | | | | | | | | | 762 | | | | | | |
| CFH 3 1/2 | CFH 3 1/2 S | 3.500 88.90 | +0/-0.001 +0/-0.03 | 2.000 50.80 | +0 / -0.005 +0 / -0.13 | 1.750 44.45 | +0.001/-0 +0.03/-0 | 2.75 69.9 | .031 .8 | 1.375 34.93 | 4.78 121.4 | Cylindrical | N/A | N/A | N/A | 22,800 101,414 | 63,250 281,336 | |
| CFH 3 1/2 B | CFH 3 1/2 SB | | | | | | | | | | | 30 | | | | | | |
| CCFH 3 1/2 | CCFH 3 1/2 S | | | | | | | | | | | 762 | | | | | | |
| CCFH 3 1/2 B | CCFH 3 1/2 SB | | | | | | | | | | | 762 | | | | | | |
| CF 4 | CF 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 | .031 .8 | 1.50 38.1 | 5.78 146.8 | Cylindrical | N/A | N/A | N/A | 22,800 101,414 | 44,770 199,137 | |
| CF 4 B | CF 4 SB | | | | | | | | | | | 30 | | | | | | |
| CCF 4 | CCF 4 S | | | | | | | | | | | 762 | | | | | | |
| CCF 4 B | CCF 4 SB | | | | | | | | | | | 762 | | | | | | |
| CFE 4 | CFE 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 | .031 .8 | 1.50 38.1 | 5.78 146.8 | Cylindrical | .060 .52 | 2.000 50.80 | 2.000 50.80 | 22,800 101,414 | 44,770 199,137 | |
| CFE 4 B | CFE 4 SB | | | | | | | | | | | 30 | | | | | | |
| CCFE 4 | CCFE 4 S | | | | | | | | | | | 762 | | | | | | |
| CCFE 4 B | CCFE 4 SB | | | | | | | | | | | 762 | | | | | | |
| CFH 4 | CFH 4 S | 4.000 101.60 | +0/-0.001 +0/-0.03 | 2.250 57.15 | +0 / -0.005 +0 / -0.13 | 2.000 50.80 | +0.001/-0 +0.03/-0 | 3.50 88.9 | .031 .8 | 1.50 38.1 | 5.78 146.8 | Cylindrical | N/A | N/A | N/A | 29,985 133,373 | 89,540 398,274 | |
| CFH 4 B | CFH 4 SB | | | | | | | | | | | 30 | | | | | | |
| CCFH 4 | CCFH 4 S | | | | | | | | | | | 762 | | | | | | |
| CCFH 4 B | CCFH 4 SB | | | | | | | | | | | 762 | | | | | | |

Metric dimensions for reference only.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFH

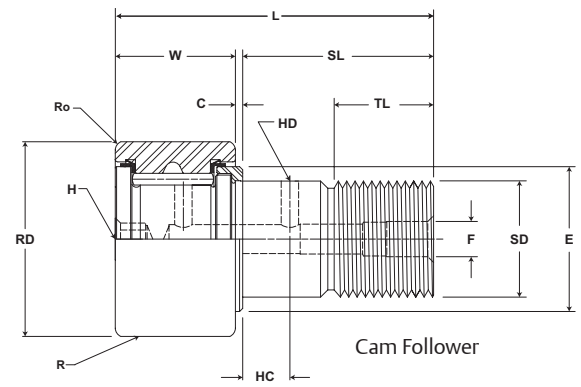
| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT |
|--------------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|---------------|-------------|-----------------|-------------------------|---------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | |
| | | inch mm | | inch mm | | inch mm | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | | |
| CF 3 1/2 | CF 3 1/2 S | .6875 17 | .125 3 | .25 * 6 | 2.438 61.91 | .125 3.18 | 1.3753 | +0.002/-0.003 | 1 3/8-12 | 4,200 475 | 820 | 6.42 2.91 |
| CF 3 1/2 B | CF 3 1/2 SB | | | | | N/A | 34.933 | +0.005/-0.008 | | | | |
| CCF 3 1/2 | CCF 3 1/2 S | | | | | | | | | | | |
| CCF 3 1/2 B | CCF 3 1/2 SB | | | | | | | | | | | |
| CFE 3 1/2 | CFE 3 1/2 S | .6875 17 | .125 3 | .25 * 6 | 2.438 61.91 | .125 3.18 | 1.815 | +0.001/-0.001 | 1 3/4-12 | 5,000 565 | 820 | 7.01 3.18 |
| CFE 3 1/2 B | CFE 3 1/2 SB | | | | | N/A | 46.10 | +0.025/-0.025 | | | | |
| CCFE 3 1/2 | CCFE 3 1/2 S | | | | | | | | | | | |
| CCFE 3 1/2 B | CCFE 3 1/2 SB | | | | | | | | | | | |
| CFH 3 1/2 | CFH 3 1/2 S | .6875 17 | .125 3 | .25 * 6 | 2.438 61.91 | .125 3.18 | 1.7503 | +0.002/-0.003 | 1 3/4-12 | 5,000 565 | 820 | 7.01 3.18 |
| CFH 3 1/2 B | CFH 3 1/2 SB | | | | | N/A | 44.458 | +0.005/-0.008 | | | | |
| CCFH 3 1/2 | CCFH 3 1/2 S | | | | | | | | | | | |
| CCFH 3 1/2 B | CCFH 3 1/2 SB | | | | | | | | | | | |
| CF 4 | CF 4 S | .75 19 | .125 3 | .25 * 6 | 2.797 71.04 | .125 3.18 | 1.5003 | +0.002/-0.003 | 1 1/2-12 | 5,000 565 | 700 | 9.46 4.29 |
| CF 4 B | CF 4 SB | | | | | N/A | 38.108 | +0.005/-0.008 | | | | |
| CCF 4 | CCF 4 S | | | | | | | | | | | |
| CCF 4 B | CCF 4 SB | | | | | | | | | | | |
| CFE 4 | CFE 4 S | .75 19 | .125 3 | .25 * 6 | 2.797 71.04 | .125 3.18 | 2.002 | +0.001/-0.001 | 2-12 | 5,000 565 | 700 | 10.83 4.91 |
| CFE 4 B | CFE 4 SB | | | | | N/A | 50.85 | +0.025/-0.025 | | | | |
| CCFE 4 | CCFE 4 S | | | | | | | | | | | |
| CCFE 4 B | CCFE 4 SB | | | | | | | | | | | |
| CFH 4 | CFH 4 S | .75 19 | .125 3 | .25 * 6 | 2.797 71.04 | .125 3.18 | 2.0003 | +0.002/-0.003 | 2-12 | 5,000 565 | 700 | 10.83 4.91 |
| CFH 4 B | CFH 4 SB | | | | | N/A | 50.808 | +0.005/-0.008 | | | | |
| CCFH 4 | CCFH 4 S | | | | | | | | | | | |
| CCFH 4 B | CCFH 4 SB | | | | | | | | | | | |

* Lubrication hole (F) at bottom of hex hole and 1/4 inch straight drive fitting will ball check supplied but not installed.
 For positive clamping, use housing thickness equal to G dimension $\pm .010$ ".
 Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.
 Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



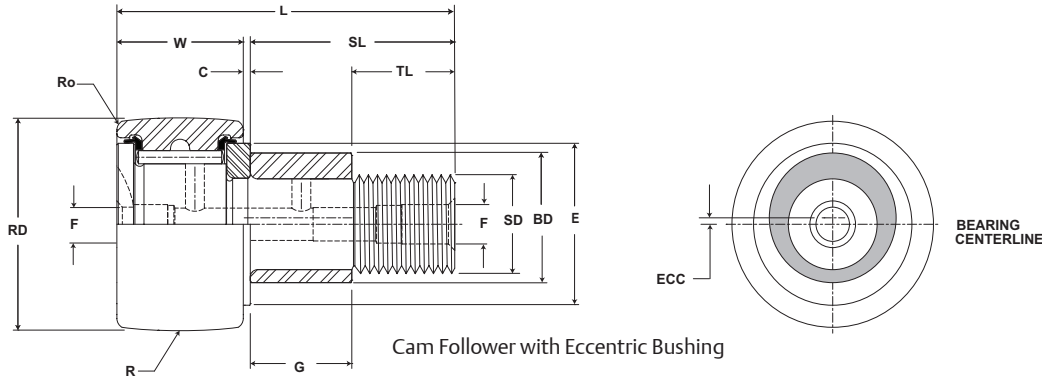
CF, CFE, CFH

| 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 | Min Thread Length | Length Overall | Crown Prefix CCF-XX | Eccentric Base Modifier CFE-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) | (Ref) | +0/-0.010 | ±.001 | lb/N | |
| - | CF 5 SB | 5.000 | +0/-0.001 | 2.750 | +0 / -0.005 | 2.000 | +0.01/-0 | 5.06 | .062 | 2.563 | 7.88 | Cylindrical | N/A | N/A | N/A | 46,575 | 67,950 |
| | CCF 5 SB | 127.00 | +0/-0.03 | 69.85 | +0 / -0.13 | 50.80 | +0.03/-0 | 128.6 | 1.57 | 65.1 | 200.0 | 48 1,219 | | | | | |
| | CFH 5 SB | 5.000 | +0/-0.001 | 2.750 | +0 / -0.005 | 2.500 | +0.01/-0 | 5.06 | .062 | 2.563 | 7.88 | Cylindrical | N/A | N/A | N/A | 46,575 | 135,900 |
| | CCFH 5 SB | 127.00 | +0/-0.03 | 69.85 | +0 / -0.13 | 63.50 | +0.03/-0 | 128.6 | 1.57 | 65.1 | 200.0 | 48 1,219 | | | | | |
| - | CF 6 SB | 6.000 | +0/-0.001 | 3.250 | +0 / -0.005 | 2.500 | +0.01/-0 | 6.00 | .062 | 3.00 | 9.31 | Cylindrical | N/A | N/A | N/A | 60,000 | 80,450 |
| | CCF 6 SB | 152.40 | +0/-0.03 | 82.55 | +0 / -0.13 | 63.50 | +0.03/-0 | 152.4 | 1.57 | 76.2 | 236.5 | 56 1,422 | | | | | |
| | CFH 6 SB | 6.000 | +0/-0.001 | 3.250 | +0 / -0.005 | 2.500 | +0.01/-0 | 6.00 | .062 | 3.00 | 9.31 | Cylindrical | N/A | N/A | N/A | 60,000 | 160,900 |
| | CCFH 6 SB | 152.40 | +0/-0.03 | 82.55 | +0 / -0.13 | 63.50 | +0.03/-0 | 152.4 | 1.57 | 76.2 | 236.5 | 56 1,422 | | | | | |
| - | CF 7 SB | 7.000 | +0/-0.001 | 3.750 | +0 / -0.005 | 3.000 | +0.01/-0 | 7.69 | .062 | 4.125 | 11.50 | Cylindrical | N/A | N/A | N/A | 75,380 | 106,930 |
| | CCF 7 SB | 177.80 | +0/-0.03 | 95.25 | +0 / -0.13 | 76.20 | +0.03/-0 | 195.3 | 1.57 | 104.77 | 292.1 | 60 1,524 | | | | | |
| | CFH 7 SB | 7.000 | +0/-0.001 | 3.750 | +0 / -0.005 | 3.000 | +0.01/-0 | 7.69 | .062 | 4.125 | 11.50 | Cylindrical | N/A | N/A | N/A | 75,380 | 213,860 |
| | CCFH 7 SB | 177.80 | +0/-0.03 | 95.25 | +0 / -0.13 | 76.20 | +0.03/-0 | 195.3 | 1.57 | 104.77 | 292.1 | 60 1,524 | | | | | |
| - | CF 8 SB | 8.000 | * | 4.250 | * | 3.250 | +0.01/-0 | 8.50 | .125 | 4.25 | 12.81 | Cylindrical | N/A | N/A | N/A | 92,200 | 144,100 |
| | CCF 8 SB | 203.20 | | 107.95 | | 82.55 | +0.03/-0 | 215.9 | 3.175 | 107.95 | 325.4 | 40 1,016 | | | | | |
| - | CF 9 SB | 9.000 | * | 4.750 | * | 3.750 | +0.01/-0 | 9.50 | .125 | 4.75 | 14.31 | Cylindrical | N/A | N/A | N/A | 113,260 | 183,430 |
| | CCF 9 SB | 228.60 | | 120.65 | | 95.25 | +0.03/-0 | 241.3 | 3.175 | 120.65 | 363.5 | 40 1,016 | | | | | |
| - | CF 10 SB | 10.000 | * | 5.250 | * | 4.250 | +0.01/-0 | 10.00 | .125 | 4.75 | 15.31 | Cylindrical | N/A | N/A | N/A | 131,545 | 215,565 |
| | CCF 10 SB | 254.00 | | 133.35 | | 107.95 | +0.03/-0 | 254.0 | 3.175 | 120.65 | 388.9 | 40 1,016 | | | | | |

Metric dimensions for reference only.
 *Standard tolerances do not apply. Consult Application Engineering.
 Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

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**



CF, CFE, CFH

| Part No. | | HC | HD | F | E | Ro | HBD | | Thread Type | Clamping Torque | Limiting Speed (Grease) | WT |
|-----------|-----------------------|-------------|----------------------|---------------------------|-------------------|--------------|-----------------------|---------------|-------------|-----------------|-------------------------|--------|
| W/O Seals | With LUBRI-DISC Seals | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Min Boss Diameter | Outer Corner | Housing Bore Diameter | | | | | |
| | | inch mm | | inch mm | | inch mm | | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | in-lb Nm | | | | |
| - | CF 5 S | .875 | .1875 | 1/4" NPT | 3.563 | .125 | 2.0003 | +0.002/-0.003 | 2-12 | 5,000 | 575 | 19.60 |
| | CCF 5 S | 22 | 5 | | 90.49 | 3.18 | 50.808 | +0.005/-0.008 | | | | |
| | CFH 5 S | .875 | .1875 | 1/4" NPT | 3.563 | .125 | 2.5030 | +0.002/-0.003 | 2 1/2-12 | 5,000 | 575 | 22.10 |
| | CCFH 5 S | 22 | 5 | | 90.49 | 3.18 | 63.576 | +0.005/-0.008 | | | | |
| - | CF 6 S | 1.00 | .1875 | 1/4" NPT | 4.469 | .125 | 2.5030 | +0.002/-0.003 | 2 1/2-12 | 5,000 | 475 | 32.73 |
| | CCF 6 S | 25 | 5 | | 113.51 | 3.18 | 63.576 | +0.005/-0.008 | | | | |
| | CFH 6 S | 1.00 | .1875 | 1/4" NPT | 4.469 | .125 | 3.0003 | +0.002/-0.003 | 3-12 | 5,000 | 475 | 36.41 |
| | CCFH 6 S | 25 | 5 | | 113.51 | 3.18 | 76.208 | +0.005/-0.008 | | | | |
| - | CF 7 S | 1.25 | .1875 | 1/4" NPT | 5.188 | .125 | 3.0003 | +0.002/-0.003 | 3-12 | 5,000 | 400 | 54.73 |
| | CCF 7 S | 32 | 5 | | 131.76 | 3.18 | 76.208 | +0.005/-0.008 | | | | |
| | CFH 7 S | 1.25 | .1875 | 1/4" NPT | 5.188 | .125 | 3.5003 | +0.002/-0.003 | 3 1/2-4 | 5,000 | 400 | 68.03 |
| | CCFH 7 S | 32 | 5 | | 131.76 | 3.18 | 88.908 | +0.005/-0.008 | | | | |
| - | CF 8 S | - | - | 1/4" NPT | 4.375 | .219 | 3.2503 | +0.002/-0.003 | 3 1/4-4 | 5,000 | 350 | 79.80 |
| | CCF 8 S | - | - | | 111.13 | 5.56 | 82.558 | +0.005/-0.008 | | | | |
| - | CF 9 S | - | - | 1/4" NPT | 5.063 | .250 | 3.7503 | +0.002/-0.003 | 3 1/2-4 | 5,000 | 300 | 111.60 |
| | CCF 9 S | - | - | | 128.59 | 6.35 | 95.258 | +0.005/-0.008 | | | | |
| - | CF 10 S | - | - | 1/4" NPT | 5.469 | .281 | 4.2503 | +0.002/-0.003 | 3 1/2-4 | 5,000 | 275 | 148.20 |
| | CCF 10 S | - | - | | 138.91 | 7.14 | 107.958 | +0.005/-0.008 | | | | |

For positive clamping, use housing thickness equal to G dimension = .010".
Clamping torque based on dry threads. For wet (lubricated) threads, use half of value shown.
Hex wrench size for "Broached" version is located in the wrench size chart on page B-156.

McGILL® Inch Cam Follower Bearings



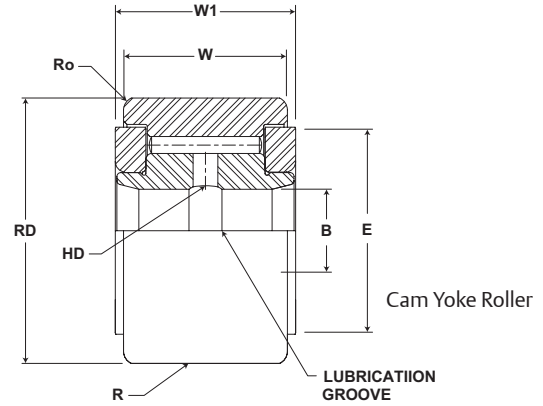
Basic Construction Type: Yoke Type Crowned/
Cylindrical Outside Diameter

Rolling Elements: Full Complement/Needle
Roller

Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2

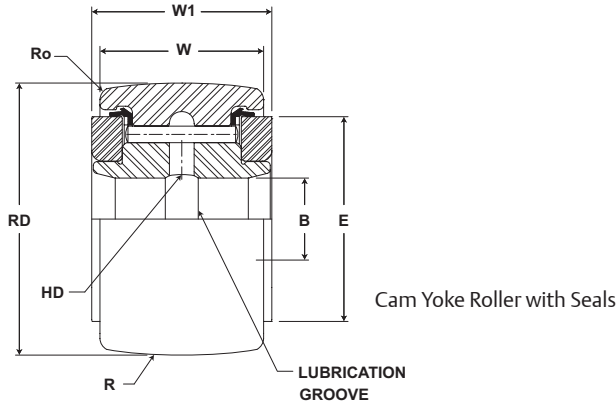


CYR

| Part No. | | RD | | W | | B | | W1 | | R | Track Roller Dynamic Rating | Track Roller Static Rating |
|-----------|-----------------------------|-----------------|-----------|--------------|-----------|---------------|-----------------|---------------|--------------|----------------------|-----------------------------------|----------------------------------|
| W/O Seals | With LUBRI-DISC Seals | Roller Diameter | | Roller Width | | Bore Diameter | | Overall Width | | Crown | | |
| | | inch mm | | inch mm | | inch mm | | inch mm | | Prefix CCYR-XX | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | inch mm Radius | lb/N | lb/N |
| CYR 3/4 | CYR 3/4 S | .750 | +0/-0.001 | .500 | +0/-0.005 | .250 | +0.002/-0.0004 | .5625 | +0.005/-0.01 | Cylindrical | 1,660 7,384 | 4,130 18,370 |
| | CCYR 3/4 S | 19.05 | +0/-0.03 | 12.70 | +0/-0.13 | 6.35 | +0.0005/-0.0010 | 14.28 | +0.13/-0.25 | 10 254 | | |
| CYR 7/8 | CYR 7/8 S | .875 | +0/-0.001 | .500 | +0/-0.005 | .250 | +0.002/-0.0004 | .5625 | +0.005/-0.01 | Cylindrical | 1,660 7,384 | 4,130 18,370 |
| | CCYR 7/8 S | 22.23 | +0/-0.03 | 12.70 | +0/-0.13 | 6.35 | +0.0005/-0.0010 | 14.28 | +0.13/-0.25 | 10 254 | | |
| CYR 1 | CYR 1 S | 1.000 | +0/-0.001 | .625 | +0/-0.005 | .3125 | +0.002/-0.0004 | .6875 | +0.005/-0.01 | Cylindrical | 2,225 9,897 | 6,120 27,222 |
| | CCYR 1 S | 25.40 | +0/-0.03 | 15.88 | +0/-0.13 | 7.94 | +0.0005/-0.0010 | 17.46 | +0.13/-0.25 | 12 305 | | |
| CYR 1 1/8 | CYR 1 1/8 S | 1.125 | +0/-0.001 | .625 | +0/-0.005 | .3125 | +0.002/-0.0004 | .6875 | +0.005/-0.01 | Cylindrical | 2,225 9,897 | 6,120 27,222 |
| | CCYR 1 1/8 S | 28.58 | +0/-0.03 | 15.88 | +0/-0.13 | 7.94 | +0.0005/-0.0010 | 17.46 | +0.13/-0.25 | 12 305 | | |
| CYR 1 1/4 | CYR 1 1/4 S | 1.250 | +0/-0.001 | .750 | +0/-0.005 | .375 | +0.002/-0.0004 | .8125 | +0.005/-0.01 | Cylindrical | 3,930 17,481 | 8,500 37,808 |
| | CCYR 1 1/4 S | 31.75 | +0/-0.03 | 19.05 | +0/-0.13 | 9.53 | +0.0005/-0.0010 | 20.64 | +0.13/-0.25 | 14 356 | | |
| CYR 1 3/8 | CYR 1 3/8 S | 1.375 | +0/-0.001 | .750 | +0/-0.005 | .375 | +0.002/-0.0004 | .8125 | +0.005/-0.01 | Cylindrical | 3,930 17,481 | 8,500 37,808 |
| | CCYR 1 3/8 S | 34.93 | +0/-0.03 | 19.05 | +0/-0.13 | 9.53 | +0.0005/-0.0010 | 20.64 | +0.13/-0.25 | 14 356 | | |
| CYR 1 1/2 | CYR 1 1/2 S | 1.500 | +0/-0.001 | .875 | +0/-0.005 | .4375 | +0.002/-0.0004 | .9375 | +0.005/-0.01 | Cylindrical | 4,840 21,528 | 11,280 50,173 |
| | CCYR 1 1/2 S | 38.10 | +0/-0.03 | 22.23 | +0/-0.13 | 11.11 | +0.0005/-0.0010 | 23.81 | +0.13/-0.25 | 20 508 | | |
| CYR 1 5/8 | CYR 1 5/8 S | 1.625 | +0/-0.001 | .875 | +0/-0.005 | .4375 | +0.002/-0.0004 | .9375 | +0.005/-0.01 | Cylindrical | 4,840 21,528 | 11,280 50,173 |
| | CCYR 1 5/8 S | 41.28 | +0/-0.03 | 22.23 | +0/-0.13 | 11.11 | +0.0005/-0.0010 | 23.81 | +0.13/-0.25 | 20 508 | | |
| CYR 1 3/4 | CYR 1 3/4 S | 1.750 | +0/-0.001 | 1.000 | +0/-0.005 | .500 | +0.002/-0.0004 | 1.0625 | +0.005/-0.01 | Cylindrical | 6,385 28,400 | 115,840 515,256 |
| | CCYR 1 3/4 S | 44.45 | +0/-0.03 | 25.40 | +0/-0.13 | 12.70 | +0.0005/-0.0010 | 26.98 | +0.13/-0.25 | 20 508 | | |

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**



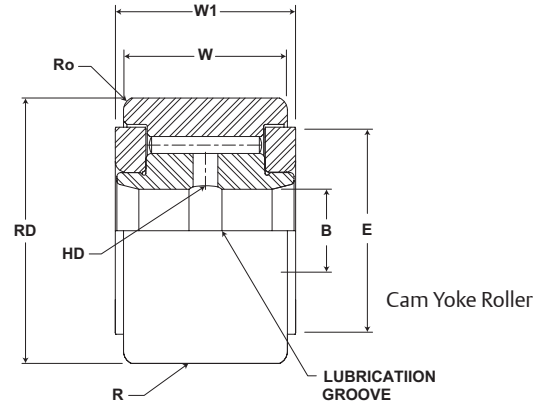
CYR

| Part No. | | HD | E | Ro | Recommended Shaft Diameters | | | | | | Limiting Speed | WT |
|-----------|-----------------------|---------------|------------------------|--------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Diameter | Min. Clamping Diameter | Outer Corner | Push Fit | | Drive Fit | | Press Fit | | RPM | Bearing Weight |
| | | inch mm | | | inch mm | | inch mm | | inch mm | | | |
| | | (Ref) | (Ref) | (Ref) | Nom | Tol | Nom | Tol | Nom | Tol | | |
| CYR 3/4 | CYR 3/4 S | .09 2.4 | .61 15.5 | .02 .4 | .2495 6.337 | ±.0002 ±.005 | .2501 6.353 | ±.0002 ±.005 | .2503 6.357 | ±.0002 ±.005 | 6,400 | .06 .03 |
| | CCYR 3/4 S | | | N/A | | | | | | | | |
| CYR 7/8 | CYR 7/8 S | .09 2.4 | .61 15.5 | .02 .4 | .2495 6.337 | ±.0002 ±.005 | .2501 6.353 | ±.0002 ±.005 | .2503 6.357 | ±.0002 ±.005 | 5,400 | .08 .04 |
| | CCYR 7/8 S | | | N/A | | | | | | | | |
| CYR 1 | CYR 1 S | .09 2.4 | .78 19.8 | .03 .8 | .3120 7.925 | ±.0002 ±.005 | .3126 7.940 | ±.0002 ±.005 | .3128 7.945 | ±.0002 ±.005 | 4,800 | .15 .07 |
| | CCYR 1 S | | | N/A | | | | | | | | |
| CYR 1 1/8 | CYR 1 1/8 S | .09 2.4 | .78 19.8 | .03 .8 | .3120 7.925 | ±.0002 ±.005 | .3126 7.940 | ±.0002 ±.005 | .3128 7.945 | ±.0002 ±.005 | 3,400 | .17 .08 |
| | CCYR 1 1/8 S | | | N/A | | | | | | | | |
| CYR 1 1/4 | CYR 1 1/4 S | .09 2.4 | .98 25.0 | .03 .8 | .3745 9.512 | ±.0002 ±.005 | .3751 9.527 | ±.0002 ±.005 | .3753 9.532 | ±.0002 ±.005 | 3,100 | .24 .11 |
| | CCYR 1 1/4 S | | | N/A | | | | | | | | |
| CYR 1 3/8 | CYR 1 3/8 S | .09 2.4 | .98 25.0 | .05 1.2 | .3745 9.512 | ±.0002 ±.005 | .3751 9.527 | ±.0002 ±.005 | .3753 9.532 | ±.0002 ±.005 | 2,800 | .30 .14 |
| | CCYR 1 3/8 S | | | N/A | | | | | | | | |
| CYR 1 1/2 | CYR 1 1/2 S | .09 2.4 | 1.09 27.8 | .06 1.6 | .4370 11.100 | ±.0002 ±.005 | .4376 11.115 | ±.0002 ±.005 | .4378 11.120 | ±.0002 ±.005 | 2,500 | .41 .19 |
| | CCYR 1 1/2 S | | | N/A | | | | | | | | |
| CYR 1 5/8 | CYR 1 5/8 S | .09 2.4 | 1.09 27.8 | .06 1.6 | .4370 11.100 | ±.0002 ±.005 | .4376 11.115 | ±.0002 ±.005 | .4378 11.120 | ±.0002 ±.005 | 2,350 | .50 .23 |
| | CCYR 1 5/8 S | | | N/A | | | | | | | | |
| CYR 1 3/4 | CYR 1 3/4 S | .09 2.4 | 1.25 31.8 | .06 1.6 | .4995 12.687 | ±.0002 ±.005 | .5001 12.703 | ±.0002 ±.005 | .5005 12.713 | ±.0002 ±.005 | 2,200 | .64 .29 |
| | CCYR 1 3/4 S | | | N/A | | | | | | | | |

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Yoke Type Crowned/
Cylindrical Outside Diameter
- Rolling Elements:** Full Complement/Needle
Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2



CYR

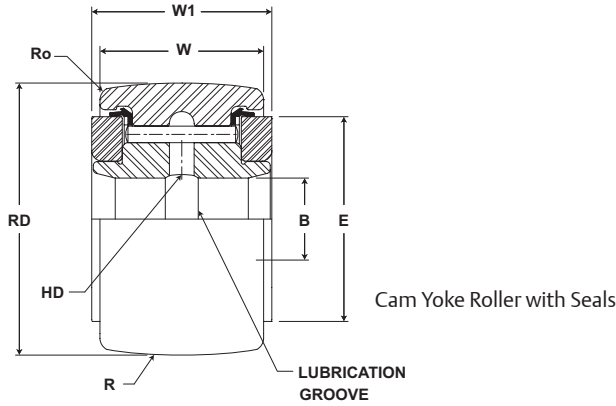
| Part No. | | RD | | W | | B | | W1 | | R | Track Roller Dynamic Rating | Track Roller Static Rating |
|-----------|-----------------------------|-----------------|-----------|--------------|-----------|---------------|----------------|---------------|--------------|----------------------|-----------------------------------|----------------------------------|
| W/O Seals | With LUBRI-DISC Seals | Roller Diameter | | Roller Width | | Bore Diameter | | Overall Width | | Crown | | |
| | | inch mm | | inch mm | | inch mm | | inch mm | | Prefix CCYR-XX | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | inch mm Radius | lb/N | lb/N |
| CYR 1 7/8 | CYR 1 7/8 S | 1.875 | +0/-0.001 | 1.000 | +0/-0.005 | .500 | +0.001/-0.0005 | 1.0625 | +0.005/-0.01 | Cylindrical | 6,385 28,400 | 115,840 515,256 |
| | CCYR 1 7/8 S | 47.63 | +0/-0.03 | 25.40 | +0/-0.13 | 12.70 | +0.003/-0.0013 | 26.98 | +0.13/-0.25 | 20 508 | | |
| CYR 2 | CYR 2 S | 2.000 | +0/-0.001 | 1.250 | +0/-0.005 | .625 | +0.001/-0.0005 | 1.3125 | +0.005/-0.01 | Cylindrical | 8,090 35,984 | 21,140 94,031 |
| | CCYR 2 S | 50.80 | +0/-0.03 | 31.75 | +0/-0.13 | 15.88 | +0.003/-0.0013 | 33.34 | +0.13/-0.25 | 24 610 | | |
| CYR 2 1/4 | CYR 2 1/4 S | 2.250 | +0/-0.001 | 1.250 | +0/-0.005 | .625 | +0.001/-0.0005 | 1.3125 | +0.005/-0.01 | Cylindrical | 8,090 35,984 | 21,140 94,031 |
| | CCYR 2 1/4 S | 57.15 | +0/-0.03 | 31.75 | +0/-0.13 | 15.88 | +0.003/-0.0013 | 33.34 | +0.13/-0.25 | 24 610 | | |
| CYR 2 1/2 | CYR 2 1/2 S | 2.500 | +0/-0.001 | 1.500 | +0/-0.005 | .750 | +0.001/-0.0005 | 1.5625 | +0.005/-0.01 | Cylindrical | 11,720 52,131 | 32,900 146,339 |
| | CCYR 2 1/2 S | 63.50 | +0/-0.03 | 38.10 | +0/-0.13 | 19.05 | +0.003/-0.0013 | 39.69 | +0.13/-0.25 | 30 762 | | |
| CYR 2 3/4 | CYR 2 3/4 S | 2.750 | +0/-0.001 | 1.500 | +0/-0.005 | .750 | +0.001/-0.0005 | 1.5625 | +0.005/-0.01 | Cylindrical | 11,720 52,131 | 32,900 146,339 |
| | CCYR 2 3/4 S | 69.85 | +0/-0.03 | 38.10 | +0/-0.13 | 19.05 | +0.003/-0.0013 | 39.69 | +0.13/-0.25 | 30 762 | | |
| CYR 3 | CYR 3 S | 3.000 | +0/-0.001 | 1.750 | +0/-0.005 | 1.000 | +0.001/-0.0005 | 1.8125 | +0.005/-0.01 | Cylindrical | 15,720 69,923 | 49,820 221,599 |
| | CCYR 3 S | 76.20 | +0/-0.03 | 44.45 | +0/-0.13 | 25.40 | +0.003/-0.0013 | 46.04 | +0.13/-0.25 | 30 762 | | |
| CYR 3 1/4 | CYR 3 1/4 S | 3.250 | +0/-0.001 | 1.750 | +0/-0.005 | 1.000 | +0.001/-0.0005 | 1.8125 | +0.005/-0.01 | Cylindrical | 15,720 69,923 | 49,820 221,599 |
| | CCYR 3 1/4 S | 82.55 | +0/-0.03 | 44.45 | +0/-0.13 | 25.40 | +0.003/-0.0013 | 46.04 | +0.13/-0.25 | 30 762 | | |
| CYR 3 1/2 | CYR 3 1/2 S | 3.500 | +0/-0.001 | 2.000 | +0/-0.005 | 1.125 | +0.001/-0.0005 | 2.0625 | +0.005/-0.01 | Cylindrical | 22,800 101,414 | 63,250 281,336 |
| | CCYR 3 1/2 S | 88.90 | +0/-0.03 | 50.80 | +0/-0.13 | 28.58 | +0.003/-0.0013 | 52.39 | +0.13/-0.25 | 30 762 | | |
| CYR 4 | CYR 4 S | 4.000 | +0/-0.001 | 2.250 | +0/-0.005 | 1.250 | +0.001/-0.0005 | 2.3125 | +0.005/-0.01 | Cylindrical | 29,985 133,373 | 89,540 398,274 |
| | CCYR 4 S | 101.60 | +0/-0.03 | 57.15 | +0/-0.13 | 31.75 | +0.003/-0.0013 | 58.74 | +0.13/-0.25 | 30 762 | | |

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**



CYR

| Part No. | | HD | E | Ro | Recommended Shaft Diameters | | | | | | Limiting Speed | WT |
|-----------|-----------------------|---------------|------------------------|--------------|-----------------------------|----------------------------------|------------------|----------------------------------|------------------|----------------------------------|----------------|----------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Diameter | Min. Clamping Diameter | Outer Corner | Push Fit | | Drive Fit | | Press Fit | | RPM | Bearing Weight |
| | | inch mm | | | inch mm | | inch mm | | inch mm | | | lb kg |
| | | (Ref) | (Ref) | (Ref) | Nom | Tol | Nom | Tol | Nom | Tol | | |
| CYR 1 7/8 | CYR 1 7/8 S | .09 2.4 | 1.25 31.8 | .06 1.6 | .4995 12.687 | ±.0002 ±.005 | .5001 12.703 | ±.0002 ±.005 | .5005 12.713 | ±.0002 ±.005 | 2,000 | .80 .36 |
| | CCYR 1 7/8 S | | | N/A | | | | | | | | |
| CYR 2 | CYR 2 S | .13 3.2 | 1.41 35.7 | .09 2.4 | .6245 15.862 | ±.0002 ±.005 | .6245 15.862 | ±.0002 ±.005 | .6245 15.862 | ±.0002 ±.005 | 1,400 | 1.05 .48 |
| | CCYR 2 S | | | N/A | | | | | | | | |
| CYR 2 1/4 | CYR 2 1/4 S | .13 3.2 | 1.41 35.7 | .09 2.4 | .6245 15.862 | ±.0002 ±.005 | .6251 15.877 | ±.0002 ±.005 | .6255 15.887 | ±.0002 ±.005 | 1,300 | 1.32 .59 |
| | CCYR 2 1/4 S | | | N/A | | | | | | | | |
| CYR 2 1/2 | CYR 2 1/2 S | .13 3.2 | 1.69 42.9 | .09 2.4 | .7495 19.037 | ±.0002 ±.005 | .7501 19.053 | ±.0002 ±.005 | .75015 19.063 | ±.0002 ±.005 | 1,100 | 1.80 .82 |
| | CCYR 2 1/2 S | | | N/A | | | | | | | | |
| CYR 2 3/4 | CYR 2 3/4 S | .13 3.2 | 1.69 42.9 | .09 2.4 | .7495 19.037 | ±.0002 ±.005 | .7501 19.053 | ±.0002 ±.005 | .75015 19.063 | ±.0002 ±.005 | 1,050 | 2.25 1.02 |
| | CCYR 2 3/4 S | | | N/A | | | | | | | | |
| CYR 3 | CYR 3 S | .13 3.2 | 2.13 54.0 | .13 3.2 | .9994 25.385 | +0.0002/-0.0003 +0.005/-0.008 | 1.0002 25.405 | +0.0002/-0.0003 +0.005/-0.008 | 1.0006 25.415 | +0.0002/-0.0003 +0.005/-0.008 | 950 | 3.10 1.41 |
| | CCYR 3 S | | | N/A | | | | | | | | |
| CYR 3 1/4 | CYR 3 1/4 S | .13 3.2 | 2.13 54.0 | .13 3.2 | .9994 25.385 | +0.0002/-0.0003 +0.005/-0.008 | 1.0002 25.405 | +0.0002/-0.0003 +0.005/-0.008 | 1.0006 25.415 | +0.0002/-0.0003 +0.005/-0.008 | 880 | 3.62 1.64 |
| | CCYR 3 1/4 S | | | N/A | | | | | | | | |
| CYR 3 1/2 | CYR 3 1/2 S | .13 3.2 | 2.44 61.9 | .13 3.2 | 1.1244 28.560 | +0.0002/-0.0003 +0.005/-0.008 | 1.1252 28.580 | +0.0002/-0.0003 +0.005/-0.008 | 1.1256 28.590 | +0.0002/-0.0003 +0.005/-0.008 | 820 | 4.95 2.25 |
| | CCYR 3 1/2 S | | | N/A | | | | | | | | |
| CYR 4 | CYR 4 S | .13 3.2 | 2.80 71.0 | .13 3.2 | 1.2494 31.735 | +0.0002/-0.0003 +0.005/-0.008 | 1.2502 31.755 | +0.0002/-0.0003 +0.005/-0.008 | 1.2506 31.765 | +0.0002/-0.0003 +0.005/-0.008 | 700 | 7.05 3.19 |
| | CCYR 4 S | | | N/A | | | | | | | | |

McGILL® Inch Cam Follower Bearings



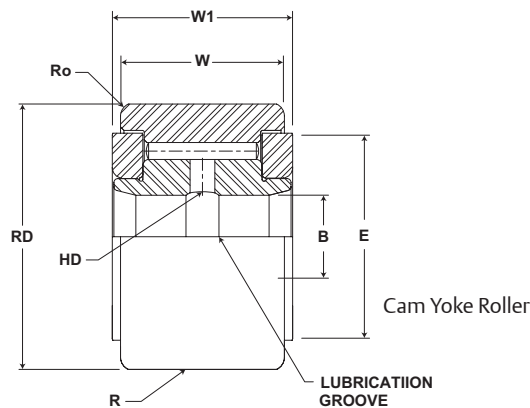
Basic Construction Type: Yoke Type Crowned/
Cylindrical Outside Diameter

Rolling Elements: Full Complement/Needle
Roller

Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2



CYR

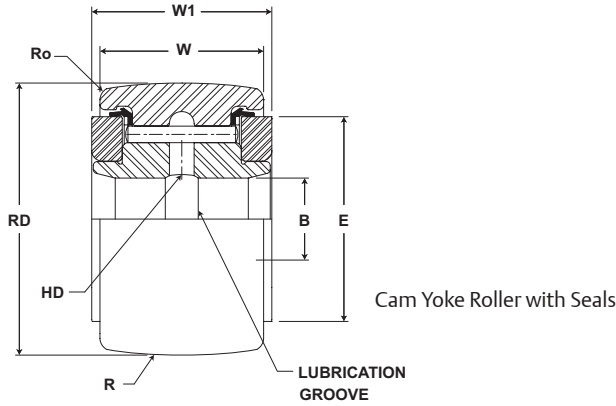
| Part No. | | RD | | W | | B | | W1 | | R | Track Roller Dynamic Rating | Track Roller Static Rating |
|-----------|-----------------------------|-----------------|-----------|--------------|-----------|---------------|------------------------|------------------|--------------|----------------------|-----------------------------------|----------------------------------|
| W/O Seals | With LUBRI-DISC Seals | Roller Diameter | | Roller Width | | Bore Diameter | | Overall Width | | Crown | | |
| | | inch mm | | inch mm | | inch mm | | inch mm | | Prefix CCYR-XX | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | inch mm Radius | lb/N | lb/N |
| - | CYR 5 S | 5.000 | +0/-0.001 | 2.750 | +0/-0.005 | 1.750 | +0.001/-0.0005 | 2.875 | +0.005/-0.01 | Cylindrical | 46,575 207,166 | 135,900 604,483 |
| | CCYR 5 S | 127.00 | +0/-0.03 | 69.85 | +0/-0.13 | 44.45 | +0.0003/-0.0013 | 73.03 | +0.13/-0.25 | 48 1,219 | | |
| - | CYR 6 S | 6.000 | +0/-0.001 | 3.250 | +0/-0.005 | 2.250 | +0.001/-0.0005 | 3.375 | +0.005/-0.01 | Cylindrical | 60,000 266,880 | 160,900 715,683 |
| | CCYR 6 S | 152.40 | +0/-0.03 | 82.55 | +0/-0.13 | 57.15 | +0.0003/-0.0013 | 85.725 | +0.13/-0.25 | 56 1,422 | | |
| - | CYR 7 S | 7.000 | +0/-0.001 | 3.750 | +0/-0.005 | 2.750 | +0.001/-0.0005 | 3.875 | +0.005/-0.01 | Cylindrical | 75,380 335,290 | 213,860 951,249 |
| | CCYR 7 S | 177.80 | +0/-0.03 | 95.25 | +0/-0.13 | 69.85 | +0.0003/-0.0013 | 98.43 | +0.13/-0.25 | 60 1,524 | | |
| - | CYR 8 S | 8.000 | * | 4.250 | * | 3.255 | +0.001/-0 +0.025/-0 | 4.50 | +0.005/-0.01 | Cylindrical | 92,200 410,106 | 288,200 1,281,914 |
| | CCYR 8 S | 203.20 | | 107.95 | | 82.68 | | 114.3 | +0.13/-0.25 | 40 1,016 | | |
| - | CYR 9 S | 9.000 | * | 4.750 | * | 3.755 | +0.001/-0 +0.025/-0 | 5.00 | +0.005/-0.01 | Cylindrical | 113,260 503,780 | 366,850 1,631,749 |
| | CCYR 9 S | 228.60 | | 120.65 | | 95.38 | | 127.0 | +0.13/-0.25 | 40 1,016 | | |
| - | CYR 10 S | 10.000 | * | 5.250 | * | 4.255 | +0.001/-0 +0.025/-0 | 5.50 | +0.005/-0.01 | Cylindrical | 131,545 585,112 | 431,130 1,917,666 |
| | CCYR 10 S | 254.00 | | 133.35 | | 108.08 | | 139.7 | +0.13/-0.25 | 40 1,016 | | |

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**



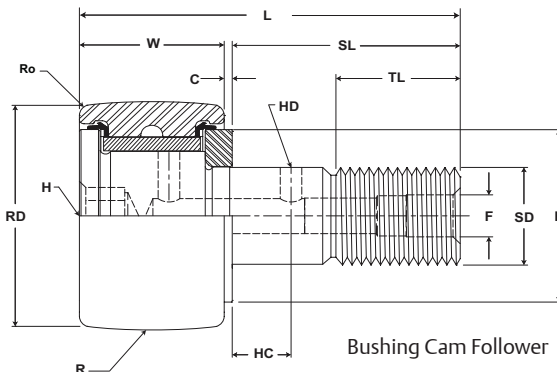
CYR

| Part No. | | HD | E | Ro | Recommended Shaft Diameters | | | | | | Limiting Speed | WT |
|-----------|-----------------------|---------------|------------------------|--------------|-----------------------------|--------------------------------|-------------------|--------------------------------|-------------------|--------------------------------|----------------|----------------|
| W/O Seals | With LUBRI-DISC Seals | Hole Diameter | Min. Clamping Diameter | Outer Corner | Push Fit | | Drive Fit | | Press Fit | | RPM | Bearing Weight |
| | | inch mm | | | inch mm | | inch mm | | inch mm | | | lb kg |
| | | (Ref) | (Ref) | (Ref) | Nom | Tol | Nom | Tol | Nom | Tol | | |
| - | CYR 5 S | .19 4.8 | 3.56 90.5 | .13 3.2 | 1.7494 44.435 | +0.002/-0.003 +0.005/-0.008 | 1.7502 44.455 | +0.002/-0.003 +0.005/-0.008 | 1.7506 44.465 | +0.002/-0.003 +0.005/-0.008 | 575 | 14.34 6.59 |
| | CCYR 5 S | | | N/A | | | | | | | | |
| - | CYR 6 S | .19 4.8 | 4.47 113.5 | .13 3.2 | 2.2494 57.135 | +0.002/-0.003 +0.005/-0.008 | 2.2502 57.155 | +0.002/-0.003 +0.005/-0.008 | 2.2506 57.165 | +0.002/-0.003 +0.005/-0.008 | 475 | 20.16 9.14 |
| | CCYR 6 S | | | N/A | | | | | | | | |
| - | CYR 7 S | .19 4.8 | 5.19 131.8 | .13 3.2 | 2.7494 69.835 | +0.002/-0.003 +0.005/-0.008 | 2.7502 69.855 | +0.002/-0.003 +0.005/-0.008 | 2.7506 69.865 | +0.002/-0.003 +0.005/-0.008 | 400 | 32.43 14.71 |
| | CCYR 7 S | | | N/A | | | | | | | | |
| - | CYR 8 S | .25 6.4 | 4.38 111.1 | .22 5.6 | 3.2545 82.664 | ±0.005 ±0.013 | 3.2560 82.702 | ±0.005 ±0.013 | 3.2565 82.715 | ±0.005 ±0.013 | 350 | 47.30 21.45 |
| | CCYR 8 S | | | N/A | | | | | | | | |
| - | CYR 9 S | .31 7.9 | 5.06 128.6 | .25 6.4 | 3.7545 95.364 | ±0.005 ±0.013 | 3.7560 95.402 | ±0.005 ±0.013 | 3.7565 95.415 | ±0.005 ±0.013 | 300 | 65.70 29.80 |
| | CCYR 9 S | | | N/A | | | | | | | | |
| - | CYR 10 S | .38 9.5 | 5.47 138.9 | .28 7.1 | 4.2545 108.064 | ±0.005 ±0.013 | 4.2560 108.102 | ±0.005 ±0.013 | 4.2565 108.115 | ±0.005 ±0.013 | 275 | 89.20 40.46 |
| | CCYR 10 S | | | 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

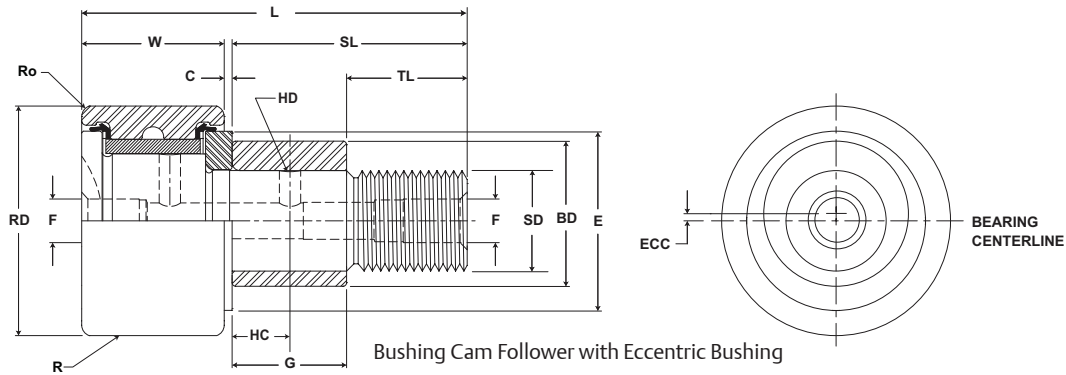
| Part No. | RD | | W | | SD | | SL | C | TL | L | R | ECC | G | BD | Track Roller Dynamic Rating | Track Roller Static Rating |
|----------------|-----------------|-----------------------|----------------|---------------------------|---------------|-----------------------|--------------|--------------------|-----------------------|----------------|----------------------|---------------------------------|----------------------|----------------|-----------------------------|----------------------------|
| | Roller Diameter | | Roller Width | | Stud Diameter | | Stud Length | Endplate Extension | Minimum Thread Length | Length Overall | Crown Prefix BCCF-XX | Eccentric 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/- .001 (+0/- .03) | ± .001 (± .03) | | |
| BCF 1/2 S | .500 12.70 | +0/- .001 +0/- .03 | .375 9.53 | +0 / - .005 +0 / - .13 | .190 4.83 | + .001/-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 | |
| BCF 1/2 SB | | | | | | | | | | | | | | | | |
| BCCF 1/2 S | | | | | | | | | | | | | | | | |
| BCCF 1/2 SB | | | | | | | | | | | | | | | | |
| BCFE 1/2 S | .500 12.70 | +0/- .001 +0/- .03 | .375 9.53 | +0 / - .005 +0 / - .13 | .190 4.83 | + .001/-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 | |
| BCFE 1/2 SB | | | | | | | | | | | | | | | | |
| BCCFE 1/2 S | | | | | | | | | | | | | | | | |
| BCCFE 1/2 SB | | | | | | | | | | | | | | | | |
| BCF 9/16 S | .5625 14.29 | +0/- .001 +0/- .03 | .375 9.53 | +0 / - .005 +0 / - .13 | .190 4.83 | + .001/-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 | |
| BCF 9/16 SB | | | | | | | | | | | | | | | | |
| BCCF 9/16 S | | | | | | | | | | | | | | | | |
| BCCF 9/16 SB | | | | | | | | | | | | | | | | |
| BCFE 9/16 S | .5625 14.29 | +0/- .001 +0/- .03 | .375 9.53 | +0 / - .005 +0 / - .13 | .190 4.83 | + .001/-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 | |
| BCFE 9/16 SB | | | | | | | | | | | | | | | | |
| BCCFE 9/16 S | | | | | | | | | | | | | | | | |
| BCCFE 9/16 SB | | | | | | | | | | | | | | | | |
| BCF 5/8 S | .625 15.88 | +0/- .001 +0/- .03 | .4375 11.11 | +0 / - .005 +0 / - .13 | .250 6.35 | + .001/-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 | |
| BCF 5/8 SB | | | | | | | | | | | | | | | | |
| BCCF 5/8 S | | | | | | | | | | | | | | | | |
| BCCF 5/8 SB | | | | | | | | | | | | | | | | |
| BCFE 5/8 S | .625 15.88 | +0/- .001 +0/- .03 | .4375 11.11 | +0 / - .005 +0 / - .13 | .250 6.35 | + .001/-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 | |
| BCFE 5/8 SB | | | | | | | | | | | | | | | | |
| BCCFE 5/8 S | | | | | | | | | | | | | | | | |
| BCCFE 5/8 SB | | | | | | | | | | | | | | | | |
| BCF 11/16 S | .6875 17.46 | +0/- .001 +0/- .03 | .4375 11.11 | +0 / - .005 +0 / - .13 | .250 6.35 | + .001/-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 | |
| BCF 11/16 SB | | | | | | | | | | | | | | | | |
| BCCF 11/16 S | | | | | | | | | | | | | | | | |
| BCCF 11/16 SB | | | | | | | | | | | | | | | | |
| BCFE 11/16 S | .6875 17.46 | +0/- .001 +0/- .03 | .4375 11.11 | +0 / - .005 +0 / - .13 | .250 6.35 | + .001/-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 | |
| BCFE 11/16 SB | | | | | | | | | | | | | | | | |
| BCCFE 11/16 S | | | | | | | | | | | | | | | | |
| BCCFE 11/16 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**



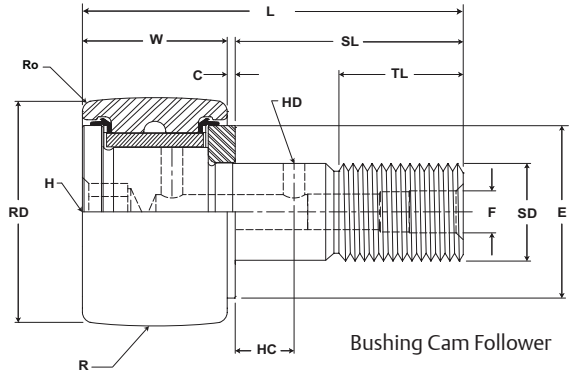
BCF, BCFE

| Part No. | HC | HD | F | H | E | Ro | Housing Bore Diameter | | Thread Type | Clamping Torque | Limiting Speed | WT |
|----------------|-------------|----------------------|---------------------------|----------|-------------------|---------------------|-----------------------|---------------|-------------|-----------------|----------------------|----------------|
| | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Hex Hole | Min Boss Diameter | Outer Corner Radius | inch mm | | | in-lb Nm | RPM | Bearing Weight |
| | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | lb kg | | |
| BCF 1/2 S | | | | | | .02 | | | | | | |
| BCF 1/2 SB | | | .125 | .125 | .41 | .4 | .1903 | +0.002/-0.003 | 10-32 | 15 | See Load-Speed Chart | .04 |
| BCCF 1/2 S | - | - | 3.17 | 3.17 | 10.4 | | 4.834 | +0.005/-0.008 | | 2 | | .02 |
| BCCF 1/2 SB | | | | | | N/A | | | | | | |
| BCFE 1/2 S | | | | | | .02 | | | | | | |
| BCFE 1/2 SB | | | .125 | .125 | .41 | .4 | .253 | +0.001/-0.001 | 10-32 | 15 | See Load-Speed Chart | .04 |
| BCCFE 1/2 S | - | - | 3.17 | 3.17 | 10.4 | | 6.426 | +0.025/-0.025 | | 2 | | .02 |
| BCCFE 1/2 SB | | | | | | N/A | | | | | | |
| BCF 9/16 S | | | | | | .02 | | | | | | |
| BCF 9/16 SB | | | .125 | .125 | .41 | .4 | .1903 | +0.002/-0.003 | 10-32 | 15 | See Load-Speed Chart | .04 |
| BCCF 9/16 S | - | - | 3.17 | 3.17 | 10.4 | | 4.834 | +0.005/-0.008 | | 2 | | .02 |
| BCCF 9/16 SB | | | | | | N/A | | | | | | |
| BCFE 9/16 S | | | | | | .02 | | | | | | |
| BCFE 9/16 SB | | | .125 | .125 | .41 | .4 | .253 | +0.001/-0.001 | 10-32 | 15 | See Load-Speed Chart | .04 |
| BCCFE 9/16 S | - | - | 3.17 | 3.17 | 10.4 | | 6.426 | +0.025/-0.025 | | 2 | | .02 |
| BCCFE 9/16 SB | | | | | | N/A | | | | | | |
| BCF 5/8 S | | | | | | .02 | | | | | | |
| BCF 5/8 SB | | | .125 | .125 | .46 | .4 | .2503 | +0.002/-0.003 | 1/4-28 | 35 | See Load-Speed Chart | .05 |
| BCCF 5/8 S | - | - | 3.17 | 3.17 | 11.7 | | 6.358 | +0.005/-0.008 | | 4 | | .02 |
| BCCF 5/8 SB | | | | | | N/A | | | | | | |
| BCFE 5/8 S | | | | | | .02 | | | | | | |
| BCFE 5/8 SB | | | .125 | .125 | .46 | .4 | .378 | +0.001/-0.001 | 1/4-28 | 35 | See Load-Speed Chart | .05 |
| BCCFE 5/8 S | - | - | 3.17 | 3.17 | 11.7 | | 9.60 | +0.025/-0.025 | | 4 | | .02 |
| BCCFE 5/8 SB | | | | | | N/A | | | | | | |
| BCF 11/16 S | | | | | | .02 | | | | | | |
| BCF 11/16 SB | | | .125 | .125 | .46 | .4 | .2503 | +0.002/-0.003 | 1/4-28 | 35 | See Load-Speed Chart | .06 |
| BCCF 11/16 S | - | - | 3.17 | 3.17 | 11.7 | | 6.358 | +0.005/-0.008 | | 4 | | .03 |
| BCCF 11/16 SB | | | | | | N/A | | | | | | |
| BCFE 11/16 S | | | | | | .02 | | | | | | |
| BCFE 11/16 SB | | | .125 | .125 | .46 | .4 | .378 | +0.001/-0.001 | 1/4-28 | 35 | See Load-Speed Chart | .06 |
| BCCFE 11/16 S | - | - | 3.17 | 3.17 | 11.7 | | 9.60 | +0.025/-0.025 | | 4 | | .03 |
| 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

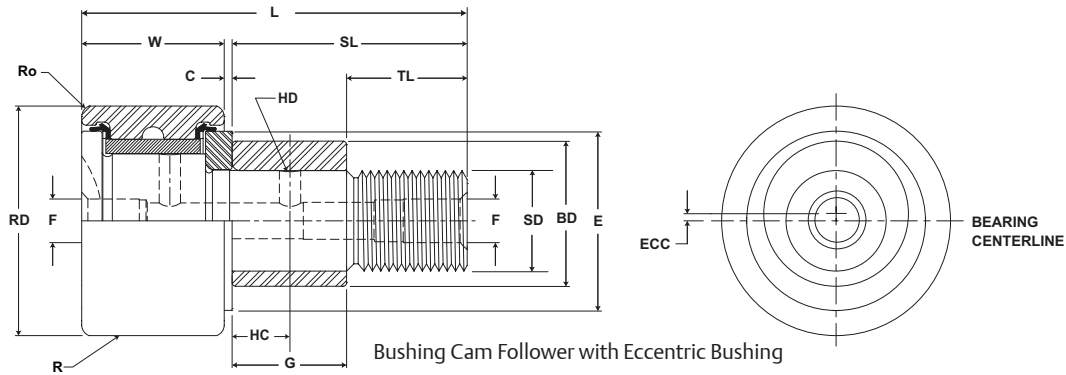


BCF, BCFE

| Part No. | RD | | W | | SD | | SL | C | TL | L | R | ECC | G | BD | Track Roller Dynamic Rating | Track Roller Static Rating |
|----------------|-----------------|-----------------------|---------------|---------------------------|----------------|-----------------------|--------------|--------------------|-----------------------|----------------|----------------------|---------------------------------|----------------------|----------------|-----------------------------|----------------------------|
| | Roller Diameter | | Roller Width | | Stud Diameter | | Stud Length | Endplate Extension | Minimum Thread Length | Length Overall | Crown Prefix BCCF-XX | Eccentric 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/- .001 (+0/- .03) | ± .001 (± .03) | | |
| BCF 3/4 S | .750 19.05 | +0/- .001 +0/- .03 | .500 12.70 | +0 / - .005 +0 / - .13 | .375 9.53 | + .001/-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 | | | | | | | | | | | | | | | | |
| BCCF 3/4 SB | | | | | | | | | | 10 254 | | | | | | |
| BCFE 3/4 S | .750 19.05 | +0/- .001 +0/- .03 | .500 12.70 | +0 / - .005 +0 / - .13 | .375 9.53 | + .001/-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 | | | | | | | | | | | | | | | | |
| BCCFE 3/4 SB | | | | | | | | | | 10 254 | | | | | | |
| BCF 7/8 S | .875 22.23 | +0/- .001 +0/- .03 | .500 12.70 | +0 / - .005 +0 / - .13 | .375 9.53 | + .001/-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 | | | | | | | | | | | | | | | | |
| BCCF 7/8 SB | | | | | | | | | | 10 254 | | | | | | |
| BCFE 7/8 S | .875 22.23 | +0/- .001 +0/- .03 | .500 12.70 | +0 / - .005 +0 / - .13 | .375 9.53 | + .001/-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 | | | | | | | | | | | | | | | | |
| BCCFE 7/8 SB | | | | | | | | | | 10 254 | | | | | | |
| BCF 1 S | 1.000 25.40 | +0/- .001 +0/- .03 | .625 15.88 | +0 / - .005 +0 / - .13 | .4375 11.11 | + .001/-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 | | | | | | | | | | | | | | | | |
| BCCF 1 SB | | | | | | | | | | 12 305 | | | | | | |
| BCFE 1 S | 1.000 25.40 | +0/- .001 +0/- .03 | .625 15.88 | +0 / - .005 +0 / - .13 | .4375 11.11 | + .001/-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 | | | | | | | | | | | | | | | | |
| BCCFE 1 SB | | | | | | | | | | 12 305 | | | | | | |
| BCF 1 1/8 S | 1.125 28.58 | +0/- .001 +0/- .03 | .625 15.88 | +0 / - .005 +0 / - .13 | .4375 11.11 | + .001/-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 | | | | | | | | | | | | | | | | |
| BCCF 1 1/8 SB | | | | | | | | | | 12 305 | | | | | | |
| BCFE 1 1/8 S | 1.125 28.58 | +0/- .001 +0/- .03 | .625 15.88 | +0 / - .005 +0 / - .13 | .4375 11.11 | + .001/-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 | | | | | | | | | | | | | | | | |
| BCCFE 1 1/8 SB | | | | | | | | | | 12 305 | | | | | | |

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**



BCF, BCFE

| Part No. | HC | HD | F | H | E | R ₀ | Housing Bore Diameter | | Thread Type | Clamping Torque | Limiting Speed | WT |
|----------------|-------------|----------------------|---------------------------|----------|-------------------|---------------------|-----------------------|-----------------|-------------|-----------------|----------------------|----------------|
| | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Hex Hole | Min Boss Diameter | Outer Corner Radius | in mm | | | in-lb Nm | RPM | Bearing Weight |
| | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Norm. | Tol. | | lb kg | | |
| BCF 3/4 S | | | | | | .02 | | | | | | |
| BCF 3/4 SB | .25 | .09 | .1875 | .1875 | .61 | .4 | .3753 | +0.0002/-0.0003 | 3/8-24 | 95 | See Load-Speed Chart | .07 |
| BCCF 3/4 S | 6.4 | 2.4 | 4.76 | 4.76 | 15.5 | N/A | 9.533 | +0.0005/-0.0008 | | | | |
| BCCF 3/4 SB | | | | | | | | | | | | |
| BCFE 3/4 S | | | | | | .02 | | | | | | |
| BCFE 3/4 SB | .25 | .09 | .1875 | .1875 | .61 | .4 | .503 | +0.001/-0.001 | 3/8-24 | 95 | See Load-Speed Chart | .07 |
| BCCFE 3/4 S | 6.4 | 2.4 | 4.76 | 4.76 | 15.5 | N/A | 12.77 | +0.025/-0.025 | | | | |
| BCCFE 3/4 SB | | | | | | | | | | | | |
| BCF 7/8 S | | | | | | .02 | | | | | | |
| BCF 7/8 SB | .25 | .09 | .1875 | .1875 | .61 | .4 | .3753 | +0.0002/-0.0003 | 3/8-24 | 95 | See Load-Speed Chart | .09 |
| BCCF 7/8 S | 6.4 | 2.4 | 4.76 | 4.76 | 15.5 | N/A | 9.533 | +0.0005/-0.0008 | | | | |
| BCCF 7/8 SB | | | | | | | | | | | | |
| BCFE 7/8 S | | | | | | .02 | | | | | | |
| BCFE 7/8 SB | .25 | .09 | .1875 | .1875 | .61 | .4 | .503 | +0.001/-0.001 | 3/8-24 | 95 | See Load-Speed Chart | .09 |
| BCCFE 7/8 S | 6.4 | 2.4 | 4.76 | 4.76 | 15.5 | N/A | 12.77 | +0.025/-0.025 | | | | |
| BCCFE 7/8 SB | | | | | | | | | | | | |
| BCF 1 S | | | | | | .03 | | | | | | |
| BCF 1 SB | .25 | .09 | .1875 | .25 | .78 | .8 | .4378 | +0.0002/-0.0003 | 7/16-20 | 250 | See Load-Speed Chart | .17 |
| BCCF 1 S | 6.4 | 2.4 | 4.76 | 6.4 | 19.8 | N/A | 11.120 | +0.0005/-0.0008 | | | | |
| BCCF 1 SB | | | | | | | | | | | | |
| BCFE 1 S | | | | | | .03 | | | | | | |
| BCFE 1 SB | .25 | .09 | .1875 | .25 | .78 | .8 | .628 | +0.001/-0.001 | 7/16-20 | 250 | See Load-Speed Chart | .17 |
| BCCFE 1 S | 6.4 | 2.4 | 4.76 | 6.4 | 19.8 | N/A | 15.95 | +0.025/-0.025 | | | | |
| BCCFE 1 SB | | | | | | | | | | | | |
| BCF 1 1/8 S | | | | | | .03 | | | | | | |
| BCF 1 1/8 SB | .25 | .09 | .1875 | .25 | .78 | .8 | .4378 | +0.0002/-0.0003 | 7/16-20 | 250 | See Load-Speed Chart | .19 |
| BCCF 1 1/8 S | 6.4 | 2.4 | 4.76 | 6.4 | 19.8 | N/A | 11.120 | +0.0005/-0.0008 | | | | |
| BCCF 1 1/8 SB | | | | | | | | | | | | |
| BCFE 1 1/8 S | | | | | | .03 | | | | | | |
| BCFE 1 1/8 SB | .25 | .09 | .1875 | .25 | .78 | .8 | .628 | +0.001/-0.001 | 7/16-20 | 250 | See Load-Speed Chart | .19 |
| BCCFE 1 1/8 S | 6.4 | 2.4 | 4.76 | 6.4 | 19.8 | N/A | 15.95 | +0.025/-0.025 | | | | |
| BCCFE 1 1/8 SB | | | | | | | | | | | | |

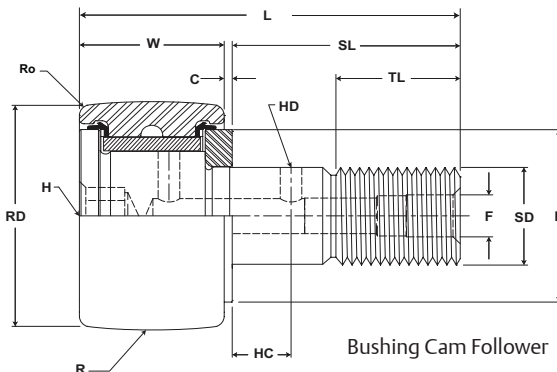
Metric dimensions for reference only.

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

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

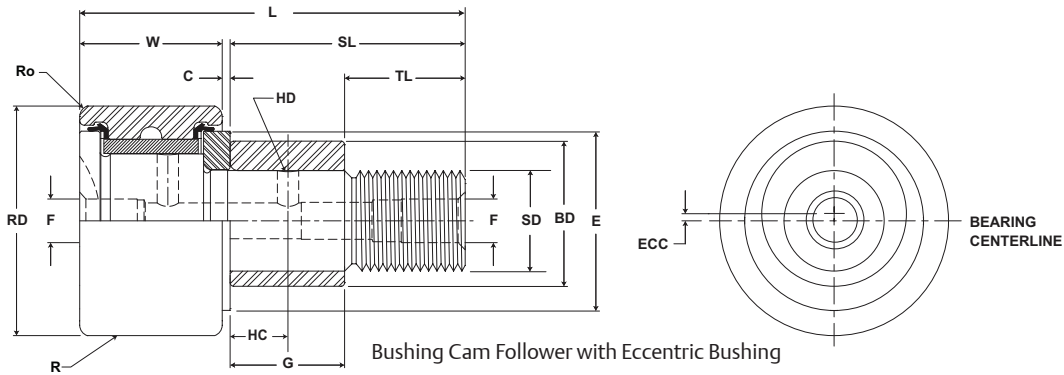
| Part No. | RD | | W | | SD | | SL | C | TL | L | R | ECC | G | BD | Track Roller Dynamic Rating | Track Roller Static Rating |
|----------------|-----------------|------|--------------|------|---------------|------|-------------|--------------------|-----------------------|----------------|----------------------|---------------------------------|---------------------|----------------|-----------------------------|----------------------------|
| | Roller Diameter | | Roller Width | | Stud Diameter | | Stud Length | Endplate Extension | Minimum Thread Length | Length Overall | Crown Prefix BCCF-XX | Eccentric 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/- .001 (+/- .03) | ± .001 (± .03) | | |
| BCF 1 1/4 S | 1.250 | | .750 | | .500 | | 1.25 | .03 | .63 | 2.03 | Cylindrical | N/A | N/A | N/A | See Load-Speed Chart | |
| BCF 1 1/4 SB | +0/- .001 | | +0 / - .005 | | + .001/-0 | | .8 | .63 | 15.9 | 14 | | | | | | |
| BCCF 1 1/4 S | +0/- .03 | | +0 / - .13 | | + .03/-0 | | | | | | | | | | | |
| BCCF 1 1/4 SB | | | | | | | | | | | | | | | | |
| BCFE 1 1/4 S | 1.250 | | .750 | | .500 | | 1.25 | .03 | .63 | 2.03 | Cylindrical | .030 | .63 | .69 | See Load-Speed Chart | |
| BCFE 1 1/4 SB | +0/- .001 | | +0 / - .005 | | + .001/-0 | | .8 | .63 | 15.9 | 14 | | | | | | |
| BCCFE 1 1/4 S | +0/- .03 | | +0 / - .13 | | + .03/-0 | | | | | | | | | | | |
| BCCFE 1 1/4 SB | | | | | | | | | | | | | | | | |
| BCF 1 3/8 S | 1.375 | | .750 | | .500 | | 1.25 | .03 | .63 | 2.03 | Cylindrical | N/A | N/A | N/A | See Load-Speed Chart | |
| BCF 1 3/8 SB | +0/- .001 | | +0 / - .005 | | + .001/-0 | | .8 | .63 | 15.9 | 14 | | | | | | |
| BCCF 1 3/8 S | +0/- .03 | | +0 / - .13 | | + .03/-0 | | | | | | | | | | | |
| BCCF 1 3/8 SB | | | | | | | | | | | | | | | | |
| BCFE 1 3/8 S | 1.375 | | .750 | | .500 | | 1.25 | .03 | .63 | 2.03 | Cylindrical | .030 | .63 | .69 | See Load-Speed Chart | |
| BCFE 1 3/8 SB | +0/- .001 | | +0 / - .005 | | + .001/-0 | | .8 | .63 | 15.9 | 14 | | | | | | |
| BCCFE 1 3/8 S | +0/- .03 | | +0 / - .13 | | + .03/-0 | | | | | | | | | | | |
| BCCFE 1 3/8 SB | | | | | | | | | | | | | | | | |
| BCF 1 1/2 S | 1.500 | | .875 | | .625 | | 1.50 | .03 | .75 | 2.41 | Cylindrical | N/A | N/A | N/A | See Load-Speed Chart | |
| BCF 1 1/2 SB | +0/- .001 | | +0 / - .005 | | + .001/-0 | | .8 | .75 | 19.1 | 20 | | | | | | |
| BCCF 1 1/2 S | +0/- .03 | | +0 / - .13 | | + .03/-0 | | | | | | | | | | | |
| BCCF 1 1/2 SB | | | | | | | | | | | | | | | | |
| BCFE 1 1/2 S | 1.500 | | .875 | | .625 | | 1.50 | .03 | .75 | 2.41 | Cylindrical | .030 | .75 | .88 | See Load-Speed Chart | |
| BCFE 1 1/2 SB | +0/- .001 | | +0 / - .005 | | + .001/-0 | | .8 | .75 | 19.1 | 20 | | | | | | |
| BCCFE 1 1/2 S | +0/- .03 | | +0 / - .13 | | + .03/-0 | | | | | | | | | | | |
| BCCFE 1 1/2 SB | | | | | | | | | | | | | | | | |
| BCF 1 5/8 S | 1.625 | | .875 | | .625 | | 1.50 | .03 | .75 | 2.41 | Cylindrical | N/A | N/A | N/A | See Load-Speed Chart | |
| BCF 1 5/8 SB | +0/- .001 | | +0 / - .005 | | + .001/-0 | | .8 | .75 | 19.1 | 20 | | | | | | |
| BCCF 1 5/8 S | +0/- .03 | | +0 / - .13 | | + .03/-0 | | | | | | | | | | | |
| BCCF 1 5/8 SB | | | | | | | | | | | | | | | | |
| BCFE 1 5/8 S | 1.625 | | .875 | | .625 | | 1.50 | .03 | .75 | 2.41 | Cylindrical | .030 | .75 | .88 | See Load-Speed Chart | |
| BCFE 1 5/8 SB | +0/- .001 | | +0 / - .005 | | + .001/-0 | | .8 | .75 | 19.1 | 20 | | | | | | |
| BCCFE 1 5/8 S | +0/- .03 | | +0 / - .13 | | + .03/-0 | | | | | | | | | | | |
| BCCFE 1 5/8 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**



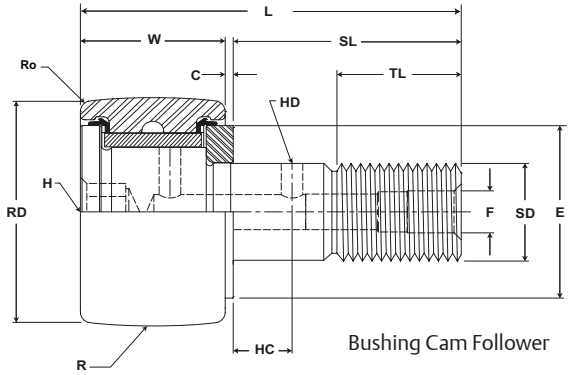
BCF, BCFE

| Part No. | HC | HD | F | H | E | Ro | Housing Bore Diameter | | Thread Type | Clamping Torque | Limiting Speed | WT |
|----------------|-------------|----------------------|---------------------------|------------|-------------------|---------------------|-----------------------|----------------------------------|-------------|-----------------|----------------------|----------------|
| | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Hex Hole | Min Boss Diameter | Outer Corner Radius | | | | in-lb Nm | RPM | Bearing Weight |
| | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | inch mm | inch mm | | | | lb kg |
| BCF 1 1/4 S | | | | | | .03 | .5003 12.708 | +.0002/- .0003 +.0005/- .0008 | 1/2-20 | 350 40 | See Load-Speed Chart | .30 .14 |
| BCF 1 1/4 SB | .31 7.9 | .09 2.4 | .1875 4.76 | .25 6.4 | .98 25.0 | .8 | | | | | | |
| BCCF 1 1/4 S | | | | | | N/A | | | | | | |
| BCCF 1 1/4 SB | | | | | | N/A | | | | | | |
| BCFE 1 1/4 S | | | | | | .03 | .690 17.52 | +.001/- .001 +.025/- .025 | 1/2-20 | 350 40 | See Load-Speed Chart | .30 .14 |
| BCFE 1 1/4 SB | .31 7.9 | .09 2.4 | .1875 4.76 | .25 6.4 | .98 25.0 | .8 | | | | | | |
| BCCFE 1 1/4 S | | | | | | N/A | | | | | | |
| BCCFE 1 1/4 SB | | | | | | N/A | | | | | | |
| BCF 1 3/8 S | | | | | | .05 | .5003 12.708 | +.0002/- .0003 +.0005/- .0008 | 1/2-20 | 350 40 | See Load-Speed Chart | .35 .16 |
| BCF 1 3/8 SB | .31 7.9 | .09 2.4 | .1875 4.76 | .25 6.4 | .98 25.0 | 1.2 | | | | | | |
| BCCF 1 3/8 S | | | | | | N/A | | | | | | |
| BCCF 1 3/8 SB | | | | | | N/A | | | | | | |
| BCFE 1 3/8 S | | | | | | .05 | .690 17.52 | +.001/- .001 +.025/- .025 | 1/2-20 | 350 40 | See Load-Speed Chart | .35 .16 |
| BCFE 1 3/8 SB | .31 7.9 | .09 2.4 | .1875 4.76 | .25 6.4 | .98 25.0 | 1.2 | | | | | | |
| BCCFE 1 3/8 S | | | | | | N/A | | | | | | |
| BCCFE 1 3/8 SB | | | | | | N/A | | | | | | |
| BCF 1 1/2 S | | | | | | .06 | .6253 15.883 | +.0002/- .0003 +.0005/- .0008 | 5/8-18 | 650 73 | See Load-Speed Chart | .53 .24 |
| BCF 1 1/2 SB | .38 9.5 | .09 2.4 | .1875 4.76 | .31 7.9 | 1.09 27.8 | 1.6 | | | | | | |
| BCCF 1 1/2 S | | | | | | N/A | | | | | | |
| BCCF 1 1/2 SB | | | | | | N/A | | | | | | |
| BCFE 1 1/2 S | | | | | | .06 | .878 22.30 | +.001/- .001 +.025/- .025 | 5/8-18 | 650 73 | See Load-Speed Chart | .53 .24 |
| BCFE 1 1/2 SB | .38 9.5 | .09 2.4 | .1875 4.76 | .31 7.9 | 1.09 27.8 | 1.6 | | | | | | |
| BCCFE 1 1/2 S | | | | | | N/A | | | | | | |
| BCCFE 1 1/2 SB | | | | | | N/A | | | | | | |
| BCF 1 5/8 S | | | | | | .06 | .6253 15.883 | +.0002/- .0003 +.0005/- .0008 | 5/8-18 | 650 73 | See Load-Speed Chart | .60 .27 |
| BCF 1 5/8 SB | .38 9.5 | .09 2.4 | .1875 4.76 | .31 7.9 | 1.09 27.8 | 1.6 | | | | | | |
| BCCF 1 5/8 S | | | | | | N/A | | | | | | |
| BCCF 1 5/8 SB | | | | | | N/A | | | | | | |
| BCFE 1 5/8 S | | | | | | .06 | .878 22.30 | +.001/- .001 +.025/- .025 | 5/8-18 | 650 73 | See Load-Speed Chart | .60 .27 |
| BCFE 1 5/8 SB | .38 9.5 | .09 2.4 | .1875 4.76 | .31 7.9 | 1.09 27.8 | 1.6 | | | | | | |
| BCCFE 1 5/8 S | | | | | | N/A | | | | | | |
| 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

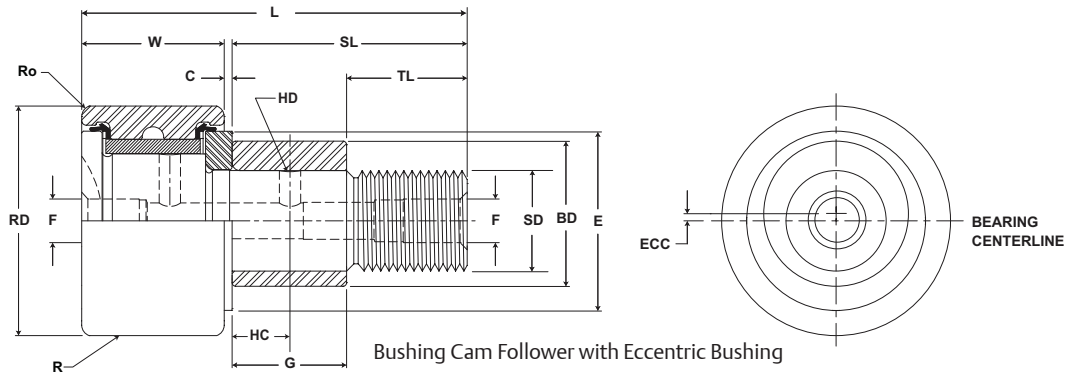


BCF, BCFE

| Part No. | RD | | W | | SD | | SL | C | TL | L | R | ECC | G | BD | Track Roller Dynamic Rating | Track Roller Static Rating |
|----------------|-----------------|---------------------|----------------|--------------------------|---------------|---------------------|--------------|--------------------|-----------------------|----------------|----------------------|---------------------------------|--------------------|--------------|-----------------------------|----------------------------|
| | 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 | inch mm | inch mm | | | | |
| | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | (Ref) | +0/-.001 (+0/-.03) | ±.001 (±.03) | | |
| BCF 1 3/4 S | 1.750 44.45 | +0/-.001 +0/-.03 | 1.000 25.40 | 0 / - .005 +0 / - .13 | .750 19.05 | +.001/-0 +.03/-0 | 1.75 44.5 | .03 .8 | .88 22.2 | 2.78 70.6 | Cylindrical | N/A | N/A | N/A | See Load-Speed Chart | |
| BCCF 1 3/4 S | | | | | | | | | | | 20 | | | | | |
| BCCF 1 3/4 SB | | | | | | | | | | | 508 | | | | | |
| BCFE 1 3/4 S | 1.750 44.45 | +0/-.001 +0/-.03 | 1.000 25.40 | 0 / - .005 +0 / - .13 | .750 19.05 | +.001/-0 +.03/-0 | 1.75 44.5 | .03 .8 | .88 22.2 | 2.78 70.6 | Cylindrical | .030 .76 | .88 22.2 | .00 25.4 | See Load-Speed Chart | |
| BCCFE 1 3/4 S | | | | | | | | | | | 20 | | | | | |
| BCCFE 1 3/4 SB | | | | | | | | | | | 508 | | | | | |
| BCF 1 7/8 S | 1.875 47.63 | +0/-.001 +0/-.03 | 1.000 25.40 | 0 / - .005 +0 / - .13 | .750 19.05 | +.001/-0 +.03/-0 | 1.75 44.5 | .03 .8 | .88 22.2 | 2.78 70.6 | Cylindrical | N/A | N/A | N/A | See Load-Speed Chart | |
| BCCF 1 7/8 S | | | | | | | | | | | 20 | | | | | |
| BCCF 1 7/8 SB | | | | | | | | | | | 508 | | | | | |
| BCFE 1 7/8 S | 1.875 47.63 | +0/-.001 +0/-.03 | 1.000 25.40 | 0 / - .005 +0 / - .13 | .750 19.05 | +.001/-0 +.03/-0 | 1.75 44.5 | .03 .8 | .88 22.2 | 2.78 70.6 | Cylindrical | .030 .76 | .88 22.2 | .00 25.4 | See Load-Speed Chart | |
| BCCFE 1 7/8 S | | | | | | | | | | | 20 | | | | | |
| BCCFE 1 7/8 SB | | | | | | | | | | | 508 | | | | | |
| BCF 2 S | 2.000 50.80 | +0/-.001 +0/-.03 | 1.250 31.75 | 0 / - .005 +0 / - .13 | .875 22.23 | +.001/-0 +.03/-0 | 2.00 50.8 | .03 .8 | 2.00 50.8 | 3.28 83.3 | Cylindrical | N/A | N/A | N/A | See Load-Speed Chart | |
| BCCF 2 S | | | | | | | | | | | 24 | | | | | |
| BCCF 2 SB | | | | | | | | | | | 610 | | | | | |
| BCFE 2 S | 2.000 50.80 | +0/-.001 +0/-.03 | 1.250 31.75 | 0 / - .005 +0 / - .13 | .875 22.23 | +.001/-0 +.03/-0 | 2.00 50.8 | .03 .8 | 2.00 50.8 | 3.28 83.3 | Cylindrical | .030 .76 | .00 25.4 | .19 30.1 | See Load-Speed Chart | |
| BCCFE 2 S | | | | | | | | | | | 24 | | | | | |
| BCCFE 2 SB | | | | | | | | | | | 610 | | | | | |
| BCF 2 1/4 S | 2.250 57.15 | +0/-.001 +0/-.03 | 1.250 31.75 | 0 / - .005 +0 / - .13 | .875 22.23 | +.001/-0 +.03/-0 | 2.00 50.8 | .03 .8 | 2.00 50.8 | 3.28 83.3 | Cylindrical | N/A | N/A | N/A | See Load-Speed Chart | |
| BCCF 2 1/4 S | | | | | | | | | | | 24 | | | | | |
| BCCF 2 1/4 SB | | | | | | | | | | | 610 | | | | | |
| BCFE 2 1/4 S | 2.250 57.15 | +0/-.001 +0/-.03 | 1.250 31.75 | 0 / - .005 +0 / - .13 | .875 22.23 | +.001/-0 +.03/-0 | 2.00 50.8 | .03 .8 | 2.00 50.8 | 3.28 83.3 | Cylindrical | .030 .76 | .00 25.4 | .19 30.1 | See Load-Speed Chart | |
| BCCFE 2 1/4 S | | | | | | | | | | | 24 | | | | | |
| BCCFE 2 1/4 SB | | | | | | | | | | | 610 | | | | | |

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**



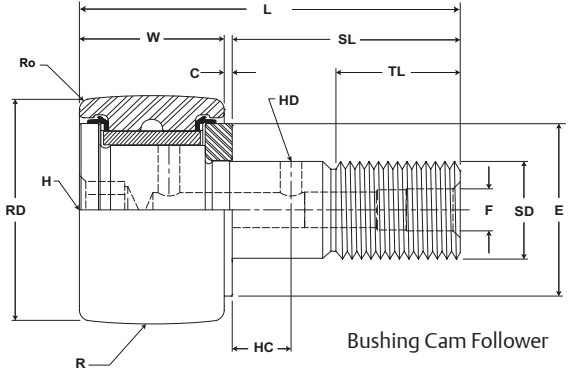
BCF, BCFE

| Part No. | HC | HD | F | H | E | Ro | Housing Bore Diameter | | Thread Type | Clamping Torque | Limiting Speed | WT |
|----------------|-------------|----------------------|---------------------------|-------------|-------------------|---------------------|-----------------------|----------------------------------|-------------|-----------------|----------------------|----------------|
| | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Hex Hole | Min Boss Diameter | Outer Corner Radius | inch mm | | | in-lb Nm | RPM | Bearing Weight |
| | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Norm. | Tol. | | lb kg | | |
| BCF 1 3/4 S | .44 11.1 | .125 3 | .1875 4.76 | .31 7.9 | 1.25 31.8 | .06 1.6 | .7503 19.058 | +.0002/- .0003 +.0005/- .0008 | 3/4-16 | 1,250 141 | See Load-Speed Chart | .84 .38 |
| BCF 1 3/4 SB | | | | | | N/A | | | | | | |
| BCCF 1 3/4 S | | | | | | N/A | | | | | | |
| BCCF 1 3/4 SB | | | | | | N/A | | | | | | |
| BCFE 1 3/4 S | .44 11.1 | .125 3 | .1875 4.76 | .31 7.9 | 1.25 31.8 | .06 1.6 | 1.003 25.47 | +.001/- .001 +.025/- .025 | 3/4-16 | 1,250 141 | See Load-Speed Chart | .84 .38 |
| BCFE 1 3/4 SB | | | | | | N/A | | | | | | |
| BCCFE 1 3/4 S | | | | | | N/A | | | | | | |
| BCCFE 1 3/4 SB | | | | | | N/A | | | | | | |
| BCF 1 7/8 S | .44 11.1 | .125 3 | .1875 4.76 | .31 7.9 | 1.25 31.8 | .06 1.6 | .7503 19.058 | +.0002/- .0003 +.0005/- .0008 | 3/4-16 | 1,250 141 | See Load-Speed Chart | .95 .43 |
| BCF 1 7/8 SB | | | | | | N/A | | | | | | |
| BCCF 1 7/8 S | | | | | | N/A | | | | | | |
| BCCF 1 7/8 SB | | | | | | N/A | | | | | | |
| BCFE 1 7/8 S | .44 11.1 | .125 3 | .1875 4.76 | .31 7.9 | 1.25 31.8 | .06 1.6 | 1.003 25.47 | +.001/- .001 +.025/- .025 | 3/4-16 | 1,250 141 | See Load-Speed Chart | .95 .43 |
| BCFE 1 7/8 SB | | | | | | N/A | | | | | | |
| BCCFE 1 7/8 S | | | | | | N/A | | | | | | |
| BCCFE 1 7/8 SB | | | | | | N/A | | | | | | |
| BCF 2 S | .50 12.7 | .125 3 | .1875 4.76 | .44 11.1 | 1.41 35.7 | .09 2.4 | .8753 22.233 | +.0002/- .0003 +.0005/- .0008 | 7/8-14 | 1,500 170 | See Load-Speed Chart | 1.36 .62 |
| BCF 2 SB | | | | | | N/A | | | | | | |
| BCCF 2 S | | | | | | N/A | | | | | | |
| BCCF 2 SB | | | | | | N/A | | | | | | |
| BCFE 2 S | .50 12.7 | .125 3 | .1875 4.76 | .44 11.1 | 1.41 35.7 | .09 2.4 | 1.190 30.22 | +.001/- .001 +.025/- .025 | 7/8-14 | 1,500 170 | See Load-Speed Chart | 1.36 .62 |
| BCFE 2 SB | | | | | | N/A | | | | | | |
| BCCFE 2 S | | | | | | N/A | | | | | | |
| BCCFE 2 SB | | | | | | N/A | | | | | | |
| BCF 2 1/4 S | .50 12.7 | .125 3 | .1875 4.76 | .44 11.1 | 1.41 35.7 | .09 2.4 | .8753 22.233 | +.0002/- .0003 +.0005/- .0008 | 7/8-14 | 1,500 170 | See Load-Speed Chart | 1.65 .75 |
| BCF 2 1/4 SB | | | | | | N/A | | | | | | |
| BCCF 2 1/4 S | | | | | | N/A | | | | | | |
| BCCF 2 1/4 SB | | | | | | N/A | | | | | | |
| BCFE 2 1/4 S | .50 12.7 | .125 3 | .1875 4.76 | .44 11.1 | 1.41 35.7 | .09 2.4 | .8753 22.233 | +.001/- .001 +.025/- .025 | 7/8-14 | 1,500 170 | See Load-Speed Chart | 1.65 .75 |
| BCFE 2 1/4 SB | | | | | | N/A | | | | | | |
| BCCFE 2 1/4 S | | | | | | N/A | | | | | | |
| BCCFE 2 1/4 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

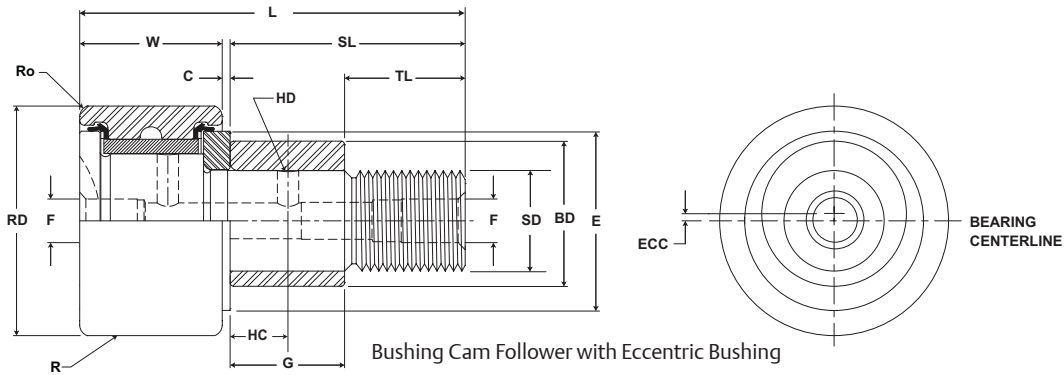
| Part No. | RD | | W | | SD | | SL | C | TL | L | R | ECC | G | BD | Track Roller Dynamic Rating | Track Roller Static Rating |
|------------------------------------------------------------------|-----------------|-----------------------|----------------|---------------------------|----------------|-----------------------|--------------|--------------------|-----------------------|----------------|--------------------------|---------------------------------|----------------------|----------------|-----------------------------|----------------------------|
| | 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 | inch mm | inch mm | | | | |
| | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | (Ref) | +0/- .001 (+0/- .03) | ± .001 (± .03) | | |
| BCF 2 1/2 S BCF 2 1/2 SB BCCF 2 1/2 S BCCF 2 1/2 SB | 2.500 63.50 | +0/- .001 +0/- .03 | 1.500 38.10 | +0 / - .005 +0 / - .13 | 1.000 25.40 | + .001/-0 + .03/-0 | 2.25 57.2 | .03 .8 | 2.25 57.2 | 3.78 96.0 | Cylindrical 30 762 | N/A | N/A | N/A | See Load-Speed Chart | |
| BCFE 2 1/2 S BCFE 2 1/2 SB BCCFE 2 1/2 S BCCFE 2 1/2 SB | 2.500 63.50 | +0/- .001 +0/- .03 | 1.500 38.10 | +0 / - .005 +0 / - .13 | 1.000 25.40 | + .001/-0 + .03/-0 | 2.25 57.2 | .03 .8 | 2.25 57.2 | 3.78 96.0 | Cylindrical 30 762 | .030 .76 | .13 28.6 | .38 34.9 | See Load-Speed Chart | |
| BCF 2 3/4 S BCF 2 3/4 SB BCCF 2 3/4 S BCCF 2 3/4 SB | 2.750 69.85 | +0/- .001 +0/- .03 | 1.500 38.10 | +0 / - .005 +0 / - .13 | 1.000 25.40 | + .001/-0 + .03/-0 | 2.25 57.2 | .03 .8 | 2.25 57.2 | 3.78 96.0 | Cylindrical 30 762 | N/A | N/A | N/A | See Load-Speed Chart | |
| BCFE 2 3/4 S BCFE 2 3/4 SB BCCFE 2 3/4 S BCCFE 2 3/4 SB | 2.750 69.85 | +0/- .001 +0/- .03 | 1.500 38.10 | +0 / - .005 +0 / - .13 | 1.000 25.40 | + .001/-0 + .03/-0 | 2.25 57.2 | .03 .8 | 2.25 57.2 | 3.78 96.0 | Cylindrical 30 762 | .030 .76 | .13 28.6 | .38 34.9 | See Load-Speed Chart | |
| BCF 3 S BCF 3 SB BCCF 3 S BCCF 3 SB | 3.000 76.20 | +0/- .001 +0/- .03 | 1.750 44.45 | +0 / - .005 +0 / - .13 | 1.250 31.75 | + .001/-0 + .03/-0 | 2.50 63.5 | .03 .8 | 2.50 63.5 | 4.28 108.7 | Cylindrical 30 762 | N/A | N/A | N/A | See Load-Speed Chart | |
| BCFE 3 S BCFE 3 SB BCCFE 3 S BCCFE 3 SB | 3.000 76.20 | +0/- .001 +0/- .03 | 1.750 44.45 | +0 / - .005 +0 / - .13 | 1.250 31.75 | + .001/-0 + .03/-0 | 2.50 63.5 | .03 .8 | 2.50 63.5 | 4.28 108.7 | Cylindrical 30 762 | .060 .52 | .25 31.8 | .75 44.5 | See Load-Speed Chart | |
| BCF 3 1/4 S BCF 3 1/4 SB BCCF 3 1/4 S BCCF 3 1/4 SB | 3.250 82.55 | +0/- .001 +0/- .03 | 1.750 44.45 | +0 / - .005 +0 / - .13 | 1.250 31.75 | + .001/-0 + .03/-0 | 2.50 63.5 | .03 .8 | 2.50 63.5 | 4.28 108.7 | Cylindrical 30 762 | N/A | N/A | N/A | See Load-Speed Chart | |
| BCFE 3 1/4 S BCFE 3 1/4 SB BCCFE 3 1/4 S BCCFE 3 1/4 SB | 3.250 82.55 | +0/- .001 +0/- .03 | 1.750 44.45 | +0 / - .005 +0 / - .13 | 1.250 31.75 | + .001/-0 + .03/-0 | 2.50 63.5 | .03 .8 | 2.50 63.5 | 4.28 108.7 | Cylindrical 30 762 | .060 .52 | .25 31.8 | .75 44.5 | See Load-Speed Chart | |

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**



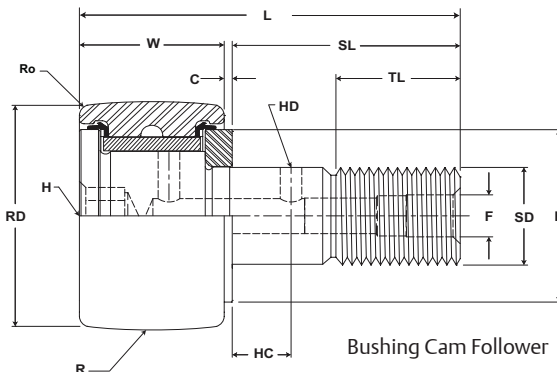
BCF, BCFE

| Part No. | HC | HD | F | H | E | Ro | Housing Bore Diameter | | Thread Type | Clamping Torque | Limiting Speed | WT |
|----------------|-------------|----------------------|---------------------------|----------|-------------------|---------------------|-----------------------|-----------------|-------------|-----------------|----------------------|----------------|
| | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Hex Hole | Min Boss Diameter | Outer Corner Radius | inches | | | in-lb Nm | RPM | Bearing Weight |
| | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Norm. | Tol. | | lb kg | | |
| BCF 2 1/2 S | | | | | | .09 | | | | | | |
| BCF 2 1/2 SB | .56 | .125 | .1875 | .50 | 1.69 | 2.4 | 1.0003 | +0.0002/-0.0003 | 1-14 | 2,250 | See Load-Speed Chart | 2.50 |
| BCCF 2 1/2 S | 14.3 | 3 | 4.76 | 12.7 | 42.9 | | 25.408 | +0.0005/-0.0008 | | | | |
| BCCF 2 1/2 SB | | | | | | N/A | | | | | | |
| BCFE 2 1/2 S | | | | | | .09 | | | | | | |
| BCFE 2 1/2 SB | .56 | .125 | .1875 | .50 | 1.69 | 2.4 | 1.378 | +0.001/-0.001 | 1-14 | 2,250 | See Load-Speed Chart | 2.50 |
| BCCFE 2 1/2 S | 14.3 | 3 | 4.76 | 12.7 | 42.9 | | 35.00 | +0.025/-0.025 | | | | |
| BCCFE 2 1/2 SB | | | | | | N/A | | | | | | |
| BCF 2 3/4 S | | | | | | .09 | | | | | | |
| BCF 2 3/4 SB | .56 | .125 | .1875 | .50 | 1.69 | 2.4 | 1.0003 | +0.0002/-0.0003 | 1-14 | 2,250 | See Load-Speed Chart | 2.93 |
| BCCF 2 3/4 S | 14.3 | 3 | 4.76 | 12.7 | 42.9 | | 25.408 | +0.0005/-0.0008 | | | | |
| BCCF 2 3/4 SB | | | | | | N/A | | | | | | |
| BCFE 2 3/4 S | | | | | | .09 | | | | | | |
| BCFE 2 3/4 SB | .56 | .125 | .1875 | .50 | 1.69 | 2.4 | 1.378 | +0.001/-0.001 | 1-14 | 2,250 | See Load-Speed Chart | 2.93 |
| BCCFE 2 3/4 S | 14.3 | 3 | 4.76 | 12.7 | 42.9 | | 35.00 | +0.025/-0.025 | | | | |
| BCCFE 2 3/4 SB | | | | | | N/A | | | | | | |
| BCF 3 S | | | | | | .13 | | | | | | |
| BCF 3 SB | .63 | .125 | .25 | .75 | 2.13 | 3.2 | 1.2503 | +0.0002/-0.0003 | 1 1/4-12 | 3,450 | See Load-Speed Chart | 4.20 |
| BCCF 3 S | 15.9 | 3 | 6.4 | 19.1 | 54.0 | | 31.758 | +0.0005/-0.0008 | | | | |
| BCCF 3 SB | | | | | | N/A | | | | | | |
| BCFE 3 S | | | | | | .13 | | | | | | |
| BCFE 3 SB | .63 | .125 | .25 | .75 | 2.13 | 3.2 | 1.753 | +0.001/-0.001 | 1 1/4-12 | 3,450 | See Load-Speed Chart | 4.20 |
| BCCFE 3 S | 15.9 | 3 | 6.4 | 19.1 | 54.0 | | 44.52 | +0.025/-0.025 | | | | |
| BCCFE 3 SB | | | | | | N/A | | | | | | |
| BCF 3 1/4 S | | | | | | .13 | | | | | | |
| BCF 3 1/4 SB | .63 | .125 | .25 | .75 | 2.13 | 3.2 | 1.2503 | +0.0002/-0.0003 | 1 1/4-12 | 3,450 | See Load-Speed Chart | 4.81 |
| BCCF 3 1/4 S | 15.9 | 3 | 6.4 | 19.1 | 54.0 | | 31.758 | +0.0005/-0.0008 | | | | |
| BCCF 3 1/4 SB | | | | | | N/A | | | | | | |
| BCFE 3 1/4 S | | | | | | .13 | | | | | | |
| BCFE 3 1/4 SB | .63 | .125 | .25 | .75 | 2.13 | 3.2 | 1.753 | +0.001/-0.001 | 1 1/4-12 | 3,450 | See Load-Speed Chart | 4.81 |
| BCCFE 3 1/4 S | 15.9 | 3 | 6.4 | 19.1 | 54.0 | | 44.52 | +0.025/-0.025 | | | | |
| BCCFE 3 1/4 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

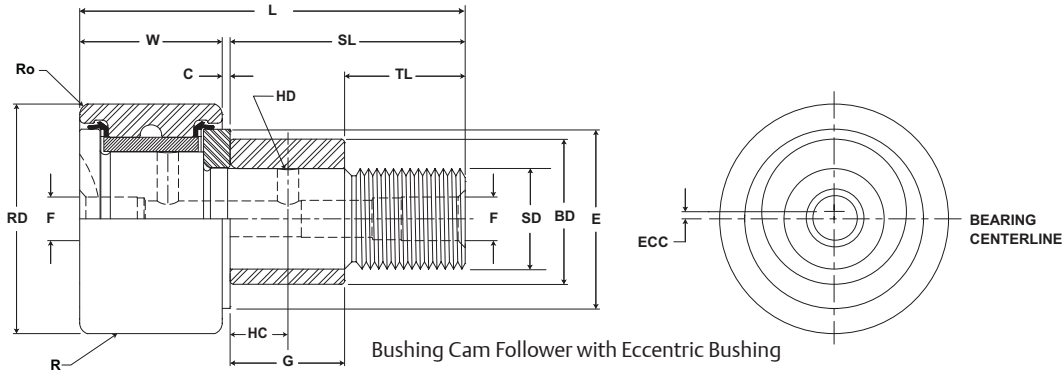


BCF, BCFE

| Part No. | RD | | W | | SD | | SL | C | TL | L | R | ECC | G | BD | Track Roller Dynamic Rating | Track Roller Static Rating |
|----------------|-----------------|-----------------------|----------------|---------------------------|----------------|---------------------|--------------|--------------------|-----------------------|----------------|----------------------|---------------------------------|---------------------|----------------|-----------------------------|----------------------------|
| | Roller Diameter | | Roller Width | | Stud Diameter | | Stud Length | Endplate Extension | Minimum Thread Length | Length Overall | Crown Prefix BCCF-XX | Eccentric 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/-.001 (+0/- .03) | ± .001 (± .03) | | |
| BCF 3 1/2 S | 3.500 88.90 | +0/- .001 +0/- .03 | 2.000 50.80 | +0 / - .005 +0 / - .13 | 1.375 34.93 | +.001/-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 | |
| BCCF 3 1/2 S | | | | | | | | | | | 30 | | | | | |
| BCCF 3 1/2 SB | | | | | | | | | | | 762 | | | | | |
| BCFE 3 1/2 S | 3.500 88.90 | +0/- .001 +0/- .03 | 2.000 50.80 | +0 / - .005 +0 / - .13 | 1.375 34.93 | +.001/-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 | | | | | | | | | | | 30 | | | | | |
| BCCFE 3 1/2 S | | | | | | | | | | | 762 | | | | | |
| BCCFE 3 1/2 SB | | | | | | | | | | | | | | | | |
| BCF 4 S | 4.000 101.60 | +0/- .001 +0/- .03 | 2.250 57.15 | +0 / - .005 +0 / - .13 | 1.500 38.10 | +.001/-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 | | | | | | | | | | | 30 | | | | | |
| BCCF 4 S | | | | | | | | | | | 762 | | | | | |
| BCCF 4 SB | | | | | | | | | | | | | | | | |
| BCFE 4 S | 4.000 101.60 | +0/- .001 +0/- .03 | 2.250 57.15 | +0 / - .005 +0 / - .13 | 1.500 38.10 | +.001/-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 | | | | | | | | | | | 30 | | | | | |
| BCCFE 4 S | | | | | | | | | | | 762 | | | | | |
| 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**



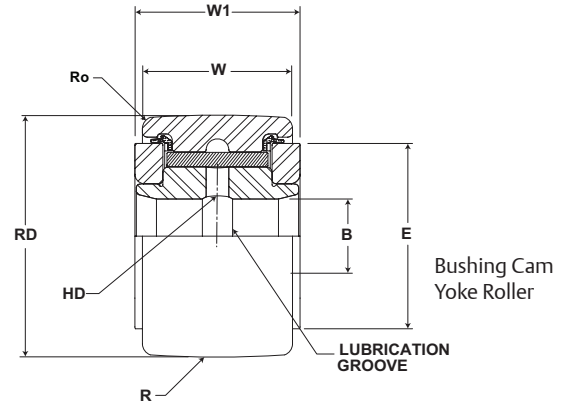
BCF, BCFE

| Part No. | HC | HD | F | H | E | Ro | Housing Bore Diameter | | Thread Type | Clamping Torque | Limiting Speed | WT |
|----------------|-------------|----------------------|---------------------------|-------------|-------------------|---------------------|-----------------------|----------------------------------|-------------|-----------------|----------------------|----------------|
| | Hole Center | Radial Hole Diameter | Axial Hole Dia or Fitting | Hex Hole | Min Boss Diameter | Outer Corner Radius | inch mm | | | in-lb Nm | RPM | Bearing Weight |
| | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | lb kg | | |
| BCF 3 1/2 S | .69 17.5 | .125 3 | .25 6.4 | .75 19.1 | 2.44 61.9 | .13 | 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 | | | | | | 3.2 | | | | | | |
| BCCF 3 1/2 S | | | | | | N/A | | | | | | |
| BCCF 3 1/2 SB | | | | | | N/A | | | | | | |
| BCFE 3 1/2 S | .69 17.5 | .125 3 | .25 6.4 | .75 19.1 | 2.44 61.9 | .13 | 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 | | | | | | 3.2 | | | | | | |
| BCCFE 3 1/2 S | | | | | | N/A | | | | | | |
| BCCFE 3 1/2 SB | | | | | | N/A | | | | | | |
| BCF 4 S | .75 19.1 | .125 3 | .25 6.4 | .75 19.1 | 2.80 71.0 | .13 | 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 | | | | | | 3.2 | | | | | | |
| BCCF 4 S | | | | | | N/A | | | | | | |
| BCCF 4 SB | | | | | | N/A | | | | | | |
| BCFE 4 S | .75 19.1 | .125 3 | .25 6.4 | .75 19.1 | 2.80 71.0 | .13 | 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 | | | | | | 3.2 | | | | | | |
| BCCFE 4 S | | | | | | N/A | | | | | | |
| BCCFE 4 SB | | | | | | N/A | | | | | | |

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Yoke 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 / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



BCYR

| Part No. | RD | | W | | B | | W1 | R | Track Roller Dynamic Rating | Track Roller Static Rating | | |
|---------------|-----------------|-----------|--------------|-----------|---------------|-----------------|------|-------------|-----------------------------|----------------------------|--------------------|----------|
| | Roller Diameter | | Roller Width | | Bore Diameter | | | | | | Endplate Extension | Crown |
| | inch mm | | inch mm | | inch mm | | | | | | Prefix | BCCYR-XX |
| | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | | | | | (Ref) | Radius |
| BCYR 3/4 S | .750 | +0/-0.001 | .500 | +0/-0.001 | .250 | +0.0002/-0.0004 | .56 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 3/4 S | 19.05 | +0/-0.03 | 12.70 | +0/-0.03 | 6.35 | +0.0005/-0.0010 | 14.3 | 10 254 | | | | |
| BCYR 7/8 S | .875 | +0/-0.001 | .500 | +0/-0.001 | .250 | +0.0002/-0.0004 | .56 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 7/8 S | 22.23 | +0/-0.03 | 12.70 | +0/-0.03 | 6.35 | +0.0005/-0.0010 | 14.3 | 10 254 | | | | |
| BCYR 1 S | 1.000 | +0/-0.001 | .625 | +0/-0.001 | .313 | +0.0002/-0.0004 | .69 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 1 S | 25.40 | +0/-0.03 | 15.88 | +0/-0.03 | 7.94 | +0.0005/-0.0010 | 17.5 | 12 305 | | | | |
| BCYR 1 1/8 S | 1.125 | +0/-0.001 | .625 | +0/-0.001 | .313 | +0.0002/-0.0004 | .69 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 1 1/8 S | 28.58 | +0/-0.03 | 15.88 | +0/-0.03 | 7.94 | +0.0005/-0.0010 | 17.5 | 12 305 | | | | |
| BCYR 1 1/4 S | 1.250 | +0/-0.001 | .750 | +0/-0.001 | .375 | +0.0002/-0.0004 | .81 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 1 1/4 S | 31.75 | +0/-0.03 | 19.05 | +0/-0.03 | 9.53 | +0.0005/-0.0010 | 20.6 | 14 356 | | | | |
| BCYR 1 3/8 S | 1.375 | +0/-0.001 | .750 | +0/-0.001 | .375 | +0.0002/-0.0004 | .81 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 1 3/8 S | 34.93 | +0/-0.03 | 19.05 | +0/-0.03 | 9.53 | +0.0005/-0.0010 | 20.6 | 14 356 | | | | |
| BCYR 1 1/2 S | 1.500 | +0/-0.001 | .875 | +0/-0.001 | .438 | +0.0002/-0.0004 | .94 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 1 1/2 S | 38.10 | +0/-0.03 | 22.23 | +0/-0.03 | 11.11 | +0.0005/-0.0010 | 23.8 | 20 508 | | | | |
| BCYR 1 5/8 S | 1.625 | +0/-0.001 | .875 | +0/-0.001 | .438 | +0.0002/-0.0004 | .94 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 1 5/8 S | 41.28 | +0/-0.03 | 22.23 | +0/-0.03 | 11.11 | +0.0005/-0.0010 | 23.8 | 20 508 | | | | |
| BCYR 1 3/4 S | 1.750 | +0/-0.001 | 1.000 | +0/-0.001 | .500 | +0.0002/-0.0004 | 1.06 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 1 3/4 S | 44.45 | +0/-0.03 | 25.40 | +0/-0.03 | 12.70 | +0.0005/-0.0010 | 27.0 | 20 508 | | | | |

Metric dimensions for reference only.
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Inch Cam Follower Bearings **McGILL**



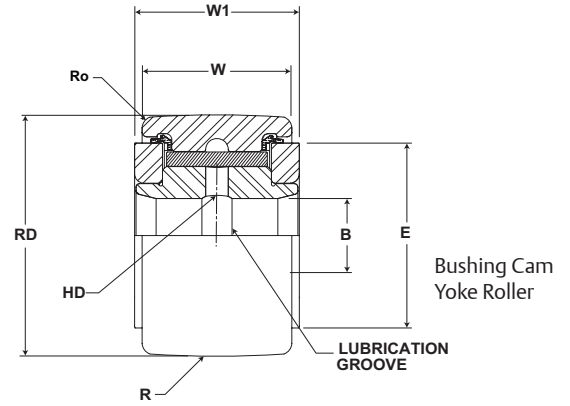
BCYR

| Part No. | HC | E | Ro | PF | PFT | PF | PFT | PF | PFT | Limiting Speed | WT |
|-----------------------|-------------|-------------------|--------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|------------|
| | Hole Center | Min Boss Diameter | Outer Corner | Recommended Shaft Diameters | | | | | | | RPM |
| | (Ref) | (Ref) | (Ref) | Push Fit | | Drive Fit | | Press Fit | | RPM | lb kg |
| | | | | inch mm | inch mm | inch mm | inch mm | inch mm | inch mm | | |
| With LUBRI-DISC Seals | (Ref) | (Ref) | (Ref) | Nom | Tol | Nom | Tol | Nom | Tol | | |
| BCYR 3/4 S | .25 6.4 | .61 15.5 | .02 .4 | .2495 6.337 | ±.0002 ±.005 | .2495 6.337 | ±.0002 ±.005 | .2495 6.337 | ±.0002 ±.005 | See Load-Speed Chart | .06 .03 |
| BCCYR 3/4 S | | | N/A | | | | | | | | |
| BCYR 7/8 S | .25 6.4 | .61 15.5 | .02 .4 | .2495 6.337 | ±.0002 ±.005 | .2495 6.337 | ±.0002 ±.005 | .2495 6.337 | ±.0002 ±.005 | See Load-Speed Chart | .08 .04 |
| BCCYR 7/8 S | | | N/A | | | | | | | | |
| BCYR 1 S | .25 6.4 | .78 19.8 | .03 .8 | .3120 7.925 | ±.0002 ±.005 | .3120 7.925 | ±.0002 ±.005 | .3120 7.925 | ±.0002 ±.005 | See Load-Speed Chart | .15 .07 |
| BCCYR 1 S | | | N/A | | | | | | | | |
| BCYR 1 1/8 S | .25 6.4 | .78 19.8 | .03 .8 | .3120 7.925 | ±.0002 ±.005 | .3120 7.925 | ±.0002 ±.005 | .3120 7.925 | ±.0002 ±.005 | See Load-Speed Chart | .17 .08 |
| BCCYR 1 1/8 S | | | N/A | | | | | | | | |
| BCYR 1 1/4 S | .31 7.9 | .98 25.0 | .03 .8 | .3745 9.512 | ±.0002 ±.005 | .3745 9.512 | ±.0002 ±.005 | .3745 9.512 | ±.0002 ±.005 | See Load-Speed Chart | .24 .11 |
| BCCYR 1 1/4 S | | | N/A | | | | | | | | |
| BCYR 1 3/8 S | .31 7.9 | .98 25.0 | .05 1.2 | .3745 9.512 | ±.0002 ±.005 | .3745 9.512 | ±.0002 ±.005 | .3745 9.512 | ±.0002 ±.005 | See Load-Speed Chart | .30 .14 |
| BCCYR 1 3/8 S | | | N/A | | | | | | | | |
| BCYR 1 1/2 S | .38 9.5 | 1.09 27.8 | .06 1.6 | .4370 11.100 | ±.0002 ±.005 | .4370 11.100 | ±.0002 ±.005 | .4370 11.100 | ±.0002 ±.005 | See Load-Speed Chart | .41 .19 |
| BCCYR 1 1/2 S | | | N/A | | | | | | | | |
| BCYR 1 5/8 S | .38 9.5 | 1.09 27.8 | .06 1.6 | .4370 11.100 | ±.0002 ±.005 | .4370 11.100 | ±.0002 ±.005 | .4370 11.100 | ±.0002 ±.005 | See Load-Speed Chart | .50 .23 |
| BCCYR 1 5/8 S | | | N/A | | | | | | | | |
| BCYR 1 3/4 S | .44 11.1 | 1.25 31.8 | .06 1.6 | .4995 12.687 | ±.0002 ±.005 | .4995 12.687 | ±.0002 ±.005 | .4995 12.687 | ±.0002 ±.005 | See Load-Speed Chart | .64 .29 |
| BCCYR 1 3/4 S | | | N/A | | | | | | | | |

McGILL® Inch Cam Follower Bearings



- Basic Construction Type:** Yoke 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 / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



BCYR

| Part No. | RD | | W | | B | | W1 | R | Track Roller Dynamic Rating | Track Roller Static Rating | | |
|---------------|-----------------|-----------|--------------|-----------|---------------|-----------------|------|-------------|-----------------------------|----------------------------|--------------------|-----------------------|
| | Roller Diameter | | Roller Width | | Bore Diameter | | | | | | Endplate Extension | Crown Prefix BCCYR-XX |
| | inch mm | | inch mm | | inch mm | | | | | | inch mm | Radius |
| | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | | | | | (Ref) | |
| BCYR 1 7/8 S | 1.875 | +0/-0.001 | 1.000 | +0/-0.001 | .500 | +0.0002/-0.0004 | 1.06 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 1 7/8 S | 47.63 | +0/-0.03 | 25.40 | +0/-0.03 | 12.70 | +0.0005/-0.0010 | 27.0 | 20 508 | | | | |
| BCYR 2 S | 2.000 | +0/-0.001 | 1.250 | +0/-0.001 | .625 | +0.0002/-0.0004 | 1.31 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 2 S | 50.80 | +0/-0.03 | 31.75 | +0/-0.03 | 15.88 | +0.0005/-0.0010 | 33.3 | 24 610 | | | | |
| BCYR 2 1/4 S | 2.250 | +0/-0.001 | 1.250 | +0/-0.001 | .625 | +0.0002/-0.0004 | 1.31 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 2 1/4 S | 57.15 | +0/-0.03 | 31.75 | +0/-0.03 | 15.88 | +0.0005/-0.0010 | 33.3 | 24 610 | | | | |
| BCYR 2 1/2 S | 2.500 | +0/-0.001 | 1.500 | +0/-0.001 | .750 | +0.0002/-0.0004 | 1.56 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 2 1/2 S | 63.50 | +0/-0.03 | 38.10 | +0/-0.03 | 19.05 | +0.0005/-0.0010 | 39.7 | 30 762 | | | | |
| BCYR 2 3/4 S | 2.750 | +0/-0.001 | 1.500 | +0/-0.001 | .750 | +0.0002/-0.0004 | 1.56 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 2 3/4 S | 69.85 | +0/-0.03 | 38.10 | +0/-0.03 | 19.05 | +0.0005/-0.0010 | 39.7 | 30 762 | | | | |
| BCYR 3 S | 3.000 | +0/-0.001 | 1.750 | +0/-0.001 | 1.000 | +0.0001/-0.0005 | 1.81 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 3 S | 76.20 | +0/-0.03 | 44.45 | +0/-0.03 | 25.40 | +0.0003/-0.0013 | 46.0 | 30 762 | | | | |
| BCYR 3 1/4 S | 3.250 | +0/-0.001 | 1.750 | +0/-0.001 | 1.000 | +0.0001/-0.0005 | 1.81 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 3 1/4 S | 82.55 | +0/-0.03 | 44.45 | +0/-0.03 | 25.40 | +0.0003/-0.0013 | 46.0 | 30 762 | | | | |
| BCYR 3 1/2 S | 3.500 | +0/-0.001 | 2.000 | +0/-0.001 | 1.125 | +0.0001/-0.0005 | 2.06 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 3 1/2 S | 88.90 | +0/-0.03 | 50.80 | +0/-0.03 | 28.58 | +0.0003/-0.0013 | 52.4 | 30 762 | | | | |
| BCYR 4 S | 4.000 | +0/-0.001 | 2.250 | +0/-0.001 | 1.250 | +0.0001/-0.0005 | 2.06 | Cylindrical | See Load-Speed Chart | | | |
| BCCYR 4 S | 101.60 | +0/-0.03 | 57.15 | +0/-0.03 | 31.75 | +0.0003/-0.0013 | 52.4 | 30 762 | | | | |

Metric dimensions for reference only.

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Inch Cam Follower Bearings **MCGILL**

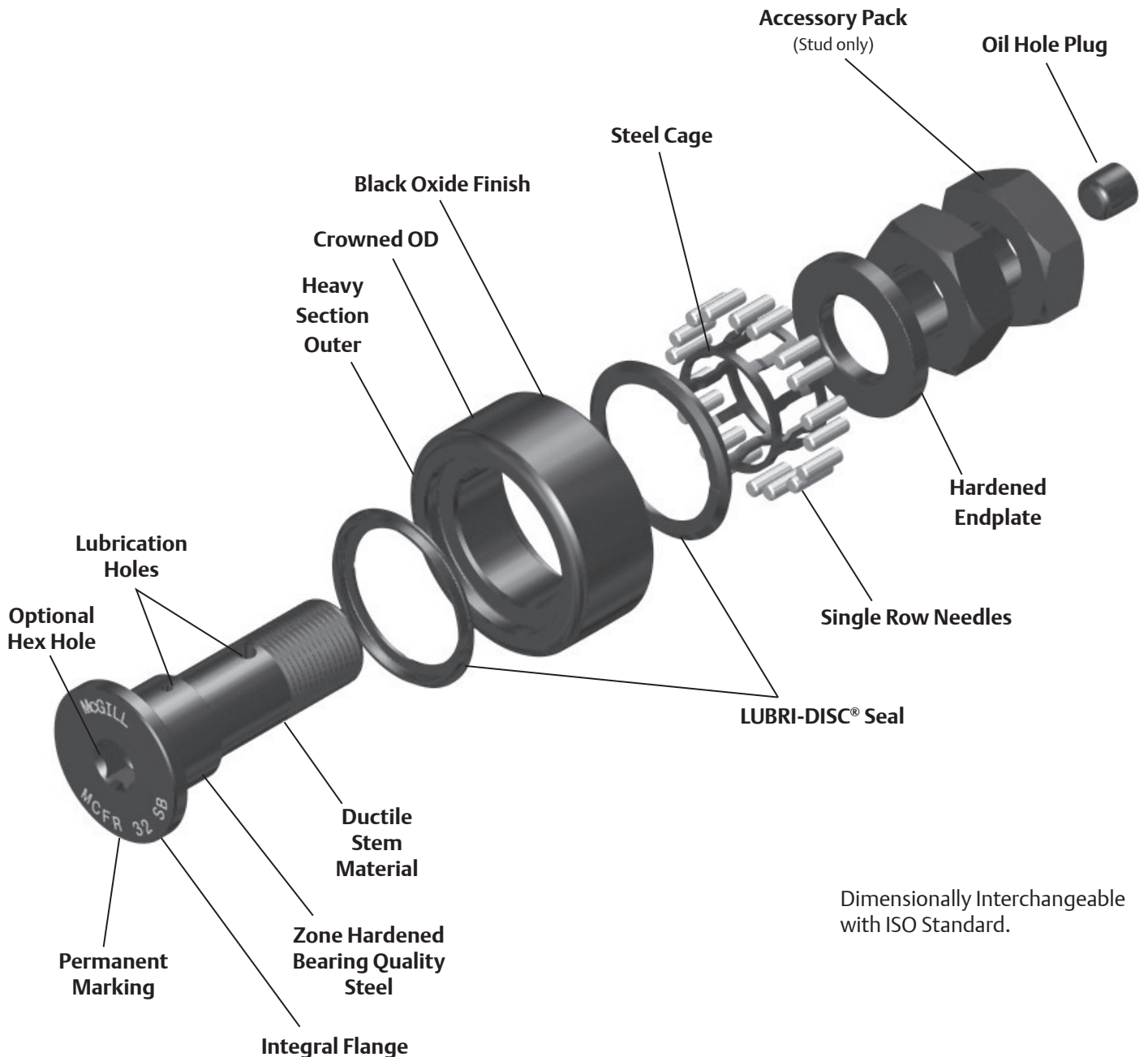


BCYR

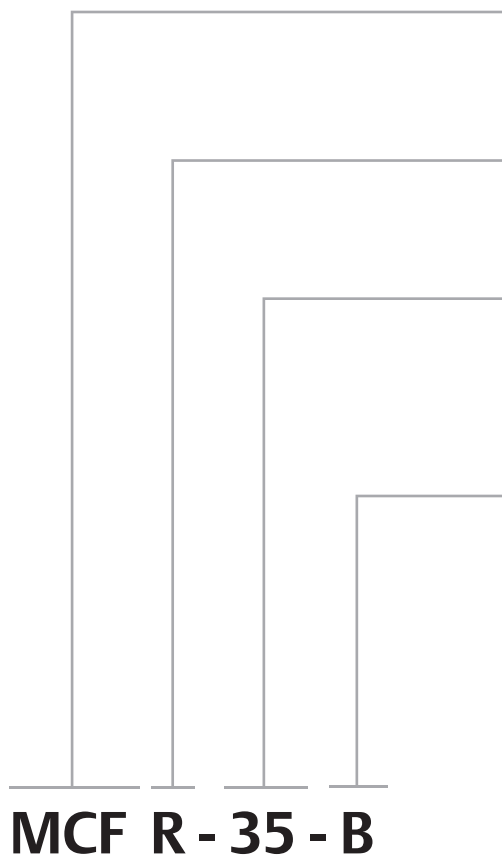
| Part No. | HC | E | Ro | PF | PFT | PF | PFT | PF | PFT | Limiting Speed | WT |
|---------------|-------------|-------------------|--------------|-----------------------------|---------|-----------|---------|-----------|---------|----------------------|-------|
| | Hole Center | Min Boss Diameter | Outer Corner | Recommended Shaft Diameters | | | | | | | RPM |
| | (Ref) | (Ref) | (Ref) | Push Fit | | Drive Fit | | Press Fit | | RPM | lb kg |
| | | | | inch mm | inch mm | inch mm | inch mm | inch mm | inch mm | | |
| | | | | Nom | Tol | Nom | Tol | Nom | Tol | | |
| BCYR 1 7/8 S | .44 | 1.25 | .06 | .4995 | ±.0002 | .4995 | ±.0002 | .4995 | ±.0002 | See Load-Speed Chart | .80 |
| BCCYR 1 7/8 S | 11.1 | 31.8 | N/A | 12.687 | ±.005 | 12.687 | ±.005 | 12.687 | ±.005 | | .36 |
| BCYR 2 S | .50 | 1.41 | .09 | .6245 | ±.0002 | .6245 | ±.0002 | .6245 | ±.0002 | See Load-Speed Chart | 1.05 |
| BCCYR 2 S | 12.7 | 35.7 | N/A | 15.862 | ±.005 | 15.862 | ±.005 | 15.862 | ±.005 | | .48 |
| BCYR 2 1/4 S | .50 | 1.41 | .09 | .6245 | ±.0002 | .6245 | ±.0002 | .6245 | ±.0002 | See Load-Speed Chart | 1.32 |
| BCCYR 2 1/4 S | 12.7 | 35.7 | N/A | 15.862 | ±.005 | 15.862 | ±.005 | 15.862 | ±.005 | | .59 |
| BCYR 2 1/2 S | .56 | 1.69 | .09 | .7495 | ±.0002 | .7495 | ±.0002 | .7495 | ±.0002 | See Load-Speed Chart | 1.80 |
| BCCYR 2 1/2 S | 14.3 | 42.9 | N/A | 19.037 | ±.005 | 19.037 | ±.005 | 19.037 | ±.005 | | .82 |
| BCYR 2 3/4 S | .56 | 1.69 | .09 | .7495 | ±.0002 | .7495 | ±.0002 | .7495 | ±.0002 | See Load-Speed Chart | 2.25 |
| BCCYR 2 3/4 S | 14.3 | 42.9 | N/A | 19.037 | ±.005 | 19.037 | ±.005 | 19.037 | ±.005 | | 1.02 |
| BCYR 3 S | .63 | 2.13 | .13 | .9994 | ±.0002 | .9994 | ±.0002 | .9994 | ±.0002 | See Load-Speed Chart | 3.10 |
| BCCYR 3 S | 15.9 | 54.0 | N/A | 25.385 | ±.005 | 25.385 | ±.005 | 25.385 | ±.005 | | 1.41 |
| BCYR 3 1/4 S | .63 | 2.13 | .13 | .9994 | ±.0002 | .9994 | ±.0002 | .9994 | ±.0002 | See Load-Speed Chart | 3.62 |
| BCCYR 3 1/4 S | 15.9 | 54.0 | N/A | 25.385 | ±.005 | 25.385 | ±.005 | 25.385 | ±.005 | | 1.64 |
| BCYR 3 1/2 S | .69 | 2.44 | .13 | 1.1244 | ±.0002 | 1.1244 | ±.0002 | 1.1244 | ±.0002 | See Load-Speed Chart | 4.95 |
| BCCYR 3 1/2 S | 17.5 | 61.9 | N/A | 28.560 | ±.005 | 28.560 | ±.005 | 28.560 | ±.005 | | 2.25 |
| BCYR 4 S | .75 | 2.80 | .13 | 1.2494 | ±.0002 | 1.2494 | ±.0002 | 1.2494 | ±.0002 | See Load-Speed Chart | 7.05 |
| BCCYR 4 S | 19.1 | 71.0 | N/A | 31.735 | ±.005 | 31.735 | ±.005 | 31.735 | ±.005 | | 3.19 |

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



Basic Type, Construction

- MCF - Metric Cam Follower
- MCYR - Metric Cam Yoke Roller

Construction Suffix

- R - Retained (Caged) Rolling Elements
- E - Eccentric Bushing

Size

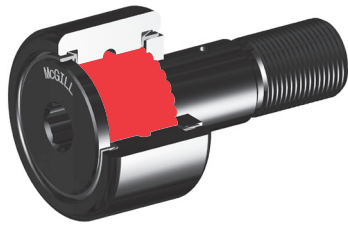
- Metric Stud Type: O.D. In mm
- Metric Yoke Type: Bore In mm
- A - Asian Dimensional Standard

Optional Suffix

- S - LUBRI-DISC[®] Seal
- B - Broach (Hex Hole)
- X - Cylindrical O.D.

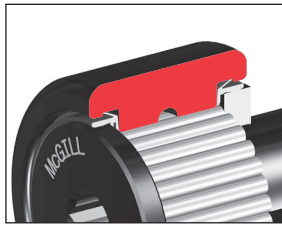


Features and Benefits



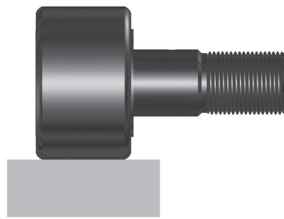
Single Row Full Complement Needle Rollers

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.



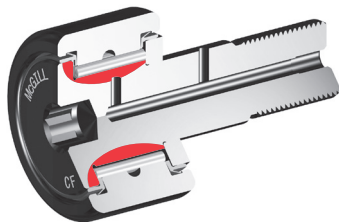
Heavy Section Outer

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



Cylindrical Outside Diameter (OD)

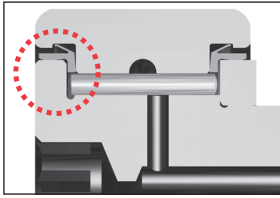
The cylindrical OD can improve performance in certain applications such as improved track capacity by maximizing the contact area with the track.



Zone Hardened Raceways

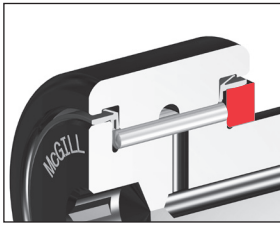
Heat treatment used to precisely harden working surfaces of the raceway and flange. The hardened surfaces provide support for the rolling element contact stresses, while keeping the core of the inner ductile to help absorb shock loads.

Features and Benefits continued



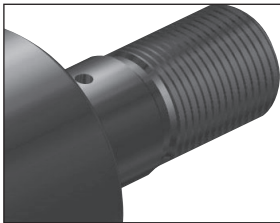
Integral Flange - Stud Type

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.

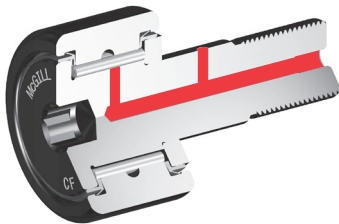


Roll Formed Threads - Stud Type

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



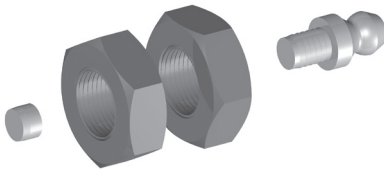
Black Oxide Finish

Bearings have a black oxide finish on all external surfaces.



Permanent Marking

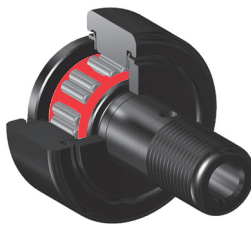
Part number permanently marked on bearing face, helps bearing identification after years of service.



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.

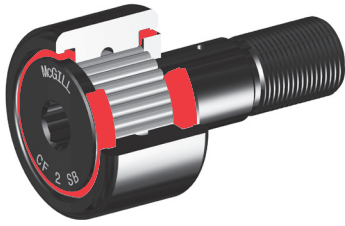
Options



Retainer Type

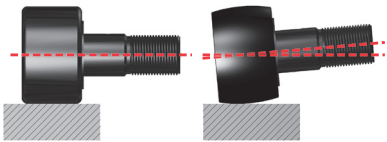
The retainer (cage) option provides heat-treated steel cage for improved durability and wear resistance. The needle separation produces larger lubrication reservoir and helps achieve higher bearing speeds.. The cages are designed with two rollers per pockets (except 13, 16 and 19mm OD's) to help improve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



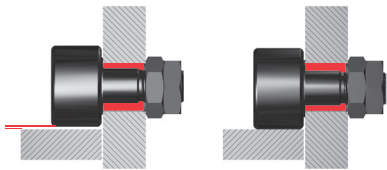
Crowned Outside Diameter (OD)

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)

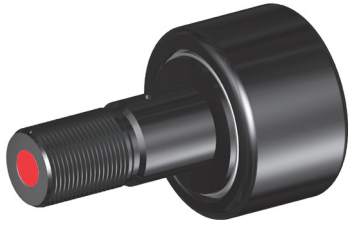
The hex hole can aide in the installation and removal of stud type cam followers by a more positive hold on the cam follower stud versus a standard screw driver slot. The hex feature is identified with a "B" since it is produced using a broach process. Bearing relubrication from flange end must be considered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



Eccentric Stud

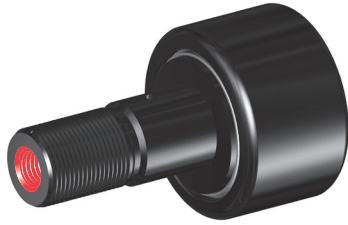
Eccentric stud option provides a means of adjusting the radial position of the bearing, which can improve the load sharing of inline bearing combinations. Cam follower load sharing helps reduce operation costs by reducing premature failures due to overloaded bearings, the need of precise mounting hole 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.



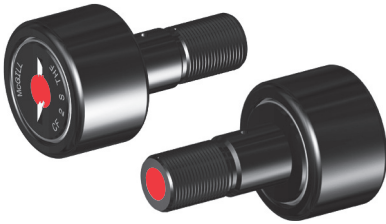
THT

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.

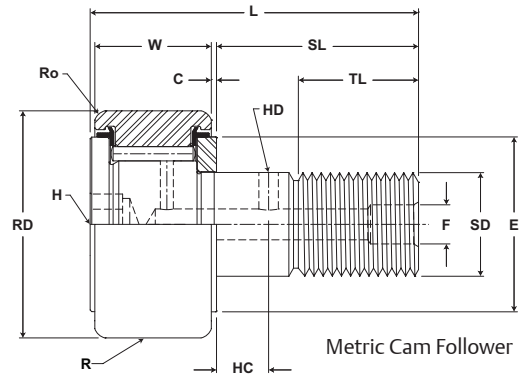
Custom Capabilities

- *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

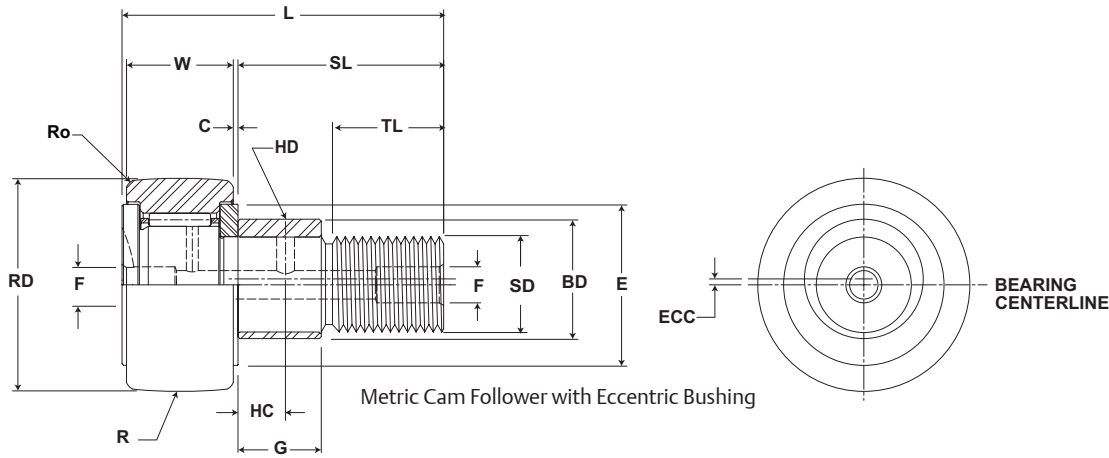


MCF, MCFE

| 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 | Eccentric | | | | | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | mm inch | Base Modifier MCFE-xx | | | | | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | (Ref) | +05/-15 +0.02/-0.006 | (Ref) | N/lb | N/lb | | |
| 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 |
| MCF 16 B | MCF 16 SB | | | | | | | | | | | | | | | | | | |
| MCF 16 X | MCF 16 SX | | | | | | | | | | | | | | | | | | |
| MCF 16 BX | MCF 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 |
| MCFRE 16 B | MCFRE 16 SB | | | | | | | | | | | | | | | | | | |
| MCFRE 16 X | MCFRE 16 SX | | | | | | | | | | | | | | | | | | |
| MCFRE 16 BX | MCFRE 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 |
| MCFE 19 B | MCFE 19 SB | | | | | | | | | | | | | | | | | | |
| MCFE 19 X | MCFE 19 SX | | | | | | | | | | | | | | | | | | |
| MCFE 19 BX | MCFE 19 SBX | | | | | | | | | | | | | | | | | | |
| MCFR 19 | MCFR 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 | 3,730 839 | 4,140 931 | |
| 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 |
| MCFRE 19 B | MCFRE 19 SB | | | | | | | | | | | | | | | | | | |
| MCFRE 19 X | MCFRE 19 SX | | | | | | | | | | | | | | | | | | |
| 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.



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. | | kg lb | | |
| 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 | .1969 | +0.0005/-0 | | | | |
| MCFR 13 X | MCFR 13 SX | - | - | 3.1 .12 | N/A | .01 | .4 | | | | | | |
| 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 | .2362 | +0.0005/-0 | | | | |
| MCF 16 X | MCF 16 SX | - | - | 4 .16 | N/A | .01 | .4 | | | | | | |
| 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 | .4350 | +0.0009/-0 | | | | |
| | MCFE 16 SX | - | - | 4 .16 | N/A | .01 | .4 | | | | | | |
| | 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 | .2362 | +0.0005/-0 | | | | |
| MCFR 16 X | MCFR 16 SX | - | - | 4 .16 | N/A | .01 | .4 | | | | | | |
| 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 | .4350 | +0.0005/-0 | | | | |
| | MCFRE 16 SX | - | - | 4 .16 | N/A | .01 | .4 | | | | | | |
| | 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 | .3150 | +0.0006/-0 | | | | |
| MCF 19 X | MCF 19 SX | - | - | 4 .16 | N/A | .01 | .5 | | | | | | |
| 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 | .5138 | +0.0009/-0 | | | | |
| | MCFE 19 SX | - | - | 4 .16 | N/A | .01 | .5 | | | | | | |
| | 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 | .3150 | +0.0006/-0 | | | | |
| MCFR 19 X | MCFR 19 SX | - | - | 4 .16 | N/A | .01 | .5 | | | | | | |
| 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 | .5138 | +0.0006/-0 | | | | |
| | MCFRE 19 SX | - | - | 4 .16 | N/A | .01 | .5 | | | | | | |
| | MCFRE 19 SBX | - | - | - | 4 .16 | | | | | | | | |

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

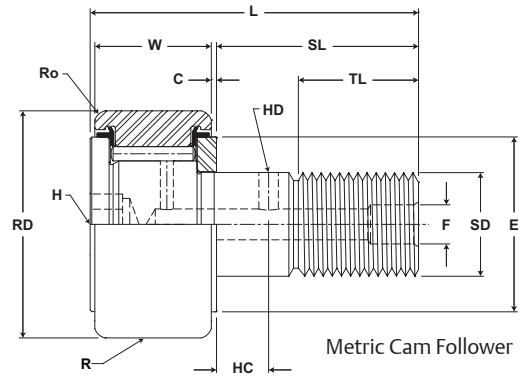
5. Since load, lubrication method, temperature and other factors affect the maximum operating speed, it is impossible to determine precise limiting speed. The listed limiting speeds are based on lightly loaded bearings having adequate lubrication and are listed only as a design guide. More frequent relubrication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

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

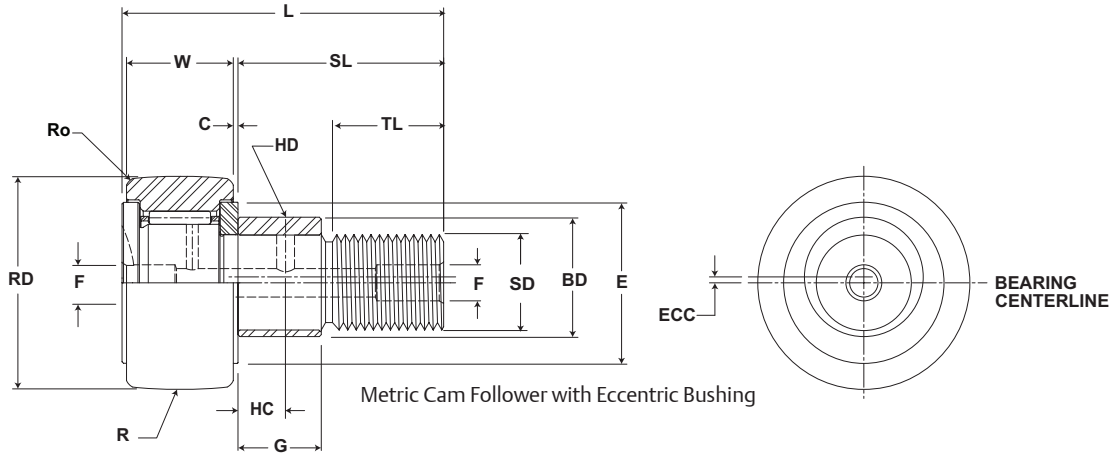


MCF, MCFE

| 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 | | | | | | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | Suffix MCF-xx-X | Base Modifier MCFE-xx | | | | | | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | mm inch | Radius | (Ref) | +05/- .15 +.002/- .006 | | | (Ref) | | |
| MCF 22 | MCF 22 S | 22.000 .8661 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 12.0 | .47 | 36 | 1.4 | 500 | N/A | N/A | N/A | 7,850 | 10,400 | | |
| MCF 22 B | MCF 22 SB | | 19.7 | | | | | | | | | | | | | | | | | |
| MCF 22 X | MCF 22 SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCF 22 BX | MCF 22 SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFE 22 | MCFE 22 S | 22.000 .8661 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 12.0 | .47 | 36 | 1.4 | 500 | 0.5 | 10 | 13 | 5,200 | 6,050 | | |
| MCFE 22 SB | MCFE 22 SB | | 19.7 | | | | | | | | | | .02 | | | | | | 0.39 | .51 |
| MCFE 22 SX | MCFE 22 SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFE 22 SBX | MCFE 22 SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFR 22 | MCFR 22 S | 22.000 .8661 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 12.0 | .47 | 36 | 1.4 | | 500 | N/A | N/A | N/A | 5,200 | | |
| MCFR 22 B | MCFR 22 SB | | 19.7 | | | | | | | | | | | | | | | | | |
| MCFR 22 X | MCFR 22 SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFR 22 BX | MCFR 22 SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFRE 22 | MCFRE 22 S | 22.000 .8661 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 12.0 | .47 | 36 | 1.4 | 500 | 0.5 | 10 | 13 | 5,200 | 1,360 | | |
| MCFRE 22 SB | MCFRE 22 SB | | 19.7 | | | | | | | | | | .02 | | | | | | 0.39 | .51 |
| MCFRE 22 SX | MCFRE 22 SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFRE 22 SBX | MCFRE 22 SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCF 22A | MCF 22A S | 22.000 .8661 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 13.0 | .51 | 36 | 1.4 | | 500 | N/A | N/A | N/A | 7,850 | | |
| MCF 22A B | MCF 22A SB | | 19.7 | | | | | | | | | | | | | | | | | |
| MCF 22A X | MCF 22A SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCF 22A BX | MCF 22A SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFE 22A | MCFE 22A S | 22.000 .8661 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 13.0 | .51 | 36 | 1.4 | 500 | 0.5 | 10 | 13 | 7,850 | 2,338 | | |
| MCFE 22A SB | MCFE 22A SB | | 19.7 | | | | | | | | | | .02 | | | | | | 0.39 | .51 |
| MCFE 22A SX | MCFE 22A SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFE 22A SBX | MCFE 22A SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFR 22A | MCFR 22A S | 22.000 .8661 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 13.0 | .51 | 36 | 1.4 | | 500 | N/A | N/A | N/A | 5,200 | | |
| MCFR 22A B | MCFR 22A SB | | 19.7 | | | | | | | | | | | | | | | | | |
| MCFR 22A X | MCFR 22A SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFR 22A BX | MCFR 22A SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFRE 22A | MCFRE 22A S | 22.000 .8661 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 13.0 | .51 | 36 | 1.4 | 500 | 0.5 | 10 | 13 | 5,200 | 1,360 | | |
| MCFRE 22A SB | MCFRE 22A SB | | 19.7 | | | | | | | | | | .02 | | | | | | 0.39 | .51 |
| MCFRE 22A SX | MCFRE 22A SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFRE 22A SBX | MCFRE 22A SBX | | Cylindrical | | | | | | | | | | | | | | | | | |

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.



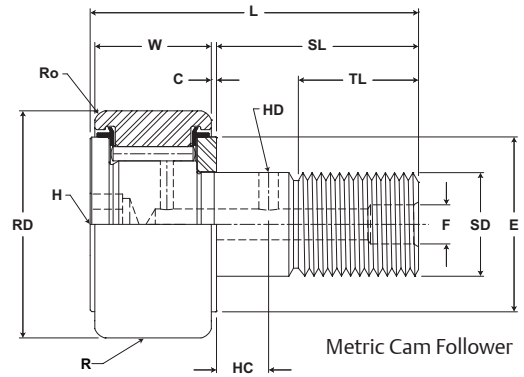
MCF, MCFE

| 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. | | | | |
| MCF 22 | MCF 22 S | - | - | .4 .16 | N/A | .5 | 15 | 10.000 | +.015/-0 | M10x1 | 15 133 | 9,000 | .04 .09 |
| MCF 22 B | MCF 22 SB | - | - | - | .4 .16 | .02 | .6 | .3937 | +0.0006/-0 | | | | |
| 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 | 15 | 13.050 | +0.025/-0 | M10x1 | 15 133 | 9,000 | .04 .09 |
| | MCFE 22 SB | - | - | - | .4 .16 | .02 | .6 | .5138 | +0.0009/-0 | | | | |
| | MCFE 22 SX | - | - | .4 .16 | N/A | | | | | | | | |
| | MCFE 22 SBX | - | - | - | .4 .16 | | | | | | | | |
| MCFR 22 | MCFR 22 S | - | - | .4 .16 | N/A | .5 | 15 | 10.000 | +.015/-0 | M10x1 | 15 133 | 13,500 | .04 .09 |
| MCFR 22 B | MCFR 22 SB | - | - | - | .4 .16 | .02 | .6 | .3937 | +0.0006/-0 | | | | |
| 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 | 15 | 13.050 | +0.025/-0 | M10x1 | 15 133 | 13,500 | .04 .09 |
| | MCFRE 22 SB | - | - | - | .4 .16 | .02 | .6 | .5138 | +0.0009/-0 | | | | |
| | MCFRE 22 SX | - | - | .4 .16 | N/A | | | | | | | | |
| | MCFRE 22 SBX | - | - | - | .4 .16 | | | | | | | | |
| MCF 22A | MCF 22A S | - | - | .4 .16 | N/A | .5 | 15 | 10.000 | +.015/-0 | M10x1.25 | 15 133 | 9,000 | .04 .09 |
| MCF 22A B | MCF 22A SB | - | - | - | .5 .2 | .02 | .6 | .3937 | +0.0006/-0 | | | | |
| 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 | 15 | 13.050 | +0.025/-0 | M10x1.25 | 15 133 | 9,000 | .04 .09 |
| | MCFE 22A SB | - | - | - | .5 .2 | .02 | .6 | .5138 | +0.0009/-0 | | | | |
| | MCFE 22A SX | - | - | .4 .16 | N/A | | | | | | | | |
| | MCFE 22A SBX | - | - | - | .5 .2 | | | | | | | | |
| MCFR 22A | MCFR 22A S | - | - | .4 .16 | N/A | .5 | 15 | 10.000 | +.015/-0 | M10x1.25 | 15 133 | 13,500 | .04 .09 |
| MCFR 22A B | MCFR 22A SB | - | - | - | .5 .2 | .02 | .6 | .3937 | +0.0006/-0 | | | | |
| 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 | 15 | 13.050 | +0.025/-0 | M10x1.25 | 15 133 | 13,500 | .04 .09 |
| | MCFRE 22A SB | - | - | - | .5 .2 | .02 | .6 | .5138 | +0.0009/-0 | | | | |
| | 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

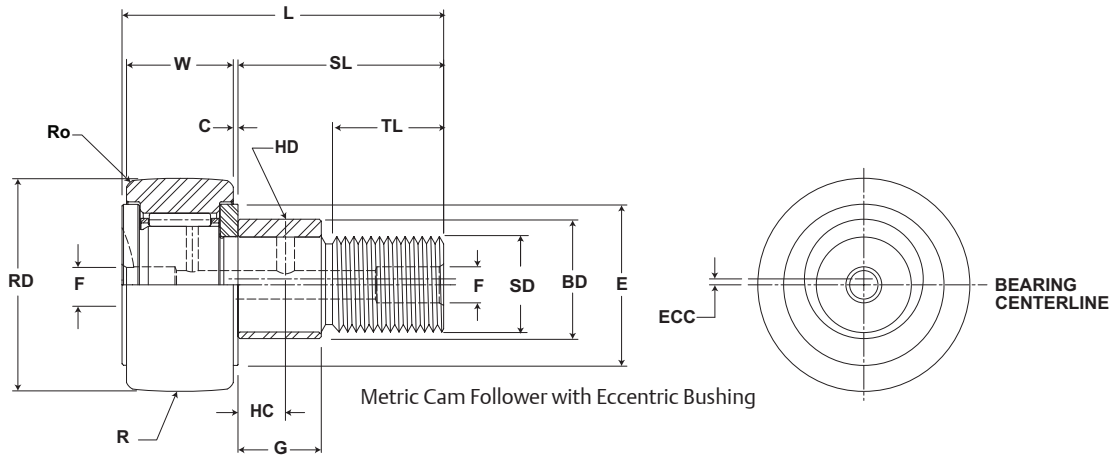


MCF, MCCE

| 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 | | | | | | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | Suffix MCF-xx-X | Base Modifier MCFE-xx | | | | | | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | (Ref) | +05/- .15 + .002/- .006 | (Ref) | N/lb | N/lb | | | |
| MCF 26 | MCF 26 S | 26.000 1.0236 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 12.0 | .47 | 36 | 1.4 | 500 | N/A | N/A | N/A | 7,850 | 10,400 | | |
| MCF 26 B | MCF 26 SB | | 19.7 | | | | | | | | | | | | | | | | | |
| MCF 26 X | MCF 26 SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCF 26 BX | MCF 26 SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCCE 26 | MCCE 26 S | 26.000 1.0236 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 12.0 | .47 | 36 | 1.4 | 500 | 0.5 | 10 | 13 | 5,200 | 6,050 | | |
| | MCCE 26 SB | | 19.7 | | | | | | | | | | .02 | | | | | | .39 | .51 |
| | MCCE 26 SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| | MCCE 26 SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFR 26 | MCFR 26 S | 26.000 1.0236 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 12.0 | .47 | 36 | 1.4 | 500 | N/A | N/A | N/A | 5,200 | 6,050 | | |
| MCFR 26 B | MCFR 26 SB | | 19.7 | | | | | | | | | | | | | | | | | |
| MCFR 26 X | MCFR 26 SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFR 26 BX | MCFR 26 SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFRE 26 | MCFRE 26 S | 26.000 1.0236 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 12.0 | .47 | 36 | 1.4 | 500 | 0.5 | 10 | 13 | 5,200 | 1,360 | | |
| | MCFRE 26 SB | | 19.7 | | | | | | | | | | .02 | | | | | | .39 | .51 |
| | MCFRE 26 SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| | MCFRE 26 SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCF 26A | MCF 26A S | 26.000 1.0236 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 13.0 | .51 | 36 | 1.4 | 500 | N/A | N/A | N/A | 7,850 | 10,400 | | |
| MCF 26A B | MCF 26A SB | | 19.7 | | | | | | | | | | | | | | | | | |
| MCF 26A X | MCF 26A SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCF 26A BX | MCF 26A SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCCE 26A | MCCE 26A S | 26.000 1.0236 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 13.0 | .51 | 36 | 1.4 | 500 | 0.5 | 10 | 13 | 7,850 | 2,338 | | |
| | MCCE 26A SB | | 19.7 | | | | | | | | | | .02 | | | | | | .39 | .51 |
| | MCCE 26A SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| | MCCE 26A SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFR 26A | MCFR 26A S | 26.000 1.0236 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 13.0 | .51 | 36 | 1.4 | 500 | N/A | N/A | N/A | 5,200 | 6,050 | | |
| MCFR 26A B | MCFR 26A SB | | 19.7 | | | | | | | | | | | | | | | | | |
| MCFR 26A X | MCFR 26A SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFR 26A BX | MCFR 26A SBX | | Cylindrical | | | | | | | | | | | | | | | | | |
| MCFRE 26A | MCFRE 26A S | 26.000 1.0236 | +0/- .050 +0/- .002 | 12.000 +0/- .12 .4724 +0/- .005 | 10.000 +0/- .015 .3937 +0/- .0006 | 23 | .60 | .024 | 13.0 | .51 | 36 | 1.4 | 500 | 0.5 | 10 | 13 | 5,200 | 1,360 | | |
| | MCFRE 26A SB | | 19.7 | | | | | | | | | | .02 | | | | | | .39 | .51 |
| | MCFRE 26A SX | | Cylindrical | | | | | | | | | | | | | | | | | |
| | MCFRE 26A SBX | | Cylindrical | | | | | | | | | | | | | | | | | |

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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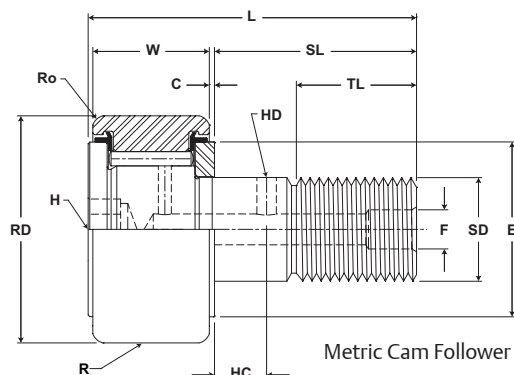
MCF, MCFE

| 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 | | | | | | |
| | | mm inch | mm inch | mm inch | mm inch | mm inch | Nom. | Tol. | Nm in-lb | | | | |
| (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | | | | | | |
| MCF 26 | MCF 26 S | - | - | .4 .16 | N/A | .5 | 15 | 10.000 | +.015/-0 | M10x1 | 15 133 | 9,000 | .05 .11 |
| MCF 26 B | MCF 26 SB | - | - | .4 .16 | N/A | .02 | .6 | .3937 | +.0006/-0 | | | | |
| MCF 26 X | MCF 26 SX | - | - | .4 .16 | N/A | | | | | | | | |
| MCF 26 BX | MCF 26 SBX | - | - | .4 .16 | N/A | | | | | | | | |
| MCFE 26 | MCFE 26 S | - | - | .4 .16 | N/A | .5 | 15 | 13.050 | +0.025/-0 | M10x1 | 15 133 | 9,000 | .05 .11 |
| | MCFE 26 SB | - | - | .4 .16 | N/A | .02 | .6 | .5138 | +0.0009/-0 | | | | |
| | MCFE 26 SX | - | - | .4 .16 | N/A | | | | | | | | |
| | MCFE 26 SBX | - | - | .4 .16 | N/A | | | | | | | | |
| MCFR 26 | MCFR 26 S | - | - | .4 .16 | N/A | .5 | 15 | 10.000 | +.015/-0 | M10x1 | 15 133 | 13,500 | .05 .11 |
| MCFR 26 B | MCFR 26 SB | - | - | .4 .16 | N/A | .02 | .6 | .3937 | +.0006/-0 | | | | |
| MCFR 26 X | MCFR 26 SX | - | - | .4 .16 | N/A | | | | | | | | |
| MCFR 26 BX | MCFR 26 SBX | - | - | .4 .16 | N/A | | | | | | | | |
| MCFRE 26 | MCFRE 26 S | - | - | .4 .16 | N/A | .5 | 15 | 13.050 | +0.025/-0 | M10x1 | 15 133 | 13,500 | .05 .11 |
| | MCFRE 26 SB | - | - | .4 .16 | N/A | .02 | .6 | .5138 | +0.0009/-0 | | | | |
| | MCFRE 26 SX | - | - | .4 .16 | N/A | | | | | | | | |
| | MCFRE 26 SBX | - | - | .4 .16 | N/A | | | | | | | | |
| MCF 26A | MCF 26A S | - | - | .4 .16 | N/A | .5 | 19 | 10.000 | +.015/-0 | M10x1.25 | 22 195 | 9,000 | .05 .11 |
| MCF 26A B | MCF 26A SB | - | - | .4 .16 | N/A | .02 | .7 | .3937 | +.0006/-0 | | | | |
| MCF 26A X | MCF 26A SX | - | - | .4 .16 | N/A | | | | | | | | |
| MCF 26A BX | MCF 26A SBX | - | - | .4 .16 | N/A | | | | | | | | |
| MCFE 26A | MCFE 26A S | - | - | .4 .16 | N/A | .5 | 19 | 13.050 | +0.025/-0 | M10x1.25 | 22 195 | 9,000 | .05 .11 |
| | MCFE 26A SB | - | - | .4 .16 | N/A | .02 | .7 | .5138 | +0.0009/-0 | | | | |
| | MCFE 26A SX | - | - | .4 .16 | N/A | | | | | | | | |
| | MCFE 26A SBX | - | - | .4 .16 | N/A | | | | | | | | |
| MCFR 26A | MCFR 26A S | - | - | .4 .16 | N/A | .5 | 19 | 10.000 | +.015/-0 | M10x1.25 | 22 195 | 13,500 | .05 .11 |
| MCFR 26A B | MCFR 26A SB | - | - | .4 .16 | N/A | .02 | .7 | .3937 | +.0006/-0 | | | | |
| MCFR 26A X | MCFR 26A SX | - | - | .4 .16 | N/A | | | | | | | | |
| MCFR 26A BX | MCFR 26A SBX | - | - | .4 .16 | N/A | | | | | | | | |
| MCFRE 26A | MCFRE 26A S | - | - | .4 .16 | N/A | .5 | 19 | 13.050 | +0.025/-0 | M10x1.25 | 22 195 | 13,500 | .05 .11 |
| | MCFRE 26A SB | - | - | .4 .16 | N/A | .02 | .7 | .5138 | +0.0009/-0 | | | | |
| | MCFRE 26A SX | - | - | .4 .16 | N/A | | | | | | | | |
| | MCFRE 26A SBX | - | - | .4 .16 | N/A | | | | | | | | |

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

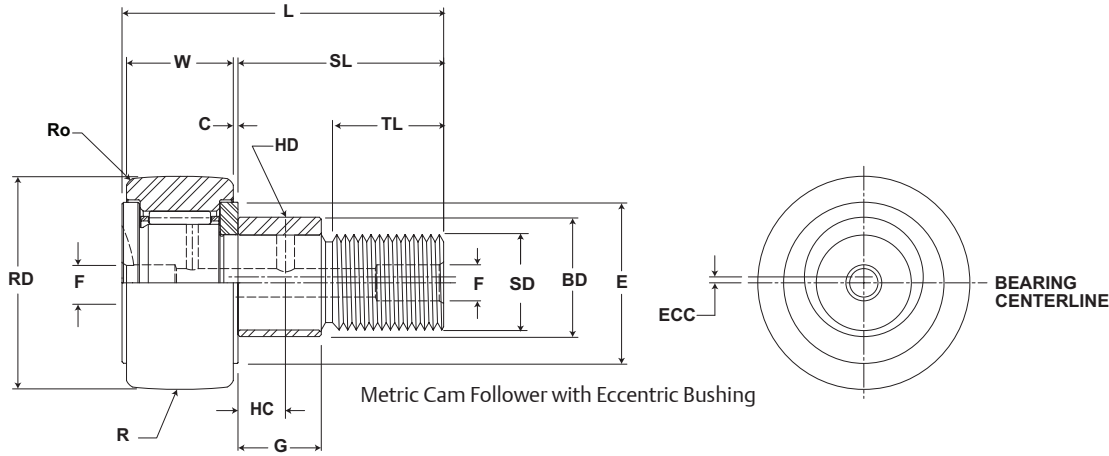


MCF, MCFE

| 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 | | | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | mm inch | Base Modifier MCFE-xx | | | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | (Ref) | +05/- .15 +0.02/- .006 | (Ref) | | |
| MCF 30 | MCF 30 S | 30.000 1.1811 | +0/- .050 +0/- .002 | 14.000 +0/- .12 .5512 +0/- .005 | 12.000 +0/- .018 .4724 +0/- .0007 | 25 .9 | .60 .024 | 14.0 .55 | 40 1.6 | 500 19.7 | Cylindrical | N/A | N/A | N/A | 11,080 2,491 | 15,300 3,440 | |
| MCF 30 B | MCF 30 SB | | | | | | | | | | | | | | | | |
| 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 +0/- .12 .5512 +0/- .005 | 12.000 +0/- .018 .4724 +0/- .0007 | 25 .9 | .60 .024 | 14.0 .55 | 40 1.6 | 500 19.7 | Cylindrical | 0.5 .02 | 11 0.43 | 15 .59 | 6,860 1,542 | 8,050 1,810 | |
| MCFE 30 B | MCFE 30 SB | | | | | | | | | | | | | | | | |
| MCFE 30 X | MCFE 30 SX | | | | | | | | | | | | | | | | |
| MCFE 30 BX | MCFE 30 SBX | | | | | | | | | | | | | | | | |
| MCFRE 30 | MCFRE 30 S | 30.000 1.1811 | +0/- .050 +0/- .002 | 14.000 +0/- .12 .5512 +0/- .005 | 12.000 +0/- .018 .4724 +0/- .0007 | 25 .9 | .60 .024 | 14.0 .55 | 40 1.6 | 500 19.7 | Cylindrical | 0.5 .02 | 11 0.43 | 15 .59 | 6,860 1,542 | 8,050 1,810 | |
| MCFRE 30 B | MCFRE 30 SB | | | | | | | | | | | | | | | | |
| MCFRE 30 X | MCFRE 30 SX | | | | | | | | | | | | | | | | |
| MCFRE 30 BX | MCFRE 30 SBX | | | | | | | | | | | | | | | | |
| MCF 32 | MCF 32 S | 32.000 1.2598 | +0/- .050 +0/- .002 | 14.000 +0/- .12 .5512 +0/- .005 | 12.000 +0/- .018 .4724 +0/- .0007 | 25 .9 | .60 .024 | 14.0 .55 | 40 1.6 | 500 19.7 | Cylindrical | N/A | N/A | N/A | 11,080 2,491 | 15,300 3,440 | |
| MCF 32 B | MCF 32 SB | | | | | | | | | | | | | | | | |
| 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 +0/- .12 .5512 +0/- .005 | 12.000 +0/- .018 .4724 +0/- .0007 | 25 .9 | .60 .024 | 14.0 .55 | 40 1.6 | 500 19.7 | Cylindrical | 0.5 .02 | 11 0.43 | 15 .59 | 6,860 1,542 | 8,050 1,810 | |
| MCFE 32 B | MCFE 32 SB | | | | | | | | | | | | | | | | |
| MCFE 32 X | MCFE 32 SX | | | | | | | | | | | | | | | | |
| MCFE 32 BX | MCFE 32 SBX | | | | | | | | | | | | | | | | |
| MCFRE 32 | MCFRE 32 S | 32.000 1.2598 | +0/- .050 +0/- .002 | 14.000 +0/- .12 .5512 +0/- .005 | 12.000 +0/- .018 .4724 +0/- .0007 | 25 .9 | .60 .024 | 14.0 .55 | 40 1.6 | 500 19.7 | Cylindrical | 0.5 .02 | 11 0.43 | 15 .59 | 6,860 1,542 | 8,050 1,810 | |
| MCFRE 32 B | MCFRE 32 SB | | | | | | | | | | | | | | | | |
| MCFRE 32 X | MCFRE 32 SX | | | | | | | | | | | | | | | | |
| MCFRE 32 BX | 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.



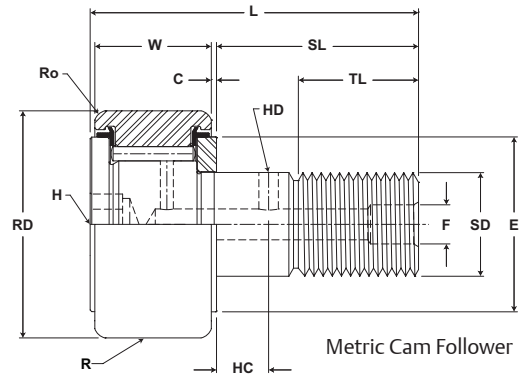
MCF, MCFE

| 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 | | | | | | |
| | | mm inch | mm inch | mm inch | mm inch | mm inch | mm inch | Nom. | Tol. | | kg lb | | |
| MCF 30 | MCF 30 S | 6 .236 | 3 .118 | 6 .24 | N/A | 1.0 .04 | 19 .7 | 12.000 .4724 | +0.018/-0 +0.0007/-0 | M12x1.5 | 22 195 | 6,400 | .09 .20 |
| 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 | .09 .20 |
| | 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 | +0.018/-0 +0.0007/-0 | M12x1.5 | 22 195 | 9,600 | .09 .20 |
| 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 | .09 .20 |
| | 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 | +0.018/-0 +0.0007/-0 | M12x1.5 | 57 504 | 6,400 | .10 .22 |
| 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 | .10 .22 |
| | 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 | +0.018/-0 +0.0007/-0 | M12x1.5 | 57 504 | 9,600 | .10 .22 |
| 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 | .10 .22 |
| | 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

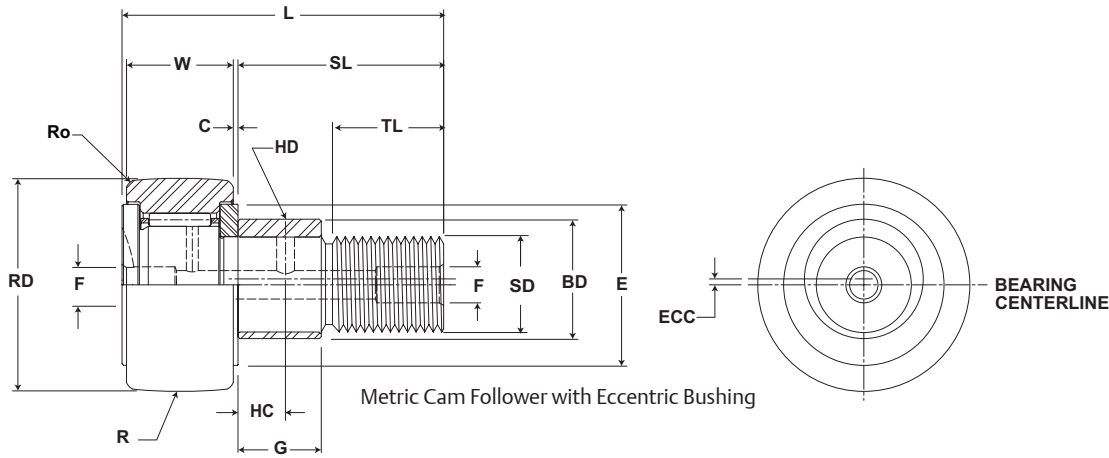


MCF, MCFE

| 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 | | | | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | mm inch | Base Modifier MCFE-xx | | | | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | (Ref) | +05/- .15 + .002/- .006 | (Ref) | (Ref) | N/lb | N/lb |
| MCF 35 | MCF 35 S | 35.000 1.3780 | +0/- .050 +0/- .002 | 18.000 +0/- .12 .7087 +0/- .005 | 16.000 +0/- .018 .6299 +0/- .0007 | 33 | .80 | .031 | 18.0 | .71 | 52 | 2.0 | 500 | N/A | N/A | N/A | 16,970 | 28,500 |
| MCF 35 B | MCF 35 SB | | 19.7 | | | | | | | | | | Cylindrical | | | | | |
| MCF 35 X | MCF 35 SX | | 19.7 | | | | | | | | | | | | | | | |
| MCF 35 BX | MCF 35 SBX | 19.7 | | | | | | | | | | | | | | | | |
| MCFE 35 | MCFE 35 S | 35.000 1.3780 | +0/- .050 +0/- .002 | 18.000 +0/- .12 .7087 +0/- .005 | 16.000 +0/- .018 .6299 +0/- .0007 | 33 | .80 | .031 | 18.0 | .71 | 52 | 2.0 | 500 | 0.5 | 14 | 20 | 16,970 | 28,500 |
| MCFE 35 SB | MCFE 35 SB | | 19.7 | | | | | | | | | | Cylindrical | | | | | |
| MCFE 35 SX | MCFE 35 SX | | 19.7 | | | | | | | | | | | | | | | |
| MCFE 35 SBX | MCFE 35 SBX | 19.7 | | | | | | | | | | | | | | | | |
| MCFR 35 | MCFR 35 S | 35.000 1.3780 | +0/- .050 +0/- .002 | 18.000 +0/- .12 .7087 +0/- .005 | 16.000 +0/- .018 .6299 +0/- .0007 | 33 | .80 | .031 | 18.0 | .71 | 52 | 2.0 | 500 | N/A | N/A | N/A | 10,890 | 15,900 |
| MCFR 35 B | MCFR 35 SB | | 19.7 | | | | | | | | | | Cylindrical | | | | | |
| MCFR 35 X | MCFR 35 SX | | 19.7 | | | | | | | | | | | | | | | |
| MCFR 35 BX | MCFR 35 SBX | 19.7 | | | | | | | | | | | | | | | | |
| MCFRE 35 | MCFRE 35 S | 35.000 1.3780 | +0/- .050 +0/- .002 | 18.000 +0/- .12 .7087 +0/- .005 | 16.000 +0/- .018 .6299 +0/- .0007 | 33 | .80 | .031 | 18.0 | .71 | 52 | 2.0 | 500 | 0.5 | 14 | 20 | 10,890 | 15,900 |
| MCFRE 35 SB | MCFRE 35 SB | | 19.7 | | | | | | | | | | Cylindrical | | | | | |
| MCFRE 35 SX | MCFRE 35 SX | | 19.7 | | | | | | | | | | | | | | | |
| MCFRE 35 SBX | MCFRE 35 SBX | 19.7 | | | | | | | | | | | | | | | | |
| MCF 40 | MCF 40 S | 40.000 1.5748 | +0/- .050 +0/- .002 | 20.000 +0/- .12 .7874 +0/- .005 | 18.000 +0/- .018 .7087 +0/- .0007 | 37 | .80 | .031 | 19.0 | .75 | 58 | 2.3 | 500 | N/A | N/A | N/A | 19,420 | 32,200 |
| MCF 40 B | MCF 40 SB | | 19.7 | | | | | | | | | | Cylindrical | | | | | |
| MCF 40 X | MCF 40 SX | | 19.7 | | | | | | | | | | | | | | | |
| MCF 40 BX | MCF 40 SBX | 19.7 | | | | | | | | | | | | | | | | |
| MCFE 40 | MCFE 40 S | 40.000 1.5748 | +0/- .050 +0/- .002 | 20.000 +0/- .12 .7874 +0/- .005 | 18.000 +0/- .018 .7087 +0/- .0007 | 37 | .80 | .031 | 19.0 | .75 | 58 | 2.3 | 500 | 1 | 16 | 22 | 19,420 | 32,200 |
| MCFE 40 SB | MCFE 40 SB | | 19.7 | | | | | | | | | | Cylindrical | | | | | |
| MCFE 40 SX | MCFE 40 SX | | 19.7 | | | | | | | | | | | | | | | |
| MCFE 40 SBX | MCFE 40 SBX | 19.7 | | | | | | | | | | | | | | | | |
| MCFR 40 | MCFR 40 S | 40.000 1.5748 | +0/- .050 +0/- .002 | 20.000 +0/- .12 .7874 +0/- .005 | 18.000 +0/- .018 .7087 +0/- .0007 | 37 | .80 | .031 | 19.0 | .75 | 58 | 2.3 | 500 | N/A | N/A | N/A | 13,340 | 19,800 |
| MCFR 40 B | MCFR 40 SB | | 19.7 | | | | | | | | | | Cylindrical | | | | | |
| MCFR 40 X | MCFR 40 SX | | 19.7 | | | | | | | | | | | | | | | |
| MCFR 40 BX | MCFR 40 SBX | 19.7 | | | | | | | | | | | | | | | | |
| MCFRE 40 | MCFRE 40 S | 40.000 1.5748 | +0/- .050 +0/- .002 | 20.000 +0/- .12 .7874 +0/- .005 | 18.000 +0/- .018 .7087 +0/- .0007 | 37 | .80 | .031 | 19.0 | .75 | 58 | 2.3 | 500 | 1 | 16 | 22 | 13,340 | 19,800 |
| MCFRE 40 SB | MCFRE 40 SB | | 19.7 | | | | | | | | | | Cylindrical | | | | | |
| MCFRE 40 SX | MCFRE 40 SX | | 19.7 | | | | | | | | | | | | | | | |
| MCFRE 40 SBX | MCFRE 40 SBX | 19.7 | | | | | | | | | | | | | | | | |

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.



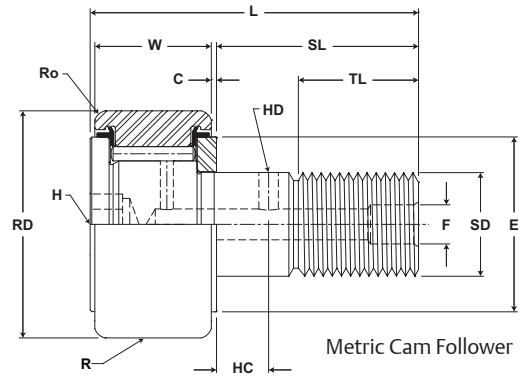
MCF, MCFE

| 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. | | | | |
| MCF 35 | MCF 35 S | .315 | .118 | 6/24 | N/A | 1.0 | 24 | 16.000 | +.018/-0 +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 | 24 | 20.050 | +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 | .315 | .118 | 6/24 | N/A | 1.0 | 24 | 16.000 | +.018/-0 +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 | 24 | 20.050 | +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 | .315 | .118 | 6/24 | N/A | 1.5 | 27 | 18.000 | +.018/-0 +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 | 27 | 22.050 | +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 | .315 | .118 | 6/24 | N/A | 1.5 | 27 | 18.000 | +.018/-0 +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 | 27 | 22.050 | +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

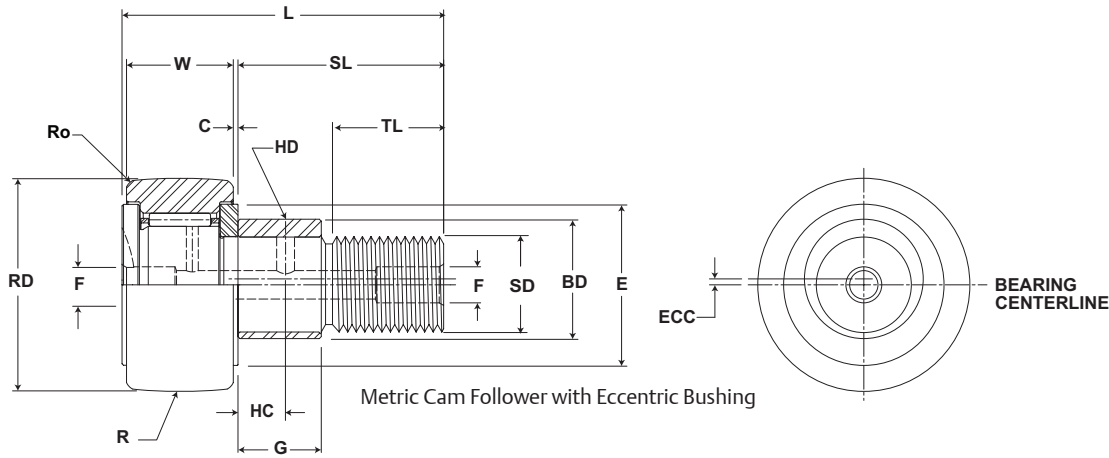


MCF, MCFE

| 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 | | | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | mm inch | Base Modifier MCFE-xx | | | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | (Ref) | +05/- .15 + .002/- .006 | (Ref) | | |
| 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 | 13,340 2,999 | 19,800 4,451 |
| MCFE 40A B | MCFE 40A SB | | Cylindrical | | | | | | | | | | | | | | |
| MCFE 40A X | MCFE 40A SX | | | | | | | | | | | | | | | | |
| MCFE 40A BX | MCFE 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 | 13,340 2,999 | 19,800 4,451 |
| MCFRE 40A B | MCFRE 40A SB | | Cylindrical | | | | | | | | | | | | | | |
| MCFRE 40A X | MCFRE 40A SX | | | | | | | | | | | | | | | | |
| MCFRE 40A BX | 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 | 17,750 3,991 | 29,800 6,700 |
| MCFE 47 B | MCFE 47 SB | | Cylindrical | | | | | | | | | | | | | | |
| MCFE 47 X | MCFE 47 SX | | | | | | | | | | | | | | | | |
| MCFE 47 BX | MCFE 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 | 17,750 3,991 | 29,800 6,700 |
| MCFRE 47 B | MCFRE 47 SB | | Cylindrical | | | | | | | | | | | | | | |
| MCFRE 47 X | MCFRE 47 SX | | | | | | | | | | | | | | | | |
| MCFRE 47 BX | MCFRE 47 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.



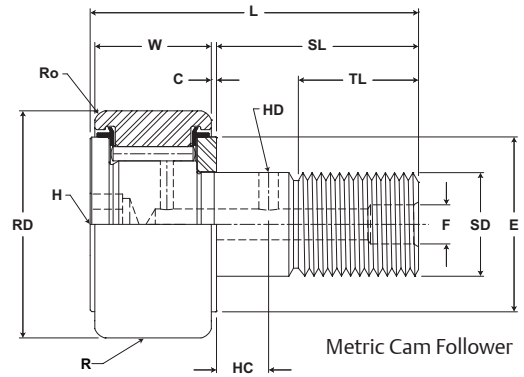
MCF, MCFE

| 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. | | kg lb | | |
| MCF 40A | MCF 40A S | 10 .394 | 3 .118 | 6 .24 | N/A | 1.5 .06 | 27 1.1 | 18.000 .7087 | +0.018/-0 +0.0007/-0 | M18x1.5 | 118 1,044 | 3,300 | .25 .55 |
| MCF 40A B | MCF 40A SB | | | - | 8 .31 | | | | | | | | |
| MCF 40A X | MCF 40A SX | | | 6 .24 | N/A | | | | | | | | |
| MCF 40A BX | MCF 40A SBX | | | - | 8 .31 | | | | | | | | |
| MCFE 40A | MCFE 40A 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 | 118 1,044 | 3,300 | .25 .55 |
| | MCFE 40A SB | | | - | 8 .31 | | | | | | | | |
| | MCFE 40A SX | | | 6 .24 | N/A | | | | | | | | |
| | MCFE 40A SBX | | | - | 8 .31 | | | | | | | | |
| MCFR 40A | MCFR 40A S | 10 .394 | 3 .118 | 6 .24 | N/A | 1.5 .06 | 27 1.1 | 18.000 .7087 | +0.018/-0 +0.0007/-0 | M18x1.5 | 118 1,044 | 5,000 | .25 .55 |
| MCFR 40A B | MCFR 40A SB | | | - | 8 .31 | | | | | | | | |
| MCFR 40A X | MCFR 40A SX | | | 6 .24 | N/A | | | | | | | | |
| MCFR 40A BX | MCFR 40A SBX | | | - | 8 .31 | | | | | | | | |
| MCFRE 40A | MCFRE 40A 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 | 118 1,044 | 5,000 | .25 .55 |
| | MCFRE 40A SB | | | - | 8 .31 | | | | | | | | |
| | MCFRE 40A SX | | | 6 .24 | N/A | | | | | | | | |
| | MCFRE 40A SBX | | | - | 8 .31 | | | | | | | | |
| MCF 47 | MCF 47 S | 9 .354 | 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 47 B | MCF 47 SB | | | - | 10 .39 | | | | | | | | |
| MCF 47 X | MCF 47 SX | | | 8 .31 | N/A | | | | | | | | |
| MCF 47 BX | MCF 47 SBX | | | - | 10 .39 | | | | | | | | |
| MCFE 47 | MCFE 47 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 47 SB | | | - | 10 .39 | | | | | | | | |
| | MCFE 47 SX | | | 8 .31 | N/A | | | | | | | | |
| | MCFE 47 SBX | | | - | 10 .39 | | | | | | | | |
| MCFR 47 | MCFR 47 S | 9 .354 | 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 47 B | MCFR 47 SB | | | - | 10 .39 | | | | | | | | |
| MCFR 47 X | MCFR 47 SX | | | 8 .31 | N/A | | | | | | | | |
| MCFR 47 BX | MCFR 47 SBX | | | - | 10 .39 | | | | | | | | |
| MCFRE 47 | MCFRE 47 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 47 SB | | | - | 10 .39 | | | | | | | | |
| | MCFRE 47 SX | | | 8 .31 | N/A | | | | | | | | |
| | MCFRE 47 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

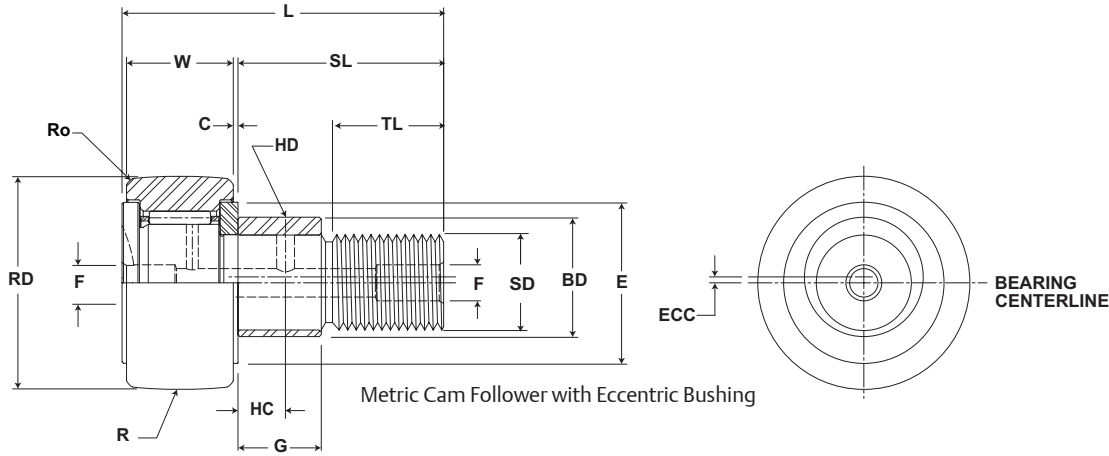


MCF, MCFE

| 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 | Eccentric | | | | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | Suffix MCF-xx-X | Base Modifier MCFE-xx | | | | | |
| | | 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 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | .031 | 22.0 | .87 | 66 | 2.6 | 500 | N/A | N/A | N/A | 25,690 | 46,700 |
| 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 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | .031 | 22.0 | .87 | 66 | 2.6 | 500 | 1 | 18 | 24 | 5,776 | 10,499 |
| MCFE 47A B | MCFE 47A SB | | Cylindrical | | | | | | | | | | | | | | | |
| MCFE 47A X | MCFE 47A SX | | | | | | | | | | | | | | | | | |
| MCFE 47A BX | MCFE 47A SBX | | | | | | | | | | | | | | | | | |
| MCFR 47A | MCFR 47A S | 47.000 1.8504 | +0/- .050 +0/- .002 | 24.000 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | .031 | 22.0 | .87 | 66 | 2.6 | 500 | N/A | N/A | N/A | 17,750 | 29,800 |
| 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 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | .031 | 22.0 | .87 | 66 | 2.6 | 500 | 1 | 18 | 24 | 3,991 | 6,700 |
| MCFRE 47A B | MCFRE 47A SB | | Cylindrical | | | | | | | | | | | | | | | |
| MCFRE 47A X | MCFRE 47A SX | | | | | | | | | | | | | | | | | |
| MCFRE 47A BX | MCFRE 47A SBX | | | | | | | | | | | | | | | | | |
| MCF 52 | MCF 52 S | 52.000 2.0472 | +0/- .050 +0/- .002 | 24.000 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | .031 | 21.0 | .83 | 66 | 2.6 | 500 | N/A | N/A | N/A | 25,690 | 46,700 |
| 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 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | .031 | 21.0 | .83 | 66 | 2.6 | 500 | 1 | 18 | 24 | 5,776 | 10,499 |
| MCFE 52 B | MCFE 52 SB | | Cylindrical | | | | | | | | | | | | | | | |
| MCFE 52 X | MCFE 52 SX | | | | | | | | | | | | | | | | | |
| MCFE 52 BX | MCFE 52 SBX | | | | | | | | | | | | | | | | | |
| MCFR 52 | MCFR 52 S | 52.000 2.0472 | +0/- .050 +0/- .002 | 24.000 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | .031 | 21.0 | .83 | 66 | 2.6 | 500 | N/A | N/A | N/A | 17,750 | 29,800 |
| 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 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | .031 | 21.0 | .83 | 66 | 2.6 | 500 | 1 | 18 | 24 | 3,991 | 6,700 |
| MCFRE 52 B | MCFRE 52 SB | | Cylindrical | | | | | | | | | | | | | | | |
| MCFRE 52 X | MCFRE 52 SX | | | | | | | | | | | | | | | | | |
| MCFRE 52 BX | 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.



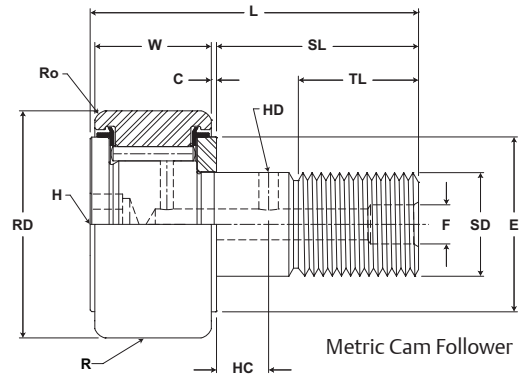
MCF, MCFE

| 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 | mm inch | | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | kg lb | | |
| MCF 47A | MCF 47A S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 118 1,044 | 2,600 | .39 .86 |
| MCF 47A B | MCF 47A SB | 12 | 4 | - | $\frac{10}{.39}$ | 1.5 | 30 | 20.000 | +0.021/-0 | | | | |
| MCF 47A X | MCF 47A SX | .472 | .157 | $\frac{8}{.31}$ | N/A | .06 | 1.2 | .7874 | +0.0008/-0 | | | | |
| MCF 47A BX | MCF 47A SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCFE 47A | MCFE 47A S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 118 1,044 | 2,600 | .39 .86 |
| | MCFE 47A SB | N/A | N/A | - | $\frac{10}{.39}$ | 1.5 | 30 | 24.050 | +0.025/-0 | | | | |
| | MCFE 47A SX | | | $\frac{8}{.31}$ | N/A | .06 | 1.2 | .9469 | +0.0009/-0 | | | | |
| | MCFE 47A SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCFR 47A | MCFR 47A S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 118 1,044 | 3,900 | .39 .86 |
| MCFR 47A B | MCFR 47A SB | 12 | 4 | - | $\frac{10}{.39}$ | 1.5 | 30 | 20.000 | +0.021/-0 | | | | |
| MCFR 47A X | MCFR 47A SX | .472 | .157 | $\frac{8}{.31}$ | N/A | .06 | 1.2 | .7874 | +0.0008/-0 | | | | |
| MCFR 47A BX | MCFR 47A SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCFRE 47A | MCFRE 47A S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 118 1,044 | 3,900 | .39 .86 |
| | MCFRE 47A SB | N/A | N/A | - | $\frac{10}{.39}$ | 1.5 | 30 | 24.050 | +0.025/-0 | | | | |
| | MCFRE 47A SX | | | $\frac{8}{.31}$ | N/A | .06 | 1.2 | .9469 | +0.0009/-0 | | | | |
| | MCFRE 47A SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCF 52 | MCF 52 S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 118 1,044 | 2,600 | .45 .99 |
| MCF 52 B | MCF 52 SB | 9 | 4 | - | $\frac{10}{.39}$ | 1.5 | 36 | 20.000 | +0.021/-0 | | | | |
| MCF 52 X | MCF 52 SX | .354 | .157 | $\frac{8}{.31}$ | N/A | .06 | 1.4 | .7874 | +0.0008/-0 | | | | |
| MCF 52 BX | MCF 52 SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCFE 52 | MCFE 52 S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 118 1,044 | 2,600 | .45 .99 |
| | MCFE 52 SB | N/A | N/A | - | $\frac{10}{.39}$ | 1.5 | 36 | 24.050 | +0.025/-0 | | | | |
| | MCFE 52 SX | | | $\frac{8}{.31}$ | N/A | .06 | 1.4 | .9469 | +0.0009/-0 | | | | |
| | MCFE 52 SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCFR 52 | MCFR 52 S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 118 1,044 | 3,900 | .45 .99 |
| MCFR 52 B | MCFR 52 SB | 9 | 4 | - | $\frac{10}{.39}$ | 1.5 | 36 | 20.000 | +0.021/-0 | | | | |
| MCFR 52 X | MCFR 52 SX | .354 | .157 | $\frac{8}{.31}$ | N/A | .06 | 1.4 | .7874 | +0.0008/-0 | | | | |
| MCFR 52 BX | MCFR 52 SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCFRE 52 | MCFRE 52 S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 118 1,044 | 3,900 | .45 .99 |
| | MCFRE 52 SB | N/A | N/A | - | $\frac{10}{.39}$ | 1.5 | 36 | 24.050 | +0.025/-0 | | | | |
| | MCFRE 52 SX | | | $\frac{8}{.31}$ | N/A | .06 | 1.4 | .9469 | +0.0009/-0 | | | | |
| | MCFRE 52 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

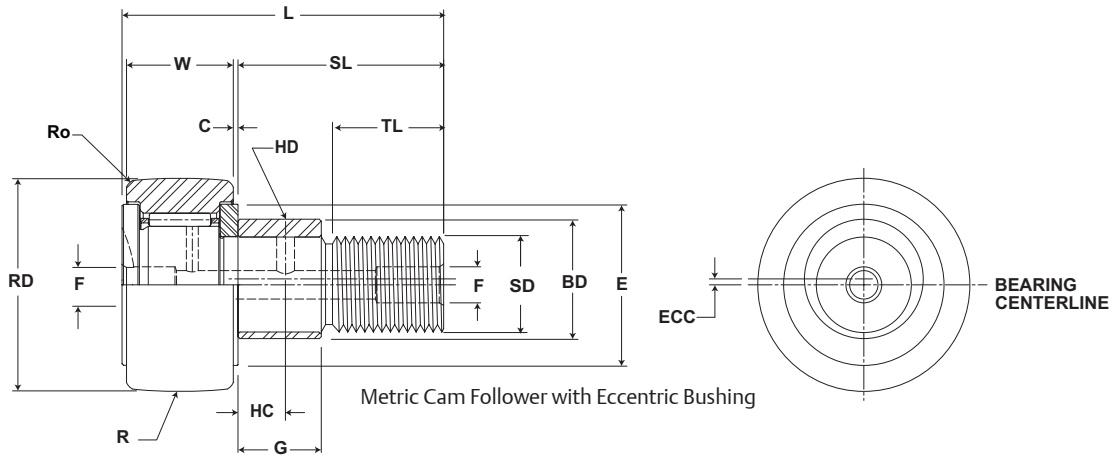


MCF, MCCE

| 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 | | | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | mm inch | Base Modifier | | | | |
| | | 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 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | 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 | | Cylindrical | | | | | | | | | | | | | | |
| MCF 52A BX | MCF 52A SBX | | | | | | | | | | | | | | | | |
| MCCE 52A | MCCE 52A S | 52.000 2.0472 | +0/- .050 +0/- .002 | 24.000 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | 22.0 | .87 | 66 | 2.6 | 500 19.7 | 1 | 18 | 24 | 25,690 5,776 | 46,700 10,499 |
| | MCCE 52A SB | | Cylindrical | | | | | | | | | | | | | | |
| | MCCE 52A SX | | | | | | | | | | | Cylindrical | | | | | |
| | MCCE 52A SBX | | | | | | | | | | | | | | | | |
| MCFR 52A | MCFR 52A S | 52.000 2.0472 | +0/- .050 +0/- .002 | 24.000 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | 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 | | | | | | | | | | | Cylindrical | | | | | |
| MCFR 52A BX | MCFR 52A SBX | | | | | | | | | | | | | | | | |
| MCFRE 52A | MCFRE 52A S | 52.000 2.0472 | +0/- .050 +0/- .002 | 24.000 +0/- .12 .9449 +0/- .005 | 20.000 +0/- .021 .7874 +0/- .0008 | 41 | .80 | 22.0 | .87 | 66 | 2.6 | 500 19.7 | 1 | 18 | 24 | 17,750 3,991 | 29,800 6,700 |
| | MCFRE 52A SB | | Cylindrical | | | | | | | | | | | | | | |
| | MCFRE 52A SX | | | | | | | | | | | Cylindrical | | | | | |
| | MCFRE 52A SBX | | | | | | | | | | | | | | | | |
| MCF 62 | MCF 62 S | 62.000 2.4409 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +0/- .0008 | 50 | .80 | 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 | | | | | | | | | | | Cylindrical | | | | | |
| MCF 62 BX | MCF 62 SBX | | | | | | | | | | | | | | | | |
| MCCE 62 | MCCE 62 S | 62.000 2.4409 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +0/- .0008 | 50 | .80 | 25.0 | .98 | 80 | 3.1 | 500 19.7 | 1 | 22 | 28 | 38,840 8,732 | 65,400 14,703 |
| | MCCE 62 SB | | Cylindrical | | | | | | | | | | | | | | |
| | MCCE 62 SX | | | | | | | | | | | Cylindrical | | | | | |
| | MCCE 62 SBX | | | | | | | | | | | | | | | | |
| MCFR 62 | MCFR 62 S | 62.000 2.4409 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +0/- .0008 | 50 | .80 | 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 | | | | | | | | | | | Cylindrical | | | | | |
| MCFR 62 BX | MCFR 62 SBX | | | | | | | | | | | | | | | | |
| MCFRE 62 | MCFRE 62 S | 62.000 2.4409 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +0/- .0008 | 50 | .80 | 25.0 | .98 | 80 | 3.1 | 500 19.7 | 1 | 22 | 28 | 26,380 5,931 | 46,300 10,409 |
| | MCFRE 62 SB | | Cylindrical | | | | | | | | | | | | | | |
| | MCFRE 62 SX | | | | | | | | | | | Cylindrical | | | | | |
| | MCFRE 62 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.
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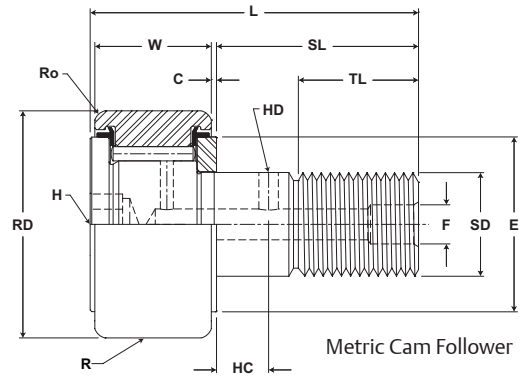
MCF, MCFE

| 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. | | | | |
| MCF 52A | MCF 52A S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 216 1,912 | 2,600 | .45 .99 |
| MCF 52A B | MCF 52A SB | 12 | 4 | - | $\frac{10}{.39}$ | 1.5 | 36 | 20.000 | +0.021/-0 | | | | |
| MCF 52A X | MCF 52A SX | .472 | .157 | $\frac{8}{.31}$ | N/A | .06 | 1.4 | .7874 | +0.0008/-0 | | | | |
| MCF 52A BX | MCF 52A SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCFE 52A | MCFE 52A S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 216 1,912 | 2,600 | .45 .99 |
| | MCFE 52A SB | N/A | N/A | - | $\frac{10}{.39}$ | 1.5 | 36 | 24.050 | +0.025/-0 | | | | |
| | MCFE 52A SX | | | $\frac{8}{.31}$ | N/A | .06 | 1.4 | .9469 | +0.0009/-0 | | | | |
| | MCFE 52A SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCFR 52A | MCFR 52A S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 216 1,912 | 3,900 | .45 .99 |
| MCFR 52A B | MCFR 52A SB | 12 | 4 | - | $\frac{10}{.39}$ | 1.5 | 36 | 20.000 | +0.021/-0 | | | | |
| MCFR 52A X | MCFR 52A SX | .472 | .157 | $\frac{8}{.31}$ | N/A | .06 | 1.4 | .7874 | +0.0008/-0 | | | | |
| MCFR 52A BX | MCFR 52A SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCFRE 52A | MCFRE 52A S | | | $\frac{8}{.31}$ | N/A | | | | | M20x1.5 | 216 1,912 | 3,900 | .45 .99 |
| | MCFRE 52A SB | N/A | N/A | - | $\frac{10}{.39}$ | 1.5 | 36 | 24.050 | +0.025/-0 | | | | |
| | MCFRE 52A SX | | | $\frac{8}{.31}$ | N/A | .06 | 1.4 | .9469 | +0.0009/-0 | | | | |
| | MCFRE 52A SBX | | | - | $\frac{10}{.39}$ | | | | | | | | |
| MCF 62 | MCF 62 S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 2,100 | .81 1.79 |
| MCF 62 B | MCF 62 SB | 11 | 4 | - | $\frac{14}{.55}$ | 2.0 | 44 | 24.000 | +0.021/-0 | | | | |
| MCF 62 X | MCF 62 SX | .433 | .157 | $\frac{8}{.31}$ | N/A | .08 | 1.7 | .9449 | +0.0008/-0 | | | | |
| MCF 62 BX | MCF 62 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFE 62 | MCFE 62 S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 2,100 | .81 1.79 |
| | MCFE 62 SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 28.050 | +0.025/-0 | | | | |
| | MCFE 62 SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1043 | +0.0009/-0 | | | | |
| | MCFE 62 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFR 62 | MCFR 62 S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 3,100 | .81 1.79 |
| MCFR 62 B | MCFR 62 SB | 11 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 24.000 | +0.021/-0 | | | | |
| MCFR 62 X | MCFR 62 SX | .433 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .9449 | +0.0008/-0 | | | | |
| MCFR 62 BX | MCFR 62 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFRE 62 | MCFRE 62 S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 3,100 | .81 1.79 |
| | MCFRE 62 SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 28.050 | +0.025/-0 | | | | |
| | MCFRE 62 SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1043 | +0.0009/-0 | | | | |
| | MCFRE 62 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |

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

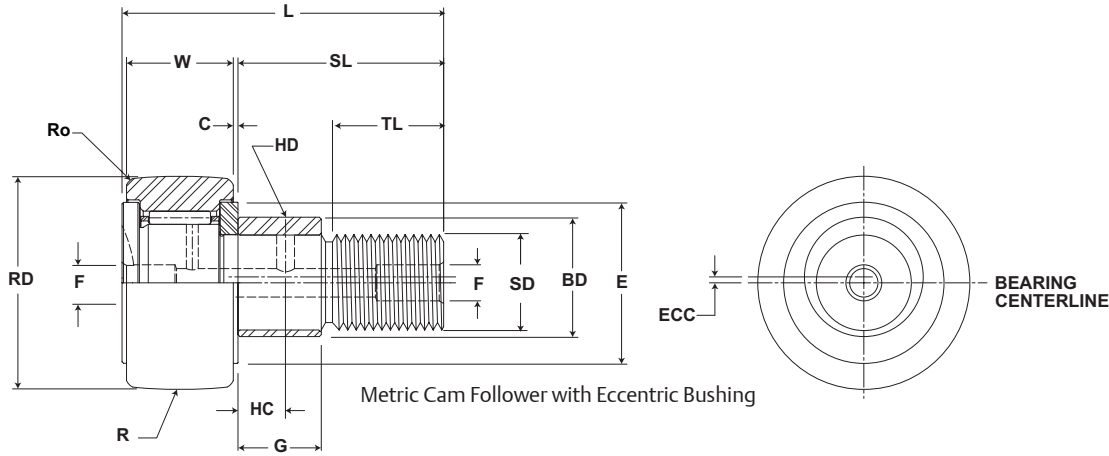


MCF, MCFE

| 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 | | | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | Suffix MCF-xx-X | Base Modifier MCFE-xx | | | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | (Ref) | +05/- .15 + .002/- .006 | (Ref) | | |
| MCF 62A | MCF 62A S | 62.000 2.4409 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +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 | | | | | | | | | | | | | | | | |
| MCF 62A X | MCF 62A SX | | | | | | | | | | | | | | | | |
| MCF 62A BX | MCF 62A SBX | | | | | | | | | | | | | | | | |
| MCFE 62A | MCFE 62A S | 62.000 2.4409 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +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 B | MCFE 62A SB | | | | | | | | | | | | | | | | |
| MCFE 62A X | MCFE 62A SX | | | | | | | | | | | | | | | | |
| MCFE 62A BX | MCFE 62A SBX | | | | | | | | | | | | | | | | |
| MCFRE 62A | MCFRE 62A S | 62.000 2.4409 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +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 B | MCFRE 62A SB | | | | | | | | | | | | | | | | |
| MCFRE 62A X | MCFRE 62A SX | | | | | | | | | | | | | | | | |
| MCFRE 62A BX | MCFRE 62A SBX | | | | | | | | | | | | | | | | |
| MCF 72 | MCF 72 S | 72.000 2.8346 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +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 | | | | | | | | | | | | | | | | |
| MCF 72 X | MCF 72 SX | | | | | | | | | | | | | | | | |
| MCF 72 BX | MCF 72 SBX | | | | | | | | | | | | | | | | |
| MCFE 72 | MCFE 72 S | 72.000 2.8346 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +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 B | MCFE 72 SB | | | | | | | | | | | | | | | | |
| MCFE 72 X | MCFE 72 SX | | | | | | | | | | | | | | | | |
| MCFE 72 BX | MCFE 72 SBX | | | | | | | | | | | | | | | | |
| MCFR 72 | MCFR 72 S | 72.000 2.8346 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +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 | | | | | | | | | | | | | | | | |
| MCFR 72 X | MCFR 72 SX | | | | | | | | | | | | | | | | |
| MCFR 72 BX | MCFR 72 SBX | | | | | | | | | | | | | | | | |
| MCFRE 72 | MCFRE 72 S | 72.000 2.8346 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +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 B | MCFRE 72 SB | | | | | | | | | | | | | | | | |
| MCFRE 72 X | MCFRE 72 SX | | | | | | | | | | | | | | | | |
| MCFRE 72 BX | 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.



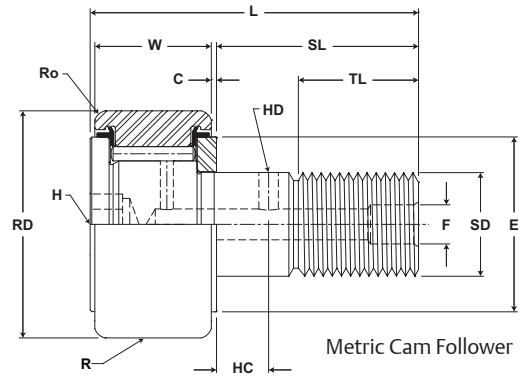
MCF, MCFE

| 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. | | | | |
| MCF 62A | MCF 62A S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 2,100 | .81 1.79 |
| MCF 62A B | MCF 62A SB | 12 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 24.000 | +0.021/-0 | | | | |
| MCF 62A X | MCF 62A SX | .472 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .9449 | +0.0008/-0 | | | | |
| MCF 62A BX | MCF 62A SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFE 62A | MCFE 62A S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 2,100 | .81 1.79 |
| | MCFE 62A SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 28.050 | +0.025/-0 | | | | |
| | MCFE 62A SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1043 | +0.0009/-0 | | | | |
| | MCFE 62A SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFR 62A | MCFR 62A S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 3,100 | .81 1.79 |
| MCFR 62A B | MCFR 62A SB | 12 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 24.000 | +0.021/-0 | | | | |
| MCFR 62A X | MCFR 62A SX | .472 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .9449 | +0.0008/-0 | | | | |
| MCFR 62A BX | MCFR 62A SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFRE 62A | MCFRE 62A S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 3,100 | .81 1.79 |
| | MCFRE 62A SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 28.050 | +0.025/-0 | | | | |
| | MCFRE 62A SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1043 | +0.0009/-0 | | | | |
| | MCFRE 62A SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCF 72 | MCF 72 S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 2,100 | 1.04 2.29 |
| MCF 72 B | MCF 72 SB | 12 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 24.000 | +0.021/-0 | | | | |
| MCF 72 X | MCF 72 SX | .472 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .9449 | +0.0008/-0 | | | | |
| MCF 72 BX | MCF 72 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFE 72 | MCFE 72 S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 2,100 | 1.04 2.29 |
| | MCFE 72 SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 28.050 | +0.025/-0 | | | | |
| | MCFE 72 SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1043 | +0.0009/-0 | | | | |
| | MCFE 72 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFR 72 | MCFR 72 S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 3,100 | 1.04 2.29 |
| MCFR 72 B | MCFR 72 SB | 12 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 24.000 | +0.021/-0 | | | | |
| MCFR 72 X | MCFR 72 SX | .472 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .9449 | +0.0008/-0 | | | | |
| MCFR 72 BX | MCFR 72 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFRE 72 | MCFRE 72 S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 3,100 | 1.04 2.29 |
| | MCFRE 72 SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 28.050 | +0.025/-0 | | | | |
| | MCFRE 72 SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1043 | +0.0009/-0 | | | | |
| | MCFRE 72 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |

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

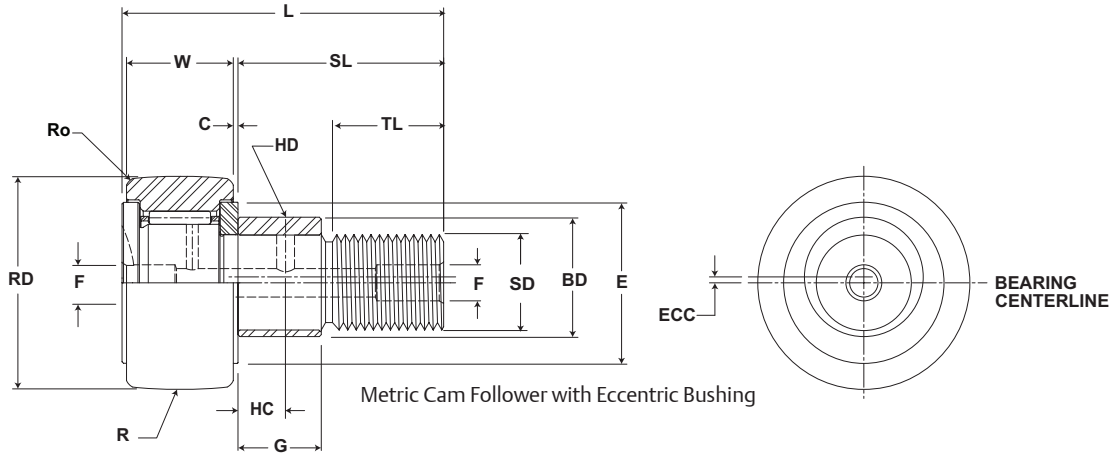


MCF, MCFE

| 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 | | | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | mm inch | Base Modifier | | | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | (Ref) | +05/- .15 + .002/- .006 | (Ref) | (Ref) | N/lb |
| MCF 72A | MCF 72A S | 72.000 2.8346 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +0/- .0008 | 50 1.9 | .80 .031 | 25.0 .98 | 80 3.1 | 500 19.7 | Cylindrical | 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 | | | | | | | | | | | | | | | | |
| MCF 72A BX | MCF 72A SBX | | | | | | | | | | | | | | | | |
| MCFE 72A | MCFE 72A S | 72.000 2.8346 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +0/- .0008 | 50 1.9 | .80 .031 | 25.0 .98 | 80 3.1 | 500 19.7 | Cylindrical | 1 .04 | 22 0.87 | 28 .10 | 26,380 5,931 | 46,300 10,409 | |
| MCFE 72A B | MCFE 72A SB | | | | | | | | | | | | | | | | |
| MCFE 72A X | MCFE 72A SX | | | | | | | | | | | | | | | | |
| MCFE 72A BX | MCFE 72A SBX | | | | | | | | | | | | | | | | |
| MCFRE 72A | MCFRE 72A S | 72.000 2.8346 | +0/- .050 +0/- .002 | 29.000 +0/- .12 1.1417 +0/- .005 | 24.000 +0/- .021 .9449 +0/- .0008 | 50 1.9 | .80 .031 | 25.0 .98 | 80 3.1 | 500 19.7 | Cylindrical | 1 .04 | 22 0.87 | 28 .10 | 64,140 14,420 | 102,300 22,999 | |
| MCFRE 72A B | MCFRE 72A SB | | | | | | | | | | | | | | | | |
| MCFRE 72A X | MCFRE 72A SX | | | | | | | | | | | | | | | | |
| MCFRE 72A BX | MCFRE 72A SBX | | | | | | | | | | | | | | | | |
| MCF 80 | MCF 80 S | 80.000 3.1496 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 2.5 | 1.00 .039 | 32.0 1.26 | 100 3.9 | 500 19.7 | Cylindrical | N/A | N/A | N/A | 46,680 10,495 | 87,600 19,694 | |
| MCF 80 B | MCF 80 SB | | | | | | | | | | | | | | | | |
| MCF 80 X | MCF 80 SX | | | | | | | | | | | | | | | | |
| MCF 80 BX | MCF 80 SBX | | | | | | | | | | | | | | | | |
| MCFE 80 | MCFE 80 S | 80.000 3.1496 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 2.5 | 1.00 .039 | 32.0 1.26 | 100 3.9 | 500 19.7 | Cylindrical | 1.5 .06 | 29 1.14 | 35 .38 | 46,680 10,495 | 87,600 19,694 | |
| MCFE 80 B | MCFE 80 SB | | | | | | | | | | | | | | | | |
| MCFE 80 X | MCFE 80 SX | | | | | | | | | | | | | | | | |
| MCFE 80 BX | MCFE 80 SBX | | | | | | | | | | | | | | | | |
| MCFRE 80A | MCFRE 80A S | 80.000 3.1496 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 2.5 | 1.00 .039 | 32.0 1.26 | 100 3.9 | 500 19.7 | Cylindrical | 1.5 .06 | 29 1.14 | 35 .38 | 46,680 10,495 | 87,600 19,694 | |
| MCFRE 80A B | MCFRE 80A SB | | | | | | | | | | | | | | | | |
| MCFRE 80A X | MCFRE 80A SX | | | | | | | | | | | | | | | | |
| MCFRE 80A BX | MCFRE 80A 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.



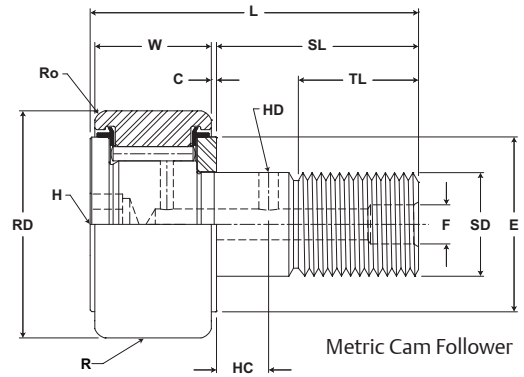
MCF, MCFE

| 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. | | kg lb | | |
| MCF 72A | MCF 72A S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 2,100 | 1.04 2.29 |
| MCF 72A B | MCF 72A SB | 11 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 24.000 | +0.021/-0 | | | | |
| MCF 72A X | MCF 72A SX | .433 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .9449 | +0.0008/-0 | | | | |
| MCF 72A BX | MCF 72A SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFE 72A | MCFE 72A S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 2,100 | 1.04 2.29 |
| | MCFE 72A SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 28.050 | +0.025/-0 | | | | |
| | MCFE 72A SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1043 | +0.0009/-0 | | | | |
| | MCFE 72A SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFR 72A | MCFR 72A S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 3,100 | 1.04 2.29 |
| MCFR 72A B | MCFR 72A SB | 11 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 24.000 | +0.021/-0 | | | | |
| MCFR 72A X | MCFR 72A SX | .433 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .9449 | +0.0008/-0 | | | | |
| MCFR 72A BX | MCFR 72A SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFRE 72A | MCFRE 72A S | | | $\frac{8}{.31}$ | N/A | | | | | M24x1.5 | 216 1,912 | 3,100 | 1.04 2.29 |
| | MCFRE 72A SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 28.050 | +0.025/-0 | | | | |
| | MCFRE 72A SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1043 | +0.0009/-0 | | | | |
| | MCFRE 72A SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCF 80 | MCF 80 S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 1,500 | 1.64 3.62 |
| MCF 80 B | MCF 80 SB | 15 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 30.000 | +0.021/-0 | | | | |
| MCF 80 X | MCF 80 SX | .591 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1811 | +0.0008/-0 | | | | |
| MCF 80 BX | MCF 80 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFE 80 | MCFE 80 S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 2,200 | 1.64 3.62 |
| | MCFE 80 SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 35.050 | +0.025/-0 | | | | |
| | MCFE 80 SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .3799 | +0.0009/-0 | | | | |
| | MCFE 80 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFR 80A | MCFR 80A S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 2,200 | 1.64 3.62 |
| MCFR 80A B | MCFR 80A SB | 15 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 30.000 | +0.021/-0 | | | | |
| MCFR 80A X | MCFR 80A SX | .591 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1811 | +0.0008/-0 | | | | |
| MCFR 80A BX | MCFR 80A SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFRE 80A | MCFRE 80A S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 2,200 | 1.64 3.62 |
| | MCFRE 80A SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 35.050 | +0.025/-0 | | | | |
| | MCFRE 80A SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .3799 | +0.0009/-0 | | | | |
| | MCFRE 80A SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |

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

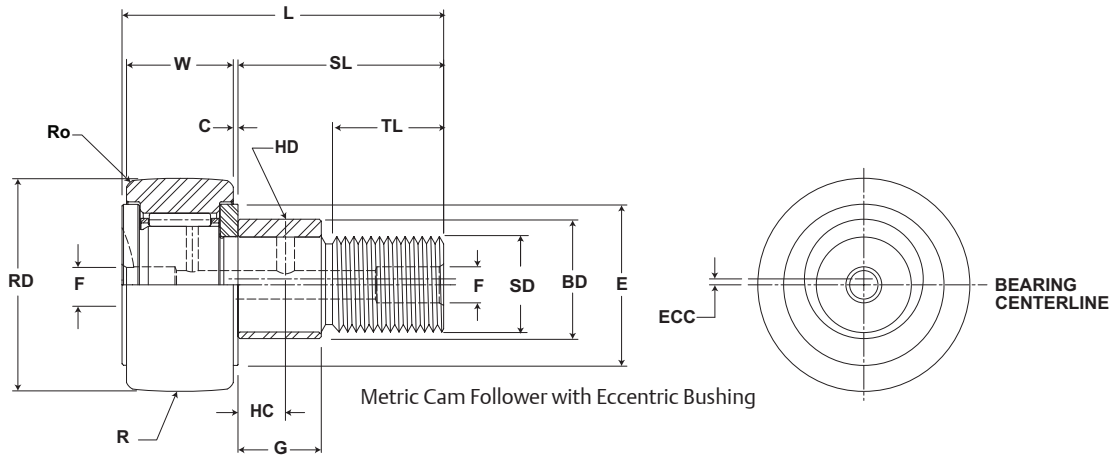


MCF, MCFE

| 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 | | | N/lb | N/lb | | |
| | | mm inch | | mm inch | | mm inch | | mm inch | mm inch | mm inch | mm inch | mm inch | Base Modifier MCFE-xx | | | | | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | (Ref) | +05/- .15 +.002/- .006 | (Ref) | | | | |
| MCF 80 | MCF 80 S | 85.000 3.3465 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 | 2.5 | 1.00 | .039 | 32.0 | 100 | 3.9 | 500 | N/A | N/A | N/A | 64,140 14,420 | 102,300 22,999 | |
| MCF 80 B | MCF 80 SB | | 19.7 | | | | | | | | | | | | | | | | |
| MCF 80 X | MCF 80 SX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCF 80 BX | MCF 80 SBX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFE 80 | MCFE 80 S | 85.000 3.3465 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 | 2.5 | 1.00 | .039 | 32.0 | 100 | 3.9 | 500 | 1.5 | .06 | 29 | 1.14 | 35 | .38 |
| MCFE 80 SB | MCFE 80 SX | | 19.7 | | | | | | | | | | | | | | | | |
| MCFE 80 SX | MCFE 80 SBX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFE 80 SBX | | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFR 85 | MCFR 85 S | 85.000 3.3465 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 | 2.5 | 1.00 | .039 | 32.0 | 100 | 3.9 | 500 | N/A | N/A | N/A | 46,680 10,495 | 87,600 19,694 | |
| MCFR 85 B | MCFR 85 SB | | 19.7 | | | | | | | | | | | | | | | | |
| MCFR 85 X | MCFR 85 SX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFR 85 BX | MCFR 85 SBX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFRE 85 | MCFRE 85 S | 85.000 3.3465 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 | 2.5 | 1.00 | .039 | 32.0 | 100 | 3.9 | 500 | 1.5 | .06 | 29 | 1.14 | 35 | .38 |
| MCFRE 85 B | MCFRE 85 SB | | 19.7 | | | | | | | | | | | | | | | | |
| MCFRE 85 X | MCFRE 85 SX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFRE 85 BX | MCFRE 85 SBX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCF 90 | MCF 90 S | 90.000 3.5433 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 | 2.5 | 1.00 | .039 | 32.0 | 100 | 3.9 | 500 | N/A | N/A | N/A | 64,140 14,420 | 102,300 22,999 | |
| MCF 90 B | MCF 90 SB | | 19.7 | | | | | | | | | | | | | | | | |
| MCF 90 X | MCF 90 SX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCF 90 BX | MCF 90 SBX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFE 90 | MCFE 90 S | 90.000 3.5433 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 | 2.5 | 1.00 | .039 | 32.0 | 100 | 3.9 | 500 | 1.5 | .06 | 29 | 1.14 | 35 | .38 |
| MCFE 90 SB | MCFE 90 SX | | 19.7 | | | | | | | | | | | | | | | | |
| MCFE 90 SX | MCFE 90 SBX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFE 90 SBX | | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFR 90 | MCFR 90 S | 90.000 3.5433 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 | 2.5 | 1.00 | .039 | 32.0 | 100 | 3.9 | 500 | N/A | N/A | N/A | 46,680 10,495 | 87,600 19,694 | |
| MCFR 90 B | MCFR 90 SB | | 19.7 | | | | | | | | | | | | | | | | |
| MCFR 90 X | MCFR 90 SX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFR 90 BX | MCFR 90 SBX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFRE 90 | MCFRE 90 S | 90.000 3.5433 | +0/- .050 +0/- .002 | 35.000 +0/- .12 1.3780 +0/- .005 | 30.000 +0/- .021 1.1811 +0/- .0008 | 63 | 2.5 | 1.00 | .039 | 32.0 | 100 | 3.9 | 500 | 1.5 | .06 | 29 | 1.14 | 35 | .38 |
| MCFRE 90 SB | MCFRE 90 SX | | 19.7 | | | | | | | | | | | | | | | | |
| MCFRE 90 SX | MCFRE 90 SBX | | Cylindrical | | | | | | | | | | | | | | | | |
| MCFRE 90 SBX | | | Cylindrical | | | | | | | | | | | | | | | | |

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.



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. | | | | |
| MCF 80 | MCF 80 S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 1,500 | 1.64 3.62 |
| MCF 80 B | MCF 80 SB | 15 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 30.000 | +0.021/-0 | | | | |
| MCF 80 X | MCF 80 SX | .591 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1811 | +0.0008/-0 | | | | |
| MCF 80 BX | MCF 80 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFE 80 | MCFE 80 S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 1,500 | 1.64 3.62 |
| | MCFE 80 SB | 15 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 35.050 | +0.025/-0 | | | | |
| | MCFE 80 SX | .591 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .3799 | +0.0009/-0 | | | | |
| | MCFE 80 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFR 85 | MCFR 85 S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 2,200 | 1.81 3.99 |
| MCFR 85 B | MCFR 85 SB | 15 | 4 | - | $\frac{14}{.55}$ | 2.0 | 63 | 30.000 | +0.021/-0 | | | | |
| MCFR 85 X | MCFR 85 SX | .591 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .1811 | +0.0008/-0 | | | | |
| MCFR 85 BX | MCFR 85 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFRE 85 | MCFRE 85 S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 2,200 | 1.81 3.99 |
| MCFRE 85 B | MCFRE 85 SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 63 | 35.050 | +0.025/-0 | | | | |
| MCFRE 85 X | MCFRE 85 SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.5 | .3799 | +0.0009/-0 | | | | |
| MCFRE 85 BX | MCFRE 85 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCF 90 | MCF 90 S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 1,500 | 1.99 4.39 |
| MCF 90 B | MCF 90 SB | 15 | 4 | - | $\frac{14}{.55}$ | 2.0 | 68 | 30.000 | +0.021/-0 | | | | |
| MCF 90 X | MCF 90 SX | .591 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.7 | .1811 | +0.0008/-0 | | | | |
| MCF 90 BX | MCF 90 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFE 90 | MCFE 90 S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 1,500 | 1.99 4.39 |
| | MCFE 90 SB | 15 | 4 | - | $\frac{14}{.55}$ | 2.0 | 68 | 35.050 | +0.025/-0 | | | | |
| | MCFE 90 SX | .591 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.7 | .3799 | +0.0009/-0 | | | | |
| | MCFE 90 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFR 90 | MCFR 90 S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 2,200 | 1.99 4.39 |
| MCFR 90 B | MCFR 90 SB | 15 | 4 | - | $\frac{14}{.55}$ | 2.0 | 68 | 30.000 | +0.021/-0 | | | | |
| MCFR 90 X | MCFR 90 SX | .591 | .157 | $\frac{8}{.31}$ | N/A | .08 | 2.7 | .1811 | +0.0008/-0 | | | | |
| MCFR 90 BX | MCFR 90 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |
| MCFRE 90 | MCFRE 90 S | | | $\frac{8}{.31}$ | N/A | | | | | M30x1.5 | 441 3,903 | 2,200 | 1.99 4.39 |
| | MCFRE 90 SB | N/A | N/A | - | $\frac{14}{.55}$ | 2.0 | 68 | 35.050 | +0.025/-0 | | | | |
| | MCFRE 90 SX | | | $\frac{8}{.31}$ | N/A | .08 | 2.7 | .3799 | +0.0009/-0 | | | | |
| | MCFRE 90 SBX | | | - | $\frac{14}{.55}$ | | | | | | | | |

MCGILL® Metric CAMROL Bearings



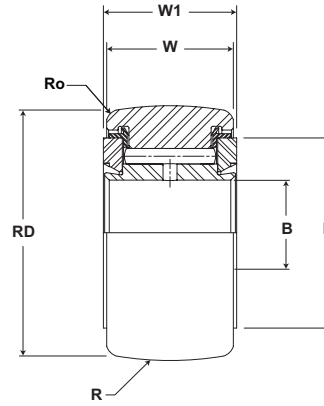
Basic Construction Type: Yoke Type Crowned / Cylindrical Outside Diameter

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

Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2



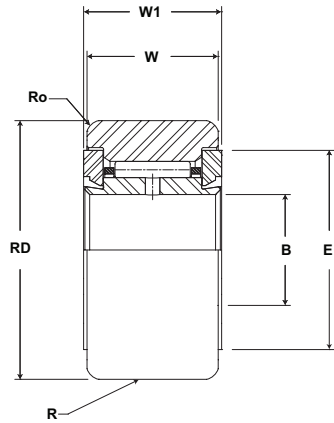
Metric Cam Yoke Roller with Crowned O.D.

MCYR

| Part No. | | RD | | W | | B | | W1 | | R | Track Roller Dynamic Rating | Track Roller Static Rating |
|------------|-----------------------|------------------|-----------------------|---------------|-----------------------|-----------------|-------------------------|-----------------|-----------------------|---------------------------------|-----------------------------|----------------------------|
| W/O Seals | With LUBRI-DISC Seals | Roller Diameter | | Roller Width | | Bore | | Overall Width | | Cylindrical Suffix MCYR-X | N/lb | N/lb |
| | | mm inch | | mm inch | | mm inch | | mm inch | | mm inch | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom | Tol | (Ref) | (Ref) | Radius (Ref) | | |
| MCYR 5 | MCYR 5 S | 16.000 .6299 | 0/-0.05 +0/-0.0002 | 11.00 .433 | +0/- .12 +0/- .005 | 5.000 .1969 | +0/- .008 +0/- .0003 | 12.000 .4724 | +0/- .18 +0/- .007 | 500 20 | 5,790 1,302 | 6,900 1,551 |
| MCYR 5 X | MCYR 5 SX | | Cylindrical | | | | | | | | | |
| MCYRR 5 | MCYRR 5 S | | 500 20 | | | | | | | 3,430 771 | | |
| MCYRR 5 X | MCYRR 5 SX | Cylindrical | | | | | | | | | | |
| MCYR 6 | MCYR 6 S | 19.000 .7480 | 0/-0.05 +0/-0.0002 | 11.00 .433 | +0/- .12 +0/- .009 | 6.000 .2362 | +0/- .008 +0/- .0003 | 12.000 .4724 | +0/- .18 +0/- .007 | 500 20 | 6,670 1,500 | 8,760 1,969 |
| MCYR 6 X | MCYR 6 SX | | Cylindrical | | | | | | | | | |
| MCYRR 6 | MCYRR 6 S | | 500 20 | | | | | | | 3,730 839 | | |
| MCYRR 6 X | MCYRR 6 SX | Cylindrical | | | | | | | | | | |
| MCYR 8 | MCYR 8 S | 24.000 0.9449 | 0/-0.05 +0/-0.0002 | 14.00 .551 | +0/- .12 +0/- .013 | 8.000 .3150 | +0/- .008 +0/- .0003 | 15.000 .5906 | +0/- .18 +0/- .007 | 500 20 | 9,610 2,161 | 12,600 2,833 |
| MCYR 8 X | MCYR 8 SX | | Cylindrical | | | | | | | | | |
| MCYRR 8 | MCYRR 8 S | | 500 20 | | | | | | | 5,690 1,279 | | |
| MCYRR 8 X | MCYRR 8 SX | Cylindrical | | | | | | | | | | |
| MCYR 10 | MCYR 10 S | 30.000 1.1811 | 0/-0.05 +0/-0.0002 | 14.00 .551 | +0/- .12 +0/- .017 | 10.000 .3937 | +0/- .008 +0/- .0003 | 15.000 .5906 | +0/- .18 +0/- .007 | 500 20 | 11,080 2,491 | 15,300 3,440 |
| MCYR 10 X | MCYR 10 SX | | Cylindrical | | | | | | | | | |
| MCYRR 10 | MCYRR 10 S | | 500 20 | | | | | | | 6,860 1,542 | | |
| MCYRR 10 X | MCYRR 10 SX | Cylindrical | | | | | | | | | | |
| MCYR 12 | MCYR 12 S | 32.000 1.2598 | 0/-0.05 +0/-0.0002 | 14.00 .551 | +0/- .12 +0/- .021 | 12.000 .4724 | +0/- .008 +0/- .0003 | 15.000 .5906 | +0/- .18 +0/- .007 | 500 20 | 12,060 2,711 | 17,400 3,912 |
| MCYR 12 X | MCYR 12 SX | | Cylindrical | | | | | | | | | |
| MCYRR 12 | MCYRR 12 S | | 500 20 | | | | | | | 1,260 283 | | |
| MCYRR 12 X | MCYRR 12 SX | Cylindrical | | | | | | | | | | |
| MCYR 15 | MCYR 15 S | 35.000 1.3780 | 0/-0.05 +0/-0.0002 | 18.00 .709 | +0/- .12 +0/- .025 | 15.000 .5906 | +0/- .008 +0/- .0003 | 19.000 .7480 | +0/- .21 +0/- .008 | 500 20 | 16,970 3,815 | 28,500 6,407 |
| MCYR 15 X | MCYR 15 SX | | Cylindrical | | | | | | | | | |
| MCYRR 15 | MCYRR 15 S | | 500 20 | | | | | | | 10,890 2,448 | | |
| MCYRR 15 X | MCYRR 15 SX | Cylindrical | | | | | | | | | | |
| MCYR 17 | MCYR 17 S | 40.000 1.5748 | 0/-0.05 +0/-0.0002 | 20.00 .787 | +0/- .12 +0/- .029 | 17.000 .6693 | +0/- .008 +0/- .0003 | 21.000 .8268 | +0/- .21 +0/- .008 | 500 20 | 19,420 4,366 | 32,200 7,239 |
| MCYR 17 X | MCYR 17 SX | | Cylindrical | | | | | | | | | |
| MCYRR 17 | MCYRR 17 S | | 500 20 | | | | | | | 13,340 2,999 | | |
| MCYRR 17 X | MCYRR 17 SX | Cylindrical | | | | | | | | | | |

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.
 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 Cam Yoke Roller with Cylindrical O.D.

MCYR

| Part No. | | E | Ro | LF | LFT | TF | TFT | Limiting Speed | WT |
|-----------|-----------------------|------------------------|--------------|-----------------------------------|-------------------------|------------------------------------|-------------------|----------------|------------|
| W/O Seals | With LUBRI-DISC Seals | Min. Clamping Diameter | Outer Corner | Recommended Shaft Diameters | | | | | RPM |
| | | mm inch | mm inch | Loose Fit (for light loads) g6 | | Light Fit (for medium loads) h6 | | kg lb | |
| | | | | (Ref) | (Ref) | Nom. | Tol. | | Nom. |
| MCYR 5 | MCYR 5 S | 11 .4 | .30 .012 | 4.996 .1967 | +0/-0.008 +0/-0.0003 | 5.000 .1968 | +0/-0 +0/-0.00 | 13,000 | .01 .02 |
| MCYR 5 X | MCYR 5 SX | | | | | | | 19,500 | |
| MCYRR 5 | MCYRR 5 S | 13 .5 | .30 .012 | 5.996 .2361 | +0/-0.008 +0/-0.0003 | 6.000 .2362 | +0/-0 +0/-0.00 | 10,500 | .02 .04 |
| MCYR 6 X | MCYR 6 SX | | | | | | | 15,500 | |
| MCYRR 6 | MCYRR 6 S | 16 .6 | .50 .020 | 7.995 .3148 | +0/-0.009 +0/-0.0004 | 8.000 .3149 | +0/-0 +0/-0.00 | 8,400 | .04 .09 |
| MCYR 8 X | MCYR 8 SX | | | | | | | 12,500 | |
| MCYRR 8 | MCYRR 8 S | 19 .7 | 1.00 .039 | 9.995 .3935 | +0/-0.009 +0/-0.0004 | 10.000 .3937 | +0/-0 +0/-0.00 | 6,400 | .06 .13 |
| MCYR 10 X | MCYR 10 SX | | | | | | | 9,600 | |
| MCYRR 10 | MCYRR 10 S | 21 .8 | 1.00 .039 | 11.994 .4722 | +0/-0.011 +0/-0.0004 | 12.000 .4724 | +0/-0 +0/-0.00 | 6,400 | .07 .15 |
| MCYR 12 X | MCYR 12 SX | | | | | | | 9,600 | |
| MCYRR 12 | MCYRR 12 S | 24 0.9 | 1.00 .039 | 14.994 .5903 | +0/-0.011 +0/-0.0004 | 15.000 .5905 | +0/-0 +0/-0.00 | 4,200 | .10 .22 |
| MCYR 15 X | MCYR 15 SX | | | | | | | 6,300 | |
| MCYRR 15 | MCYRR 15 S | 27 1.1 | 1.50 .059 | 16.994 .6691 | +0/-0.011 +0/-0.0004 | 17.000 .6692 | +0/-0 +0/-0.00 | 3,300 | .15 .33 |
| MCYR 17 X | MCYR 17 SX | | | | | | | 5,000 | |
| MCYRR 17 | MCYRR 17 S | | | | | | | | |
| MCYR 17 X | MCYR 17 SX | | | | | | | | |

For a tight fit and heavy loads, us ISO tolerance J6.

McGILL® Metric CAMROL Bearings



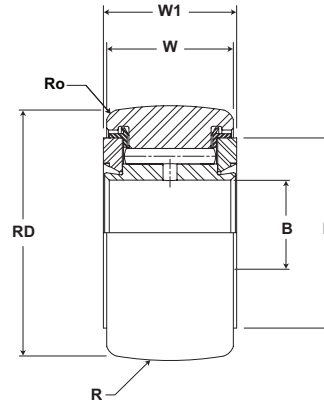
Basic Construction Type: Yoke Type Crowned / Cylindrical Outside Diameter

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

Bearing Material: Bearing Quality Steel

Seal Type: LUBRI-DISC®

Lubrication: Lithium Soap Grease NLGI #2



Metric Cam Yoke Roller with Crowned O.D.

MCYR

| Part No. | | RD | | W | | B | | W1 | | R | Track Roller Dynamic Rating | Track Roller Static Rating |
|------------|-----------------------|------------------|-------------------------|----------------|-----------------------|------------------|-------------------------|------------------|-----------------------|---------------------------------|-----------------------------|----------------------------|
| W/O Seals | With LUBRI-DISC Seals | Roller Diameter | | Roller Width | | Bore | | Overall Width | | Cylindrical Suffix MCYR-X | N/lb | N/lb |
| | | mm inch | | mm inch | | mm inch | | mm inch | | mm inch | | |
| | | Nom. | Tol. | Nom. | Tol. | Nom | Tol | (Ref) | (Ref) | Radius (Ref) | | |
| MCYR 20 | MCYR 20 S | 47.000 1.8504 | 0/-0.05 +0/-0.0002 | 24.00 .945 | +0/- .12 +0/- .033 | 20.000 .7874 | +0/- .010 +0/- .0004 | 25.000 .9843 | +0/- .21 +0/- .008 | 500 20 | 25,690 5,776 | 48,000 10,791 |
| MCYR 20 X | MCYR 20 SX | | +0/- .011 +0/- .0004 | | | | | | | Cylindrical | | |
| MCYRR 20 | MCYRR 20 S | 47.000 1.8504 | 0/-0.05 +0/-0.0002 | 24.00 .945 | +0/- .12 +0/- .033 | 20.000 .7874 | +0/- .010 +0/- .0004 | 25.000 .9843 | +0/- .21 +0/- .008 | 500 20 | 17,750 3,991 | 29,800 6,700 |
| MCYRR 20 X | MCYRR 20 SX | | +0/- .011 +0/- .0004 | | | | | | | Cylindrical | | |
| MCYR 25 | MCYR 25 S | 52.000 2.0472 | 0/-0.05 +0/-0.0002 | 24.00 .945 | +0/- .12 +0/- .037 | 25.000 .9843 | +0/- .010 +0/- .0004 | 25.000 .9843 | +0/- .21 +0/- .008 | 500 20 | 28,440 6,394 | 58,700 13,197 |
| MCYR 25 X | MCYR 25 SX | | +0/- .013 +0/- .0005 | | | | | | | Cylindrical | | |
| MCYRR 25 | MCYRR 25 S | 52.000 2.0472 | 0/-0.05 +0/-0.0002 | 24.00 .945 | +0/- .12 +0/- .037 | 25.000 .9843 | +0/- .010 +0/- .0004 | 25.000 .9843 | +0/- .21 +0/- .008 | 500 20 | 19,120 4,299 | 34,900 7,846 |
| MCYRR 25 X | MCYRR 25 SX | | +0/- .013 +0/- .0005 | | | | | | | Cylindrical | | |
| MCYR 30 | MCYR 30 S | 62.000 2.4409 | 0/-0.05 +0/-0.0002 | 29.00 1.142 | +0/- .12 +0/- .041 | 30.000 1.1811 | +0/- .010 +0/- .0004 | 29.000 1.1417 | +0/- .21 +0/- .008 | 500 20 | 41,480 9,326 | 89,000 20,009 |
| MCYR 30 X | MCYR 30 SX | | +0/- .013 +0/- .0005 | | | | | | | Cylindrical | | |
| MCYRR 30 | MCYRR 30 S | 62.000 2.4409 | 0/-0.05 +0/-0.0002 | 29.00 1.142 | +0/- .12 +0/- .041 | 30.000 1.1811 | +0/- .010 +0/- .0004 | 29.000 1.1417 | +0/- .21 +0/- .008 | 500 20 | 28,340 6,371 | 54,300 12,208 |
| MCYRR 30 X | MCYRR 30 SX | | +0/- .013 +0/- .0005 | | | | | | | Cylindrical | | |
| MCYR 35 | MCYR 35 S | 72.000 2.8346 | 0/-0.05 +0/-0.0002 | 29.00 1.142 | +0/- .12 +0/- .045 | 35.000 1.3780 | +0/- .012 +0/- .0005 | 29.000 1.1417 | +0/- .21 +0/- .008 | 500 20 | 47,370 10,650 | 10,000 2,248 |
| MCYR 35 X | MCYR 35 SX | | +0/- .013 +0/- .0005 | | | | | | | Cylindrical | | |
| MCYRR 35 | MCYRR 35 S | 72.000 2.8346 | 0/-0.05 +0/-0.0002 | 29.00 1.142 | +0/- .12 +0/- .045 | 35.000 1.3780 | +0/- .012 +0/- .0005 | 29.000 1.1417 | +0/- .21 +0/- .008 | 500 20 | 32,460 7,298 | 60,900 13,692 |
| MCYRR 35 X | MCYRR 35 SX | | +0/- .013 +0/- .0005 | | | | | | | Cylindrical | | |
| MCYR 40 | MCYR 40 S | 80.000 3.1496 | 0/-0.05 +0/-0.0002 | 35.00 1.378 | +0/- .12 +0/- .049 | 40.000 1.5748 | +0/- .012 +0/- .0005 | 32.000 1.2598 | +0/- .25 +0/- .010 | 500 20 | 58,350 13,118 | 123,000 27,653 |
| MCYR 40 X | MCYR 40 SX | | +0/- .015 +0/- .0006 | | | | | | | Cylindrical | | |
| MCYRR 40 | MCYRR 40 S | 80.000 3.1496 | 0/-0.05 +0/-0.0002 | 35.00 1.378 | +0/- .12 +0/- .049 | 40.000 1.5748 | +0/- .012 +0/- .0005 | 32.000 1.2598 | +0/- .25 +0/- .010 | 500 20 | 41,480 9,326 | 78,700 17,693 |
| MCYRR 40 X | MCYRR 40 SX | | +0/- .015 +0/- .0006 | | | | | | | Cylindrical | | |
| MCYR 45 | MCYR 45 S | 85.000 3.3465 | 0/-0.05 +0/-0.0002 | 35.00 1.378 | +0/- .12 +0/- .053 | 45.000 1.7717 | +0/- .012 +0/- .0005 | 32.000 1.2598 | +0/- .25 +0/- .010 | 500 20 | 61,490 13,824 | 136,000 30,576 |
| MCYR 45 X | MCYR 45 SX | | +0/- .015 +0/- .0006 | | | | | | | Cylindrical | | |
| MCYRR 45 | MCYRR 45 S | 85.000 3.3465 | 0/-0.05 +0/-0.0002 | 35.00 1.378 | +0/- .12 +0/- .053 | 45.000 1.7717 | +0/- .012 +0/- .0005 | 32.000 1.2598 | +0/- .25 +0/- .010 | 500 20 | 42,760 9,613 | 84,100 18,907 |
| MCYRR 45 X | MCYRR 45 SX | | +0/- .015 +0/- .0006 | | | | | | | Cylindrical | | |
| MCYR 50 | MCYR 50 S | 90.000 3.5433 | 0/-0.05 +0/-0.0002 | 35.00 1.378 | +0/- .12 +0/- .057 | 50.000 1.9685 | +0/- .012 +0/- .0005 | 32.000 1.2598 | +0/- .25 +0/- .010 | 500 20 | 64,330 14,463 | 148,000 33,273 |
| MCYR 50 X | MCYR 50 SX | | +0/- .015 +0/- .0006 | | | | | | | Cylindrical | | |
| MCYRR 50 | MCYRR 50 S | 90.000 3.5433 | 0/-0.05 +0/-0.0002 | 35.00 1.378 | +0/- .12 +0/- .057 | 50.000 1.9685 | +0/- .012 +0/- .0005 | 32.000 1.2598 | +0/- .25 +0/- .010 | 500 20 | 45,600 10,252 | 94,800 21,313 |
| MCYRR 50 X | MCYRR 50 SX | | +0/- .015 +0/- .0006 | | | | | | | Cylindrical | | |

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.

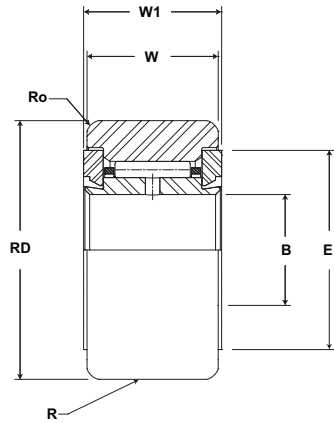
2. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

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

Inch dimensions for reference only.

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 Cam Yoke Roller with Cylindrical O.D.

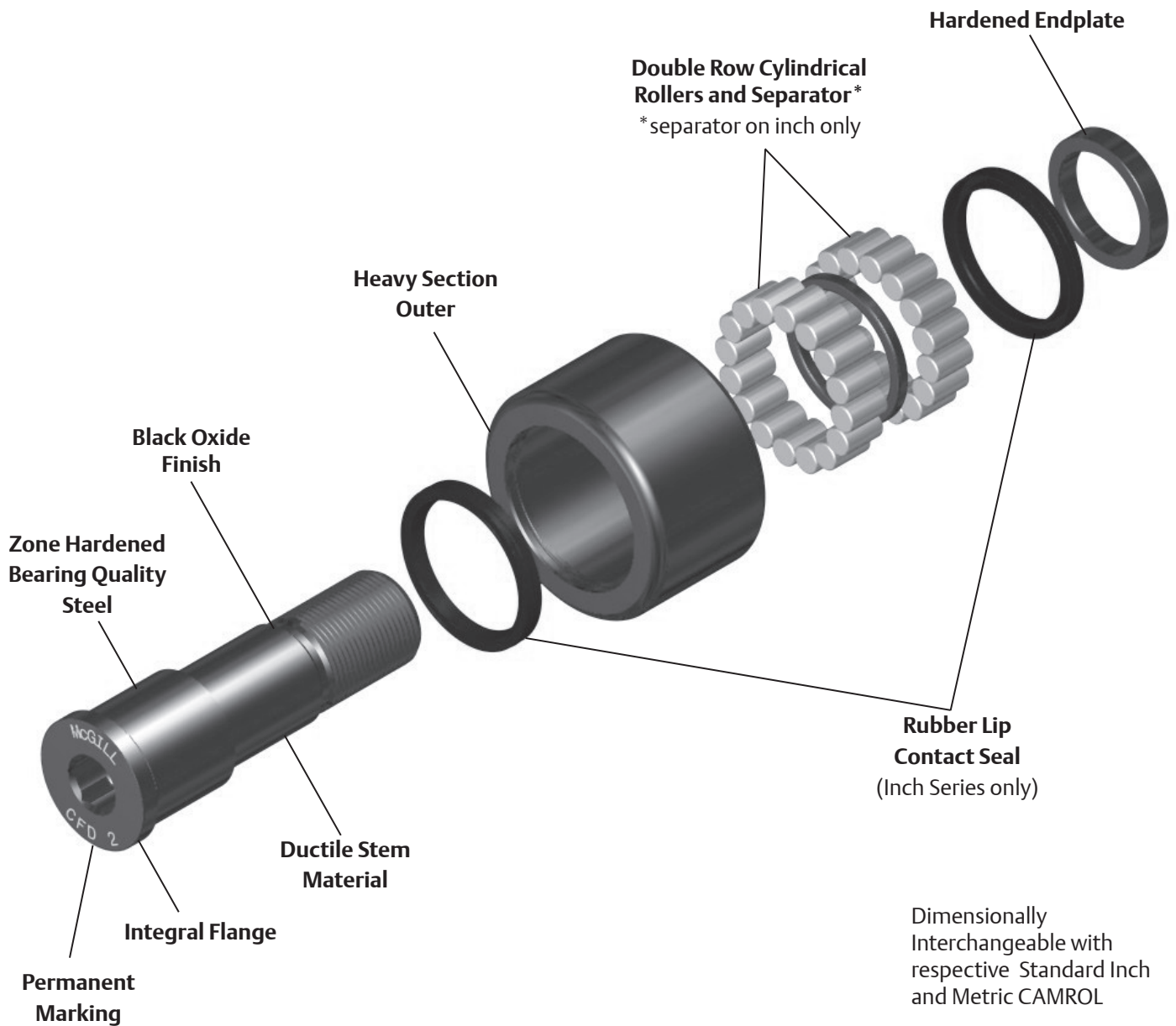
MCYR

| Part No. | | E | Ro | LF | LFT | TF | TFT | Limiting Speed | WT | |
|-----------|-----------------------|------------------------|--------------|-----------------------------------|-------------------------|------------------------------------|-------------------|----------------|-------------|----------------|
| W/O Seals | With LUBRI-DISC Seals | Min. Clamping Diameter | Outer Corner | Recommended Shaft Diameters | | | | | RPM | Bearing Weight |
| | | mm inch | mm inch | Loose Fit (for light loads) g6 | | Light Fit (for medium loads) h6 | | | | kg lb |
| | | | | Nom. | Tol. | Nom. | Tol. | | | |
| MCYR 20 | MCYR 20 S | 30 1.2 | 1.50 .059 | 19.993 .7871 | +0/-0.013 +0/-0.0005 | 20.000 .7874 | +0/-0 +0/-0.00 | 2,600 | .25 .55 | |
| MCYR 20 X | MCYR 20 SX | | | | | | | 3,900 | | |
| MCYRR 20 | MCYRR 20 S | 36 1.4 | 1.50 .059 | 24.993 .9840 | +0/-0.013 +0/-0.0005 | 25.000 .9842 | +0/-0 +0/-0.00 | 2,600 | .29 .64 | |
| MCYR 25 X | MCYR 25 SX | | | | | | | 3,900 | | |
| MCYRR 25 | MCYRR 25 S | 44 1.7 | 2.00 .079 | 29.993 1.1808 | +0/-0.013 +0/-0.0005 | 30.000 1.1811 | +0/-0 +0/-0.00 | 2,100 | .47 1.04 | |
| MCYR 30 X | MCYR 30 SX | | | | | | | 3,100 | | |
| MCYRR 30 | MCYRR 30 S | 52 2.0 | 2.00 .079 | 34.991 1.3776 | +0/-0.016 +0/-0.0006 | 35.000 1.3779 | +0/-0 +0/-0.00 | 2,100 | .64 1.41 | |
| MCYR 35 X | MCYR 35 SX | | | | | | | 3,100 | | |
| MCYRR 35 | MCYRR 35 S | 58 2.3 | 2.00 .079 | 39.991 1.5744 | +0/-0.016 +0/-0.0006 | 40.000 1.5748 | +0/-0 +0/-0.00 | 1,500 | .84 1.84 | |
| MCYR 40 X | MCYR 40 SX | | | | | | | 2,200 | | |
| MCYRR 40 | MCYRR 40 S | 63 2.5 | 2.00 .079 | 44.991 1.7713 | +0/-0.016 +0/-0.0006 | 45.000 1.7716 | +0/-0 +0/-0.00 | 1,500 | .90 1.99 | |
| MCYR 45 X | MCYR 45 SX | | | | | | | 2,200 | | |
| MCYRR 45 | MCYRR 45 S | 68 2.7 | 2.00 .079 | 45.991 1.8107 | +0/-0.016 +0/-0.0006 | 50.000 1.9685 | +0/-0 +0/-0.00 | 1,500 | .97 2.14 | |
| MCYR 50 X | MCYR 50 SX | | | | | | | 2,200 | | |
| MCYRR 50 | MCYRR 50 S | | | | | | | | | |
| MCYR 50 X | MCYR 50 SX | | | | | | | | | |
| MCYRR 50 | MCYRR 50 S | | | | | | | | | |
| MCYR 50 X | MCYR 50 SX | | | | | | | | | |

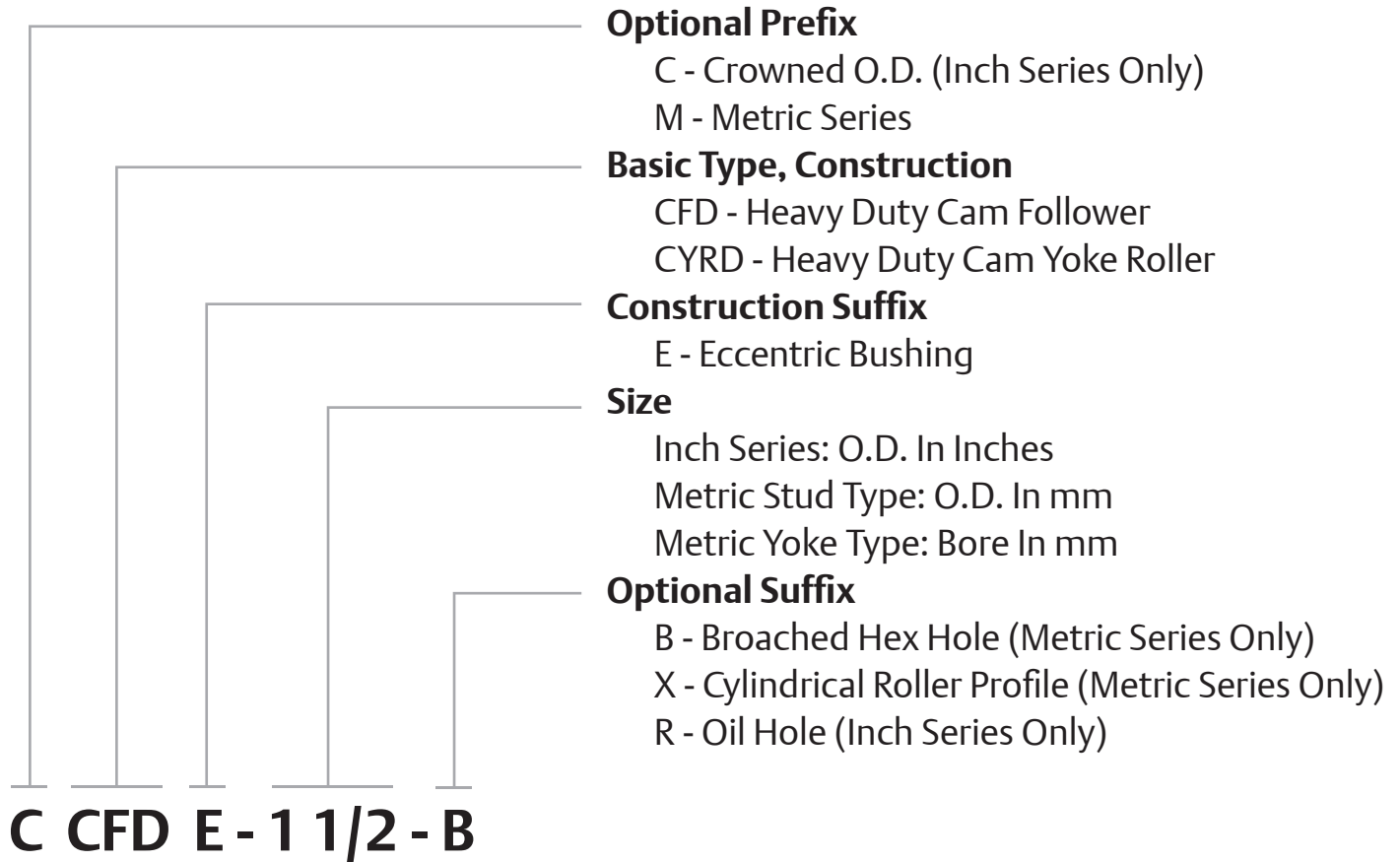
For a tight fit and heavy loads, us ISO tolerance J6.

Heavy-Duty Inch and Metric CAMROL®

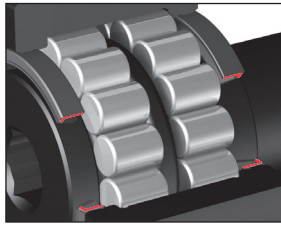
McGill Heavy-Duty CAMROL bearings are full complement cylindrical roller bearings featuring black oxide treated bearing steel, available in two basic mounting styles (stud or yoke) for use mechanical automation or linear motion applications. Our standard integral flange construction of stud version bearings helps maintain bearing integrity throughout the life. The inch series utilizes a rubber lip seal to provide a barrier for contamination and lubricant retention. Within the following section you can learn more about how these features and others can be applied to your application.



Cam Follower Inch and Metric Nomenclature

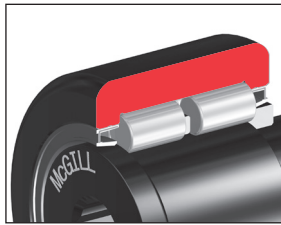


Features and Benefits



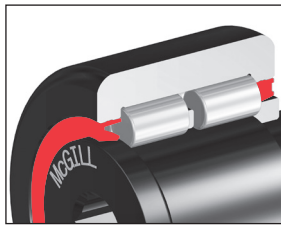
Double Row Full Complement Needle Rollers

The roller diameter to length ratio of Cylindrical rollers provides an end face and increases surface area to help support incidental thrust loads.



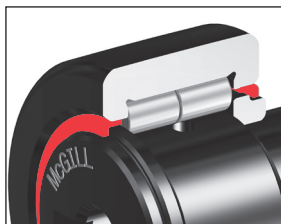
Heavy Section Outer

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



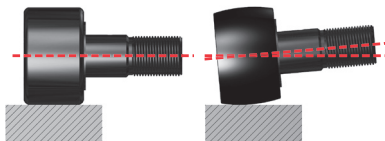
Rubber Lip Seals - Inch Series

Heavy-Duty CAMROL® Bearings have rubber lip seals to help keep contamination out and lubricant in. The seals are mounted inward to improve grease retention. Inch Only, removed as option- NS



Metallic Shields - Metric Series

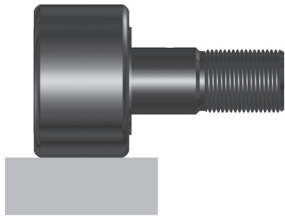
The metric series Heavy-Duty bearings metallic side shields providing a barriers to help retain grease and keep out contaminants. Metric Only, removed as option – NS



Crowned Outside Diameter (OD)

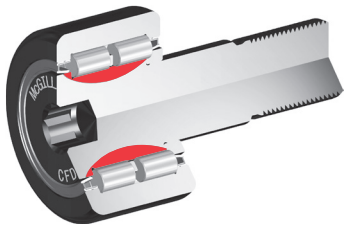
A crown on the OD of a cam follower bearing can increase bearing life versus a standard cylindrical cam follower. The crown achieves this performance by helping to distribute the stress on the outer ring and rolling elements resulting from misalignment due to mounting inaccuracy or stud deflection. The 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. Crowned OD is an option for Inch Series. Crowned OD is standard for Metric Series.

Features and Benefits continued



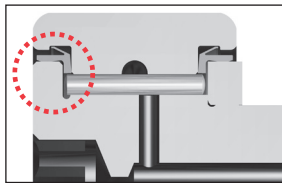
Cylindrical Outside Diameter (OD)

The cylindrical OD can improve performance in certain applications such as improved track capacity by maximizing the contact area with the track. Cylindrical OD is standard for Inch Series. Cylindrical OD is an option for Metric Series.



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.



Integral Flange

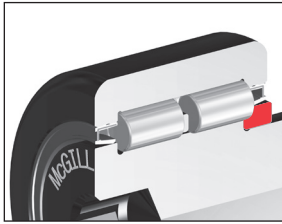
The integral flange helps maintain bearing integrity throughout the bearing life. Zone hardened to provide wear resistance from incidental contact with the outer or rollers, and provides a sealing surface for rubber lipped seal.



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.
*Standard on inch, option on Metric.

Features and Benefits continued

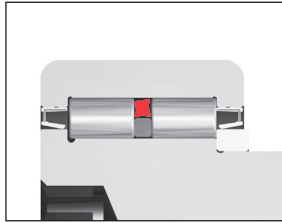


Hardened Endplate

Similar to the flange, the endplate must provide a contact surface for the seal and resist wear from incidental contact with the outer or rollers.

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 Reservoir

The inch series heavy-Duty bearings incorporate a spacer, resulting in an increased lubricant reservoir. Inch only



Black Oxide Finish

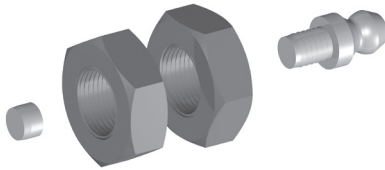
Bearings have a black oxide finish on all external surfaces.

Options



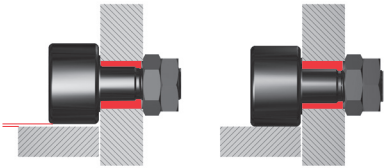
Permanent Marking

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



Installation Accessory Pack - Metric Series Stud Type

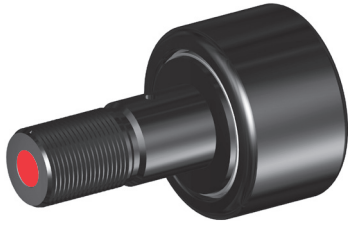
All McGill Metric Cam followers include (2) oil hole plug to help provide proper lubrication path to the rolling elements and prevent contamination from entering the bearing through a unused oil hole. Metric only, Inch as -OH option,



Eccentric Stud

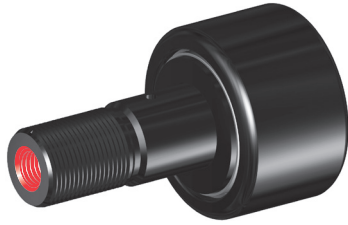
Eccentric stud option provides a means of adjusting the radial position of the bearing, which can improve the load sharing of inline bearing combinations. Cam follower load sharing helps reduce operation costs by reducing premature failures due to overloaded bearings, the need of precise mounting hole location tolerances and providing ability to realign bearing due to track wear.

Additional Options



BHT

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



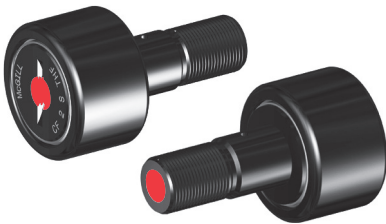
THT

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.

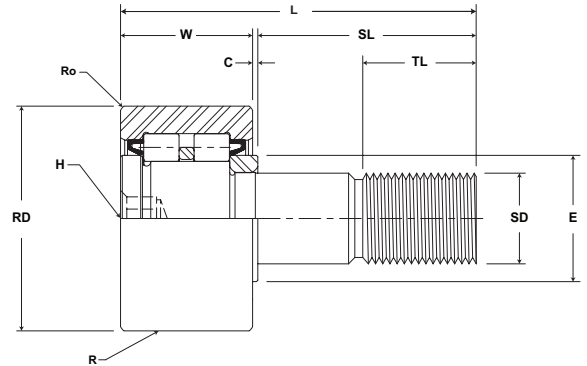
Custom Capabilities

- *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® Heavy Duty CAMROL Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Cylindrical Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



CFD

| Part No. | RD | | W | | SD | | SL | C | TL | L | R | Track Roller Dynamic Rating lb/N | Track Roller Static Rating lb/N |
|------------|-----------------|-----------|--------------|-----------|---------------|-----------|-------------|--------------------|-----------------------|----------------|-------------------|-------------------------------------|------------------------------------|
| | Roller Diameter | | Roller Width | | Stud Diameter | | Stud Length | Endplate Extension | Minimum Thread Length | Length Overall | Crown Prefix CCFD | | |
| | 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 | | |
| CFD 1 1/4 | 1.250 | +0/-0.001 | .750 | +0/-0.001 | .500 | +0/-0.001 | 1.25 | .03 | .63 | 2.03 | Cylindrical | 3,300 14,680 | 2,400 10,680 |
| CCFD 1 1/4 | 31.75 | +0/-0.03 | 19.05 | +0/-0.03 | 12.70 | +0/-0.03 | 31.8 | .8 | 15.9 | 51.6 | 14 356 | | |
| CFD 1 3/8 | 1.375 | +0/-0.001 | .750 | +0/-0.001 | .500 | +0/-0.001 | 1.25 | .03 | .63 | 2.03 | Cylindrical | 3,600 16,000 | 2,400 10,680 |
| CCFD 1 3/8 | 34.93 | +0/-0.03 | 19.05 | +0/-0.03 | 12.70 | +0/-0.03 | 31.8 | .8 | 15.9 | 51.6 | 14 356 | | |
| CFD 1 1/2 | 1.500 | +0/-0.001 | .875 | +0/-0.001 | .625 | +0/-0.001 | 1.50 | .03 | .75 | 2.41 | Cylindrical | 5,000 22,240 | 4,100 18,240 |
| CCFD 1 1/2 | 38.10 | +0/-0.03 | 22.23 | +0/-0.03 | 15.88 | +0/-0.03 | 38.1 | .8 | 19.1 | 61.1 | 20 508 | | |
| CFD 1 5/8 | 1.625 | +0/-0.001 | .875 | +0/-0.001 | .625 | +0/-0.001 | 1.50 | .03 | .75 | 2.41 | Cylindrical | 5,400 24,020 | 4,100 18,240 |
| CCFD 1 5/8 | 41.28 | +0/-0.03 | 22.23 | +0/-0.03 | 15.88 | +0/-0.03 | 38.1 | .8 | 19.1 | 61.1 | 20 508 | | |
| CFD 1 3/4 | 1.750 | +0/-0.001 | 1.000 | +0/-0.001 | .750 | +0/-0.001 | 1.75 | .03 | .88 | 2.78 | Cylindrical | 6,650 29,580 | 6,100 27,130 |
| CCFD 1 3/4 | 44.45 | +0/-0.03 | 25.40 | +0/-0.03 | 19.05 | +0/-0.03 | 44.5 | .8 | 22.2 | 70.6 | 20 508 | | |
| CFD 1 7/8 | 1.875 | +0/-0.001 | 1.000 | +0/-0.001 | .750 | +0/-0.001 | 1.75 | .03 | .88 | 2.78 | Cylindrical | 7,100 31,580 | 6,100 27,130 |
| CCFD 1 7/8 | 47.63 | +0/-0.03 | 25.40 | +0/-0.03 | 19.05 | +0/-0.03 | 44.5 | .8 | 22.2 | 70.6 | 20 508 | | |
| CFD 2 | 2.000 | +0/-0.001 | 1.250 | +0/-0.001 | .875 | +0/-0.001 | 2.00 | .03 | 1.00 | 3.28 | Cylindrical | 9,500 42,260 | 8,300 36,920 |
| CCFD 2 | 50.80 | +0/-0.03 | 31.75 | +0/-0.03 | 22.23 | +0/-0.03 | 50.8 | .8 | 25.4 | 83.3 | 24 610 | | |
| CFD 2 1/4 | 2.250 | +0/-0.001 | 1.250 | +0/-0.001 | .875 | +0/-0.001 | 2.00 | .03 | 1.00 | 3.28 | Cylindrical | 10,500 46,700 | 8,300 36,920 |
| CCFD 2 1/4 | 57.15 | +0/-0.03 | 31.75 | +0/-0.03 | 22.23 | +0/-0.03 | 50.8 | .8 | 25.4 | 83.3 | 24 610 | | |

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

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.

Heavy Duty CAMROL Bearings **McGILL**



CFD

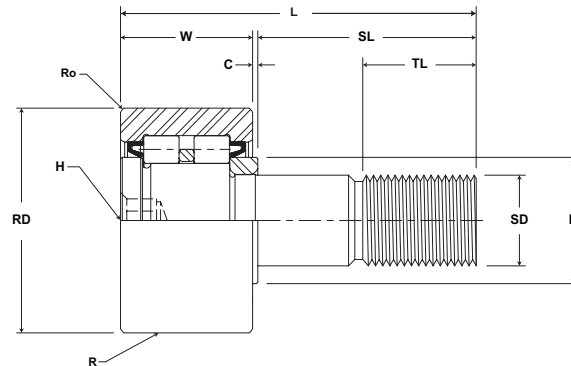
| Part No. | H | | E | | Ro | | Housing Bore Diameter | Thread Type | Clamping Torque | | WT | | | |
|------------|----------|------|------------------------|--|--------|------------------------------------|-----------------------|-------------|-----------------|-----|----------------|-----|-------|--|
| | Hex Hole | | Min. Clamping Diameter | | Corner | | | | Clamping Torque | | Bearing Weight | | | |
| | inch mm | | (Ref) | | (Ref) | | | | inch mm | | in-lb Nm | | lb kg | |
| | Size | | | | | | | | Nom. Tol. | | | | | |
| CFD 1 1/4 | .25 | .98 | .03 | | .5003 | | 12.708 | 1/2-20 | 350 | 40 | .29 | .13 | | |
| CCFD 1 1/4 | 6.4 | 25.0 | .8 | | | + .0002/- .0003 + .0005/- .0008 | | | | | | | | |
| CFD 1 3/8 | .25 | .98 | .05 | | .5003 | | 12.708 | 1/2-20 | 350 | 40 | .35 | .16 | | |
| CCFD 1 3/8 | 6.4 | 25.0 | 1.2 | | | + .0002/- .0003 + .0005/- .0012 | | | | | | | | |
| CFD 1 1/2 | .312 | 1.09 | .06 | | .6253 | | 15.883 | 5/8-18 | 650 | 73 | .50 | .22 | | |
| CCFD 1 1/2 | 7.9 | 27.8 | 1.6 | | | + .0002/- .0003 + .0005/- .0016 | | | | | | | | |
| CFD 1 5/8 | .312 | 1.09 | .06 | | .6253 | | 15.883 | 5/8-18 | 650 | 73 | .58 | .26 | | |
| CCFD 1 5/8 | 7.9 | 27.8 | 1.6 | | | + .0002/- .0003 + .0005/- .0020 | | | | | | | | |
| CFD 1 3/4 | .312 | 1.25 | .06 | | .7503 | | 19.058 | 3/4-16 | 1,250 | 141 | .81 | .37 | | |
| CCFD 1 3/4 | 7.9 | 31.8 | 1.6 | | | + .0002/- .0003 + .0005/- .0024 | | | | | | | | |
| CFD 1 7/8 | .312 | 1.25 | .06 | | .7503 | | 19.058 | 3/4-16 | 1,250 | 141 | .91 | .41 | | |
| CCFD 1 7/8 | 7.9 | 31.8 | 1.6 | | | + .0002/- .0003 + .0005/- .0028 | | | | | | | | |
| CFD 2 | .437 | 1.41 | .09 | | .8753 | | 22.233 | 7/8-14 | 1,500 | 170 | 1.29 | .59 | | |
| CCFD 2 | 11.1 | 35.7 | 2.4 | | | + .0002/- .0003 + .0005/- .0032 | | | | | | | | |
| CFD 2 1/4 | .437 | 1.41 | .09 | | .8753 | | 22.233 | 7/8-14 | 1,500 | 170 | 1.59 | .72 | | |
| CCFD 2 1/4 | 11.1 | 35.7 | 2.4 | | | + .0002/- .0003 + .0005/- .0036 | | | | | | | | |

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

MCGILL® Heavy Duty CAMROL Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Cylindrical Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** LUBRI-DISC®
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole



CFD

| Part No. | RD | | W | | SD | | SL | C | TL | L | R | Track Roller Dynamic Rating lb/N | Track Roller Static Rating lb/N |
|------------|-----------------|-----------|--------------|-----------|---------------|-----------|-------------|--------------------|-----------------------|----------------|-------------------|-------------------------------------|------------------------------------|
| | Roller Diameter | | Roller Width | | Stud Diameter | | Stud Length | Endplate Extension | Minimum Thread Length | Length Overall | Crown Prefix CCFD | | |
| | inch mm | inch mm | inch mm | inch mm | inch mm | inch mm | inch mm | inch mm | inch mm | inch mm | | | |
| With Seals | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | Radius | | |
| CFD 2 1/2 | 2.500 | +0/-0.001 | 1.500 | +0/-0.001 | 1.000 | +0/-0.001 | 2.25 | .03 | 1.125 | 3.78 | Cylindrical | 14,000 62,270 | 10,400 46,260 |
| CCFD 2 1/2 | 63.50 | +0/-0.03 | 38.10 | +0/-0.03 | 25.40 | +0/-0.03 | 57.2 | .8 | 28.6 | 96.0 | 30 762 | | |
| CFD 2 3/4 | 2.750 | +0/-0.001 | 1.500 | +0/-0.001 | 1.000 | +0/-0.001 | 2.25 | .03 | 1.125 | 3.78 | Cylindrical | 15,000 66,720 | 10,400 46,260 |
| CCFD 2 3/4 | 69.85 | +0/-0.03 | 38.10 | +0/-0.03 | 25.40 | +0/-0.03 | 57.2 | .8 | 28.6 | 96.0 | 30 762 | | |
| CFD 3 | 3.000 | +0/-0.001 | 1.750 | +0/-0.001 | 1.250 | +0/-0.001 | 2.50 | .03 | 1.25 | 4.28 | Cylindrical | 18,300 81,400 | 18,100 80,510 |
| CCFD 3 | 76.20 | +0/-0.03 | 44.45 | +0/-0.03 | 31.75 | +0/-0.03 | 63.5 | .8 | 31.7 | 108.7 | 30 762 | | |
| CFD 3 1/4 | 3.250 | +0/-0.001 | 1.750 | +0/-0.001 | 1.250 | +0/-0.001 | 2.50 | .03 | 1.25 | 4.28 | Cylindrical | 20,300 90,290 | 18,100 80,510 |
| CCFD 3 1/4 | 82.55 | +0/-0.03 | 44.45 | +0/-0.03 | 31.75 | +0/-0.03 | 63.5 | .8 | 31.7 | 108.7 | 30 762 | | |
| CFD 3 1/2 | 3.500 | +0/-0.001 | 2.000 | +0/-0.001 | 1.375 | +0/-0.001 | 2.75 | .03 | 1.375 | 4.78 | Cylindrical | 23,700 105,420 | 21,500 95,630 |
| CCFD 3 1/2 | 88.90 | +0/-0.03 | 50.80 | +0/-0.03 | 34.93 | +0/-0.03 | 69.9 | .8 | 34.9 | 121.4 | 30 762 | | |
| CFD 4 | 4.000 | +0/-0.001 | 2.250 | +0/-0.001 | 1.500 | +0/-0.001 | 3.50 | .03 | 1.50 | 5.78 | Cylindrical | 32,500 144,560 | 22,800 101,410 |
| CCFD 4 | 101.60 | +0/-0.03 | 57.15 | +0/-0.03 | 38.10 | +0/-0.03 | 88.9 | .8 | 38.1 | 146.8 | 30 762 | | |
| CFD 5 | 5.000 | +0/-0.001 | 2.750 | +0/-0.001 | 2.000 | +0/-0.001 | 5.06 | .06 | 2.00 | 7.88 | Cylindrical | 50,500 224,620 | 50,800 225,960 |
| CCFD 5 | 127.00 | +0/-0.03 | 69.85 | +0/-0.03 | 50.80 | +0/-0.03 | 128.6 | 1.6 | 50.4 | 200.0 | 48 1,219 | | |
| CFD 6 | 6.000 | +0/-0.001 | 3.250 | +0/-0.001 | 2.500 | +0/-0.001 | 6.00 | .06 | 2.50 | 9.31 | Cylindrical | 71,500 318,030 | 86,100 382,970 |
| CCFD 6 | 152.40 | +0/-0.03 | 82.55 | +0/-0.03 | 63.50 | +0/-0.03 | 152.4 | 1.6 | 63.5 | 236.5 | 30 762 | | |

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.

Heavy Duty CAMROL Bearings **McGILL**



CFD

| Part No. | H | | E | | Ro | | Housing Bore Diameter | Thread Type | Clamping Torque | | WT | | | |
|------------|--------------|---------------|------------------------|--|------------------|----------------------------------|-----------------------|--------------|-----------------|--|----------------|--|-------|--|
| | Hex Hole | | Min. Clamping Diameter | | Corner | | | | Clamping Torque | | Bearing Weight | | | |
| | inch mm | | (Ref) | | (Ref) | | | | inch mm | | in-lb Nm | | lb kg | |
| | Size | | (Ref) | | (Ref) | | | | Nom. Tol. | | | | | |
| CFD 2 1/2 | .50 12.7 | 1.69 42.9 | .09 2.4 | | 1.0003 25.408 | +0.002/-0.003 +0.0005/-0.0040 | 1-14 | 2,250 254 | 2.38 1.08 | | | | | |
| CCFD 2 1/2 | | | N/A | | | | | | | | | | | |
| CFD 2 3/4 | .50 12.7 | 1.69 42.9 | .09 2.4 | | 1.0003 25.408 | +0.002/-0.003 +0.0005/-0.0044 | 1-14 | 2,250 254 | 2.93 1.33 | | | | | |
| CCFD 2 3/4 | | | N/A | | | | | | | | | | | |
| CFD 3 | .75 19.1 | 2.13 54.0 | .13 3.2 | | 1.2503 31.758 | +0.002/-0.003 +0.0005/-0.0048 | 1 1/4-12 | 3,450 390 | 4.20 1.91 | | | | | |
| CCFD 3 | | | N/A | | | | | | | | | | | |
| CFD 3 1/4 | .75 19.1 | 2.13 54.0 | .13 3.2 | | 1.2503 31.758 | +0.002/-0.003 +0.0005/-0.0052 | 1 1/4-12 | 3,450 390 | 4.52 2.05 | | | | | |
| CCFD 3 1/4 | | | N/A | | | | | | | | | | | |
| CFD 3 1/2 | .75 19.1 | 2.44 61.9 | .13 3.2 | | 1.3753 34.933 | +0.002/-0.003 +0.0005/-0.0056 | 1 3/8-12 | 4,200 475 | 5.99 2.72 | | | | | |
| CCFD 3 1/2 | | | N/A | | | | | | | | | | | |
| CFD 4 | .75 19.1 | 2.80 71.0 | .13 3.2 | | 1.5003 38.108 | +0.002/-0.003 +0.0005/-0.0060 | 1 1/2-12 | 5,000 565 | 8.97 4.07 | | | | | |
| CCFD 4 | | | N/A | | | | | | | | | | | |
| CFD 5 | .875 22.2 | 3.56 90.5 | .13 3.2 | | 2.0003 50.808 | +0.002/-0.003 +0.0005/-0.0064 | 2-12 | 5,000 565 | 18.37 8.33 | | | | | |
| CCFD 5 | | | N/A | | | | | | | | | | | |
| CFD 6 | 1.00 25.4 | 4.47 113.5 | .13 3.2 | | 2.5003 63.508 | +0.002/-0.003 +0.0005/-0.0068 | 2 1/2-12 | 5,000 565 | 31.99 14.51 | | | | | |
| CCFD 6 | | | N/A | | | | | | | | | | | |

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

McGILL® Heavy Duty CAMROL Bearings



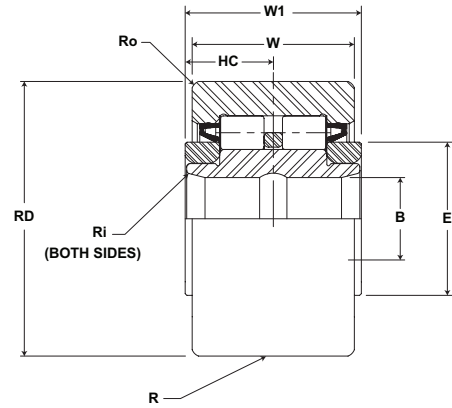
Basic Construction Type: Yoke Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement Cylindrical Roller

Bearing Material: Bearing Quality Steel

Seal Type: Rubber Lip Seal

Lubrication: Lithium Soap Grease NLGI #2



CYRD

| Part No. | RD | | W | | B | | W1 | | R | Track Roller Dynamic Rating | Track Roller Static Rating |
|-------------|-----------------|-----------|--------------|-----------|---------------|-----------------|---------------|---------------|--------------------|-----------------------------|----------------------------|
| | Roller Diameter | | Roller Width | | Bore Diameter | | Overall Width | | Crown | | |
| | inch | mm | inch | mm | inch | mm | inch | mm | Prefix CCYRD-XX | | |
| With Seals | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | Radius | lb/N | lb/N |
| CYRD 1 1/4 | 1.250 | +0/-0.001 | .750 | +0/-0.001 | .375 | +0.0002/-0.0004 | .8125 | +0.0005/-0.01 | Cylindrical | 3,300 14,680 | 2,400 10,680 |
| CCYRD 1 1/4 | 31.75 | +0/-0.03 | 9.05 | +0/-0.03 | 9.53 | +0.0005/-0.010 | 20.6 | +0.13/-0.25 | 14 356 | | |
| CYRD 1 3/8 | 1.375 | +0/-0.001 | .750 | +0/-0.001 | .375 | +0.0002/-0.0004 | .8125 | +0.0005/-0.01 | Cylindrical | 3,600 16,000 | 2,400 10,680 |
| CCYRD 1 3/8 | 34.93 | +0/-0.03 | 9.05 | +0/-0.05 | 9.53 | +0.0005/-0.010 | 20.6 | +0.13/-0.25 | 14 356 | | |
| CYRD 1 1/2 | 1.500 | +0/-0.001 | .875 | +0/-0.001 | .438 | +0.0002/-0.0004 | .9375 | +0.0005/-0.01 | Cylindrical | 5,000 22,240 | 4,100 18,240 |
| CCYRD 1 1/2 | 38.10 | +0/-0.03 | 2.23 | +0/-0.07 | 1.11 | +0.0005/-0.010 | 23.8 | +0.13/-0.25 | 20 508 | | |
| CYRD 1 5/8 | 1.625 | +0/-0.001 | .875 | +0/-0.001 | .438 | +0.0002/-0.0004 | .9375 | +0.0005/-0.01 | Cylindrical | 5,400 24,020 | 4,100 18,240 |
| CCYRD 1 5/8 | 41.28 | +0/-0.03 | 2.23 | +0/-0.09 | 1.11 | +0.0005/-0.010 | 23.8 | +0.13/-0.25 | 20 508 | | |
| CYRD 1 3/4 | 1.750 | +0/-0.001 | 1.000 | +0/-0.001 | .500 | +0.0002/-0.0004 | 1.0625 | +0.0005/-0.01 | Cylindrical | 6,650 29,580 | 6,100 27,130 |
| CCYRD 1 3/4 | 44.45 | +0/-0.03 | 25.40 | +0/-0.11 | 2.70 | +0.0005/-0.010 | 27.0 | +0.13/-0.25 | 20 508 | | |
| CYRD 1 7/8 | 1.875 | +0/-0.001 | 1.000 | +0/-0.001 | .500 | +0.0002/-0.0004 | 1.0625 | +0.0005/-0.01 | Cylindrical | 7,100 31,580 | 6,100 27,130 |
| CCYRD 1 7/8 | 47.63 | +0/-0.03 | 25.40 | +0/-0.13 | 2.70 | +0.0005/-0.010 | 27.0 | +0.13/-0.25 | 20 508 | | |
| CYRD 2 | 2.000 | +0/-0.001 | 1.250 | +0/-0.001 | .625 | +0.0002/-0.0004 | 1.3125 | +0.0005/-0.01 | Cylindrical | 9,500 42,260 | 8,300 36,920 |
| CCYRD 2 | 50.80 | +0/-0.03 | 31.75 | +0/-0.15 | 5.88 | +0.0005/-0.010 | 33.3 | +0.13/-0.25 | 24 610 | | |
| CYRD 2 1/4 | 2.250 | +0/-0.001 | 1.250 | +0/-0.001 | .625 | +0.0002/-0.0004 | 1.3125 | +0.0005/-0.01 | Cylindrical | 10,500 46,700 | 8,300 36,920 |
| CCYRD 2 1/4 | 57.15 | +0/-0.03 | 31.75 | +0/-0.17 | 5.88 | +0.0005/-0.010 | 33.3 | +0.13/-0.25 | 24 610 | | |

Metric dimensions for reference only.

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Heavy Duty CAMROL Bearings **McGILL**



CYRD

| Part No. | HC | E | Ri | Ro | Recommended Shaft Diameters | | | | | | WT |
|-------------|-------------|------------------------|---------------------|---------------------|-----------------------------|-----------------|----------------|-----------------|----------------|-----------------|----------------|
| | Hole Center | Min. Clamping Diameter | Outer Corner Radius | Inner Corner Radius | Push Fit | | Drive Fit | | Press Fit | | Bearing Weight |
| | inch mm | inch mm | inch mm | inch mm | inch mm | | inch mm | | inch mm | | lb kg |
| | (Ref) | (Ref) | (Ref) | (Ref) | Nom | Tol | Nom | Tol | Nom | Tol | |
| CYRD 1 1/4 | .31 7.9 | .98 5.0 | .03 0.8 | .03 0.8 | .3745 9.512 | ±.0002 ±.005 | .3751 9.53 | ±.0002 ±.005 | .3753 9.53 | ±.0002 ±.005 | .21 .09 |
| CCYRD 1 1/4 | | | | | | | | | | | |
| CYRD 1 3/8 | .31 7.9 | .98 5.0 | .03 0.8 | .05 1.2 | .3745 9.512 | ±.0002 ±.005 | .3751 9.53 | ±.0002 ±.005 | .3753 9.53 | ±.0002 ±.005 | .26 .12 |
| CCYRD 1 3/8 | | | | | | | | | | | |
| CYRD 1 1/2 | .38 9.5 | 1.09 27.8 | .04 1.0 | .06 1.6 | .4370 1.100 | ±.0002 ±.005 | .4376 11.12 | ±.0002 ±.005 | .4378 11.12 | ±.0002 ±.005 | .35 .16 |
| CCYRD 1 1/2 | | | | | | | | | | | |
| CYRD 1 5/8 | .38 9.5 | 1.09 27.8 | .04 1.0 | .06 1.6 | .4370 1.100 | ±.0002 ±.005 | .4376 11.12 | ±.0002 ±.005 | .4378 11.12 | ±.0002 ±.005 | .43 .19 |
| CCYRD 1 5/8 | | | | | | | | | | | |
| CYRD 1 3/4 | .44 1.1 | 1.25 31.8 | .05 1.3 | .06 1.6 | .4995 2.687 | ±.0002 ±.005 | .5001 12.70 | ±.0002 ±.005 | .5005 12.71 | ±.0002 ±.005 | .57 .26 |
| CCYRD 1 3/4 | | | | | | | | | | | |
| CYRD 1 7/8 | .44 1.1 | 1.25 31.8 | .05 1.3 | .06 1.6 | .4995 2.687 | ±.0002 ±.005 | .5001 12.70 | ±.0002 ±.005 | .5005 12.71 | ±.0002 ±.005 | .66 .29 |
| CCYRD 1 7/8 | | | | | | | | | | | |
| CYRD 2 | .50 2.7 | 1.41 35.7 | .06 1.5 | .09 2.4 | .6245 5.862 | ±.0002 ±.005 | .6251 15.88 | ±.0002 ±.005 | .6255 15.89 | ±.0002 ±.005 | .88 .39 |
| CCYRD 2 | | | | | | | | | | | |
| CYRD 2 1/4 | .50 2.7 | 1.41 35.7 | .06 1.5 | .09 2.4 | .6245 5.862 | ±.0002 ±.005 | .6251 15.88 | ±.0002 ±.005 | .6255 15.89 | ±.0002 ±.005 | 1.18 .54 |
| CCYRD 2 1/4 | | | | | | | | | | | |

McGILL® Heavy Duty CAMROL Bearings



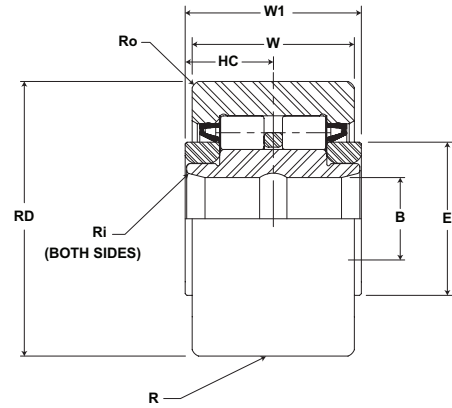
Basic Construction Type: Yoke Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement Cylindrical Roller

Bearing Material: Bearing Quality Steel

Seal Type: Rubber Lip Seal

Lubrication: Lithium Soap Grease NLGI #2



CYRD

| Part No. | RD | | W | | B | | W1 | | R | Track Roller Dynamic Rating | Track Roller Static Rating |
|-------------|-----------------|-----------|--------------|-----------|---------------|-----------------|---------------|--------------|-----------------|-----------------------------|----------------------------|
| | Roller Diameter | | Roller Width | | Bore Diameter | | Overall Width | | Crown | | |
| | inch mm | inch mm | inch mm | inch mm | inch mm | inch mm | inch mm | inch mm | Prefix CCYRD-XX | lb/N | lb/N |
| CYRD 2 1/2 | 2.500 | +0/-0.001 | 1.500 | +0/-0.001 | .750 | +0.002/-0.0004 | 1.5625 | +0.005/-0.01 | Cylindrical | 14,000 62,270 | 10,400 46,260 |
| CCYRD 2 1/2 | 63.50 | +0/-0.03 | 38.10 | +0/-0.19 | 9.05 | +0.0005/-0.0010 | 39.7 | +0.13/-0.25 | 30 762 | | |
| CYRD 2 3/4 | 2.750 | +0/-0.001 | 1.500 | +0/-0.001 | .750 | +0.002/-0.0004 | 1.5625 | +0.005/-0.01 | Cylindrical | 15,000 66,720 | 10,400 46,260 |
| CCYRD 2 3/4 | 69.85 | +0/-0.03 | 38.10 | +0/-0.21 | 9.05 | +0.0005/-0.0010 | 39.7 | +0.13/-0.25 | 30 762 | | |
| CYRD 3 | 3.000 | +0/-0.001 | 1.750 | +0/-0.001 | 1.000 | +0.001/-0.0005 | 1.8125 | +0.005/-0.01 | Cylindrical | 18,300 81,400 | 18,100 80,510 |
| CCYRD 3 | 76.20 | +0/-0.03 | 44.45 | +0/-0.23 | 25.40 | +0.0003/-0.0013 | 46.0 | +0.13/-0.25 | 30 762 | | |
| CYRD 3 1/4 | 3.250 | +0/-0.001 | 1.750 | +0/-0.001 | 1.000 | +0.001/-0.0005 | 1.8125 | +0.005/-0.01 | Cylindrical | 20,300 90,290 | 18,100 80,510 |
| CCYRD 3 1/4 | 82.55 | +0/-0.03 | 44.45 | +0/-0.25 | 25.40 | +0.0003/-0.0013 | 46.0 | +0.13/-0.25 | 30 762 | | |
| CYRD 3 1/2 | 3.500 | +0/-0.001 | 2.000 | +0/-0.001 | 1.125 | +0.001/-0.0005 | 2.0625 | +0.005/-0.01 | Cylindrical | 23,700 105,420 | 21,500 95,630 |
| CCYRD 3 1/2 | 88.90 | +0/-0.03 | 50.80 | +0/-0.27 | 28.58 | +0.0003/-0.0013 | 52.4 | +0.13/-0.25 | 30 762 | | |
| CYRD 4 | 4.000 | +0/-0.001 | 2.250 | +0/-0.001 | 1.250 | +0.001/-0.0005 | 2.3125 | +0.005/-0.01 | Cylindrical | 32,500 144,560 | 22,800 101,410 |
| CCYRD 4 | 101.60 | +0/-0.03 | 57.15 | +0/-0.29 | 31.75 | +0.0003/-0.0013 | 58.7 | +0.13/-0.25 | 30 762 | | |
| CYRD 5 | 5.000 | +0/-0.001 | 2.750 | +0/-0.001 | 1.750 | +0.001/-0.0005 | 2.875 | +0.005/-0.01 | Cylindrical | 50,500 224,620 | 50,800 225,960 |
| CCYRD 5 | 127.00 | +0/-0.03 | 69.85 | +0/-0.31 | 44.45 | +0.0003/-0.0013 | 73.0 | +0.13/-0.25 | 48 1,219 | | |
| CYRD 6 | 6.000 | +0/-0.001 | 3.250 | +0/-0.001 | 2.250 | +0.001/-0.0005 | 3.375 | +0.005/-0.01 | Cylindrical | 71,500 318,030 | 86,100 382,970 |
| CCYRD 6 | 152.40 | +0/-0.03 | 82.55 | +0/-0.33 | 57.15 | +0.0003/-0.0013 | 85.7 | +0.13/-0.25 | 56 1,422 | | |

Metric dimensions for reference only.

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Heavy Duty CAMROL Bearings **McGILL**



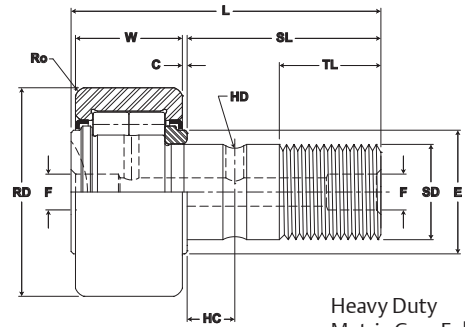
CYRD

| Part No. | HC | E | Ri | Ro | Recommended Shaft Diameters | | | | | | WT |
|-------------|--------------|------------------------|---------------------|---------------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|
| | Hole Center | Min. Clamping Diameter | Outer Corner Radius | Inner Corner Radius | Push Fit | | Drive Fit | | Press Fit | | Bearing Weight |
| | inch | inch | inch | inch | inch | | inch | | inch | | lb |
| | (Ref) | (Ref) | (Ref) | (Ref) | Nom | Tol | Nom | Tol | Nom | Tol | kg |
| CYRD 2 1/2 | .56 4.3 | 1.69 42.9 | .07 1.8 | .09 2.4 | .7495 9.037 | ±.0002 ±.005 | .7501 19.05 | ±.0002 ±.005 | .7505 19.06 | ±.0002 ±.005 | 1.74 .79 |
| CCYRD 2 1/2 | | | | | | | | | | | |
| CYRD 2 3/4 | .56 4.3 | 1.69 42.9 | .07 1.8 | .09 2.4 | .7495 9.037 | ±.0002 ±.005 | .7501 19.05 | ±.0002 ±.005 | .7505 19.06 | ±.0002 ±.005 | 2.17 .98 |
| CCYRD 2 3/4 | | | | | | | | | | | |
| CYRD 3 | .63 5.9 | 2.13 54.0 | .08 2.0 | .13 3.2 | .9994 5.385 | ±.0002 ±.005 | 1.002 25.5 | ±.0002 ±.005 | 1.006 25.55 | ±.0002 ±.005 | 3.08 1.39 |
| CCYRD 3 | | | | | | | | | | | |
| CYRD 3 1/4 | .63 5.9 | 2.13 54.0 | .08 2.0 | .13 3.2 | .9994 5.385 | ±.0002 ±.005 | 1.002 25.5 | ±.0002 ±.005 | 1.006 25.55 | ±.0002 ±.005 | 3.62 1.64 |
| CCYRD 3 1/4 | | | | | | | | | | | |
| CYRD 3 1/2 | .69 7.5 | 2.44 61.9 | .09 2.3 | .13 3.2 | 1.1244 28.560 | ±.0002 ±.005 | 1.1252 28.58 | ±.0002 ±.005 | 1.1256 28.59 | ±.0002 ±.005 | 4.41 2.00 |
| CCYRD 3 1/2 | | | | | | | | | | | |
| CYRD 4 | .75 9.1 | 2.80 71.0 | .10 2.5 | .13 3.2 | 1.2494 31.735 | ±.0002 ±.005 | 1.2502 31.76 | ±.0002 ±.005 | 1.2506 31.77 | ±.0002 ±.005 | 6.57 2.98 |
| CCYRD 4 | | | | | | | | | | | |
| CYRD 5 | .88 2.2 | 3.56 90.5 | .11 2.8 | .13 3.2 | 1.7494 44.435 | ±.0002 ±.005 | 1.7502 44.46 | ±.0002 ±.005 | 1.7506 44.47 | ±.0002 ±.005 | 12.33 5.59 |
| CCYRD 5 | | | | | | | | | | | |
| CYRD 6 | 1.00 25.4 | 4.47 113.5 | .12 3.0 | .13 3.2 | 2.2494 57.135 | ±.0002 ±.005 | 2.2502 57.16 | ±.0002 ±.005 | 2.2506 57.17 | ±.0002 ±.005 | 20.47 9.29 |
| CCYRD 6 | | | | | | | | | | | |

MCGILL® Heavy Duty CAMROL Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Cylindrical Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Metallic Shield
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric
- Mounting Feature:** Slot / Hex Hole



Heavy Duty Metric Cam Follower

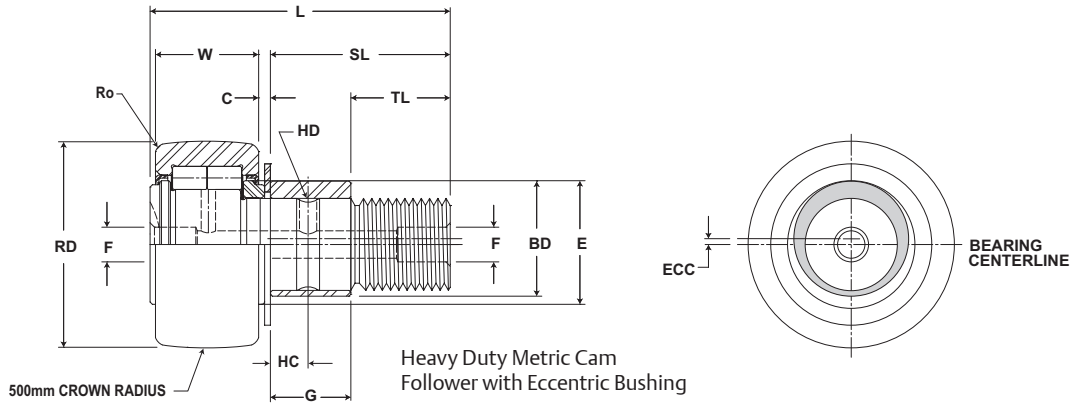
MCFD, MCFDE

| Part No. | RD | | W | | SD | | SL | C | TL | L | R | ECC | G | BD | Track Roller Dynamic Rating | Track Roller Static Rating | | | | | | |
|--------------|------------------|-------------------------|----------------|---------------------|-----------------|-------------------------|----------------|--------------------|-----------------------|----------------|------------------|------------------------|-------------------------|------------|-----------------------------|----------------------------|------------|-----------|-------------|------------|------------|-----------|
| With Shields | Roller Diameter | | Roller Width | | Stud Diameter | | Stud Length | Endplate Extension | Minimum Thread Length | Length Overall | Cylindrical | Eccentric | | | | | | | | | | |
| | | | | | | | | | | | Suffix MCFD-xx-X | Base Modifier MCFDE-xx | | | | | | | | | | |
| | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | mm inch | mm inch | +05/-15 (+.002 / -.006) | See Table | N/lb | N/lb | | | | | | |
| MCFD 35 | 35.000 1.3780 | +0/-0.050 +0/-0.002 | 18.00 .709 | +0/.12 +0/-0.005 | 16.000 .6299 | +0/-0.018 +0/-0.0007 | 32.50 1.280 | .80 .031 | 17.00 .669 | 52.00 2.047 | 500 | N/A | N/A | N/A | 16,000 3,597 | 18,000 4,047 | | | | | | |
| MCFDE 35 | | | | | | | | | | | | | 20 | 0.5 .02 | | | 14 0.55 | 20 .79 | | | | |
| MCFD 35 X | | +0/-0.011 +0/-0.0004 | | | | | | | | | | | | | | | | | Cylindrical | N/A | N/A | N/A |
| MCFDE 35 X | | | | | | | | | | | | | | | | | | | | 0.5 .02 | 14 0.55 | 20 .79 |
| MCFD 40 | 40.000 1.5748 | +0/-0.050 +0/-0.002 | 20.00 .787 | +0/.12 +0/-0.009 | 18.000 .7087 | +0/-0.018 +0/-0.0007 | 36.50 1.437 | .80 .031 | 19.00 .748 | 58.00 2.283 | 500 | N/A | N/A | N/A | 18,000 4,047 | 22,000 4,946 | | | | | | |
| MCFDE 40 | | | | | | | | | | | | | 20 | 1 .04 | | | 16 0.63 | 22 .87 | | | | |
| MCFD 40 X | | +0/-0.011 +0/-0.0004 | | | | | | | | | | | | | | | | | Cylindrical | N/A | N/A | N/A |
| MCFDE 40 X | | | | | | | | | | | | | | | | | | | | 1 .04 | 16 0.63 | 22 .87 |
| MCFD 47 | 47.000 1.8504 | +0/-0.050 +0/-0.002 | 24.00 .945 | +0/.12 +0/-0.013 | 20.000 .7874 | +0/-0.021 +0/-0.0008 | 40.50 1.594 | .80 .031 | 21.00 .827 | 66.00 2.598 | 500 | N/A | N/A | N/A | 27,000 6,070 | 32,000 7,194 | | | | | | |
| MCFDE 47 | | | | | | | | | | | | | 20 | 1 .04 | | | 18 0.71 | 24 .94 | | | | |
| MCFD 47 X | | +0/-0.011 +0/-0.0004 | | | | | | | | | | | | | | | | | Cylindrical | N/A | N/A | N/A |
| MCFDE 47 X | | | | | | | | | | | | | | | | | | | | 1 .04 | 18 0.71 | 24 .94 |
| MCFD 52 | 52.000 2.0472 | +0/-0.050 +0/-0.002 | 24.00 .945 | +0/.12 +0/-0.017 | 20.000 .7874 | +0/-0.021 +0/-0.0008 | 40.50 1.594 | .80 .031 | 21.00 .827 | 66.00 2.598 | 500 | N/A | N/A | N/A | 30,000 6,745 | 35,000 7,869 | | | | | | |
| MCFDE 52 | | | | | | | | | | | | | 20 | 1 .04 | | | 18 0.71 | 24 .94 | | | | |
| MCFD 52 X | | +0/-0.013 +0/-0.0005 | | | | | | | | | | | | | | | | | Cylindrical | N/A | N/A | N/A |
| MCFDE 52 X | | | | | | | | | | | | | | | | | | | | 1 .04 | 18 0.71 | 24 .94 |
| MCFD 62 | 62.000 2.4409 | +0/-0.050 +0/-0.002 | 29.00 1.142 | +0/.12 +0/-0.021 | 24.000 .9449 | +0/-0.021 +0/-0.0008 | 49.50 1.949 | .80 .031 | 25.00 .984 | 80.00 3.150 | 500 | N/A | N/A | N/A | 41,000 9,218 | 48,000 10,791 | | | | | | |
| MCFDE 62 | | | | | | | | | | | | | 20 | 1 .04 | | | 22 0.87 | 28 .10 | | | | |
| MCFD 62 X | | +0/-0.013 +0/-0.0005 | | | | | | | | | | | | | | | | | Cylindrical | N/A | N/A | N/A |
| MCFDE 62 X | | | | | | | | | | | | | | | | | | | | 1 .04 | 22 0.87 | 28 .10 |

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCFD-35-X.
 2. 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. If grease lubricated, frequent relubrication is required. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.
 3. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

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.

Heavy Duty CAMROL Bearings **MCGILL**



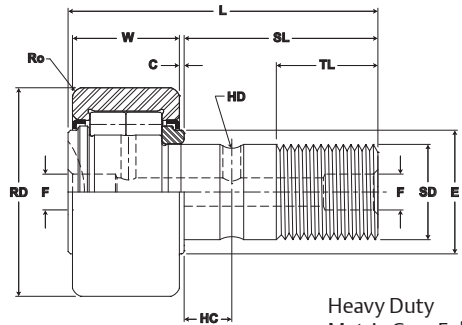
MCFD, MCFDE

| Part No. | HC | HD | D | E | Ro | HBD | sdt | Thread Type | CT | LSD | WT |
|------------|---------------|---------------------------|-------------------------------|------------------------|-------------------------|-----------------------|-------------------------|-------------|-----------------|-------------------------|----------------|
| | Hole Center | Radial Lub. Hole Diameter | Lub. Hole Dia. / Lub. Fitting | Min. Clamping Diameter | Outer Radius (suffix X) | Housing Bore Diameter | | Thread Type | Clamping Torque | Limiting Speed (Grease) | Bearing Weight |
| | mm inch | | mm inch | | mm inch | | Nm in-lb | | RPM | kg lb | |
| | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | | Tol. | | | |
| MCFD 35 | 8.00 .315 | 3.00 .118 | 6.00 .236 | 21.00 .827 | 1.00 .039 | 16.000 .6299 | +0/--.018 +0/--.0007 | M16x1.5 | 85 752 | 6,500 | .16 .36 |
| MCFDE 35 | | | | | | | | | | | |
| MCFD 35 X | | | | | | | | | | | |
| MCFDE 35 X | | | | | | | | | | | |
| MCFD 40 | 8.00 .315 | 3.00 .118 | 6.00 .236 | 23.00 .906 | 1.50 .059 | 18.000 .7087 | +0/--.018 +0/--.0007 | M18x1.5 | 85 752 | 5,500 | .24 .53 |
| MCFDE 40 | | | | | | | | | | | |
| MCFD 40 X | | | | | | | | | | | |
| MCFDE 40 X | | | | | | | | | | | |
| MCFD 47 | 9.00 .354 | 4.00 .157 | 8.00 .315 | 27.00 1.063 | 1.50 .059 | 20.000 .7874 | +0/--.021 +0/--.0008 | M20x1.5 | 118 1,044 | 4,200 | .38 .84 |
| MCFDE 47 | | | | | | | | | | | |
| MCFD 47 X | | | | | | | | | | | |
| MCFDE 47 X | | | | | | | | | | | |
| MCFD 52 | 9.00 .354 | 4.00 .157 | 8.00 .315 | 21.00 .827 | 1.50 .059 | 20.000 .7874 | +0/--.021 +0/--.0008 | M20x1.5 | 118 1,044 | 3,400 | .45 .99 |
| MCFDE 52 | | | | | | | | | | | |
| MCFD 52 X | | | | | | | | | | | |
| MCFDE 52 X | | | | | | | | | | | |
| MCFD 62 | 11.00 .433 | 4.00 .157 | 8.00 .315 | 38.00 1.496 | 2.00 .079 | 24.000 .9449 | +0/--.021 +0/--.0008 | M24x1.5 | 216 1,912 | 2,600 | .80 1.75 |
| MCFDE 62 | | | | | | | | | | | |
| MCFD 62 X | | | | | | | | | | | |
| MCFDE 62 X | | | | | | | | | | | |

MCGILL® Heavy Duty CAMROL Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Full Complement Cylindrical Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Metallic Shield
- Lubrication:** Lithium Soap Grease NLGI #2
- System Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Slot / Hex Hole
- Dimensional Interchange:** ISO Standard



Heavy Duty Metric Cam Follower

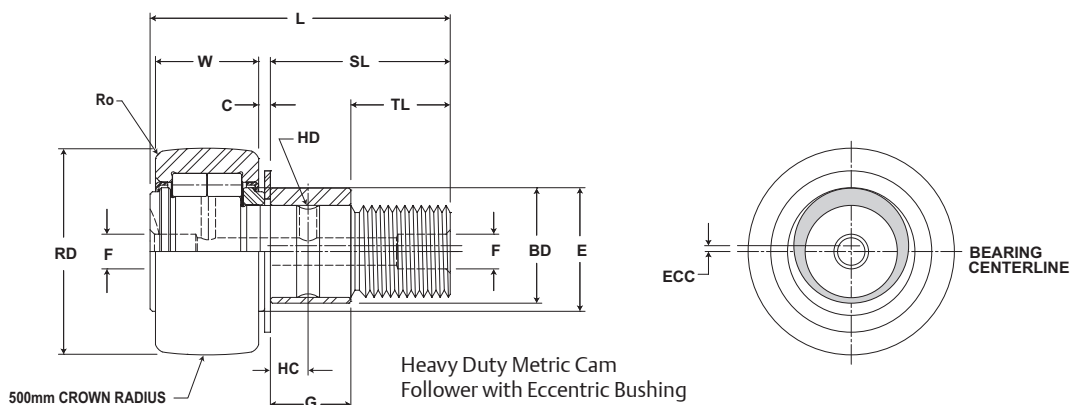
MCFD, MCFDE

| Part No. | RD | | W | | SD | | SL | C | TL | L | R | ECC | G | BD | Track Roller Dynamic Rating | Track Roller Static Rating | |
|--------------|------------------|------------------------|----------------|---------------------|------------------|-------------------------|----------------|--------------------|-----------------------|-----------------|------------------------------|----------------------------------|-------------------------|-----------|-----------------------------|----------------------------|-------------------|
| With Shields | Roller Diameter | | Roller Width | | Stud Diameter | | Stud Length | Endplate Extension | Minimum Thread Length | Length Overall | Cylindrical Suffix MCFD-xx-X | Eccentric Base Modifier MCFDE-xx | | | | | |
| | mm inch | mm inch | mm inch | mm inch | 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) | (Ref) | (Ref) | (Ref) | +05/-15 (+.002 / -.006) | See Table | N/lb | N/lb | |
| MCFD 72 | 72.000 2.8346 | +0/- .050 +0/- .002 | 29.00 1.142 | +0/.12 +0/- .025 | 24.000 .9449 | +0/- .021 +0/- .0008 | 49.50 1.949 | .80 .031 | 25.00 .984 | 80.00 3.150 | 500 20 | Cylindrical | N/A | N/A | N/A | 46,000 10,342 | 57,000 12,815 |
| MCFDE 72 | | 1 .04 | | 22 0.87 | | 28 .10 | | | | | | | | | | | |
| MCFD 72 X | | N/A | | N/A | | N/A | | | | | | | | | | | |
| MCFDE 72 X | | 1 .04 | | 22 0.87 | | 28 .10 | | | | | | | | | | | |
| MCFD 80 | 80.000 3.1496 | +0/- .050 +0/- .002 | 35.00 1.378 | +0/.12 +0/- .029 | 30.000 1.1811 | +0/- .021 +0/- .0008 | 63.00 2.480 | 1.00 .039 | 32.00 1.260 | 100.00 3.937 | 500 20 | Cylindrical | N/A | N/A | N/A | 67,000 15,063 | 91,000 20,459 |
| MCFDE 80 | | 1.5 .06 | | 29 1.14 | | 35 .38 | | | | | | | | | | | |
| MCFD 80 X | | N/A | | N/A | | N/A | | | | | | | | | | | |
| MCFDE 80 X | | 1.5 .06 | | 29 1.14 | | 35 .38 | | | | | | | | | | | |
| MCFD 90 | 90.000 3.5433 | +0/- .050 +0/- .002 | 35.00 1.378 | +0/.12 +0/- .033 | 30.000 1.1811 | +0/- .021 +0/- .0008 | 63.00 2.480 | 1.00 .039 | 32.00 1.260 | 100.00 3.937 | 500 20 | Cylindrical | N/A | N/A | N/A | 67,000 15,063 | 101,000 22,707 |
| MCFDE 90 | | 1.5 .06 | | 29 1.14 | | 35 .38 | | | | | | | | | | | |
| MCFD 90 X | | N/A | | N/A | | N/A | | | | | | | | | | | |
| MCFDE 90 X | | 1.5 .06 | | 29 1.14 | | 35 .38 | | | | | | | | | | | |

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCFD-35-X.
 2. 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. If grease lubricated, frequent relubrication is required. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.
 3. Clamping torque is based on dry threads. If threads are lubricated, use half of value shown.

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.

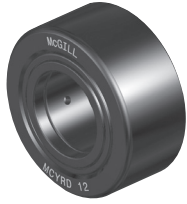
Heavy Duty CAMROL Bearings **McGILL**



MCFD, MCFDE

| Part No. | HC | HD | D | E | Ro | HBD | sdt | Thread Type | CT | LSD | WT |
|--------------|---------------|---------------------------|-------------------------------|------------------------|-------------------------|-----------------------|-------------------------|-------------|-----------------|-------------------------|----------------|
| With Shields | Hole Center | Radial Lub. Hole Diameter | Lub. Hole Dia. / Lub. Fitting | Min. Clamping Diameter | Outer Radius (suffix X) | Housing Bore Diameter | | Thread Type | Clamping Torque | Limiting Speed (Grease) | Bearing Weight |
| | mm inch | | mm inch | | mm inch | | Nm in-lb | | RPM | kg lb | |
| | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | | | | | Tol. |
| MCFD 72 | 12.00 .472 | 4.00 .157 | 8.00 .315 | 44.00 1.732 | 2.00 .079 | 24.000 .9449 | +0/- .021 +0/- .0008 | M24x1.5 | 216 1,912 | 2,100 | 1.01 2.23 |
| MCFDE 72 | | | | | | | | | | | |
| MCFD 72 X | | | | | | | | | | | |
| MCFDE 72 X | | | | | | | | | | | |
| MCFD 80 | 15.00 .591 | 4.00 .157 | 8.00 .315 | 47.00 1.850 | 2.00 .079 | 30.000 1.1811 | +0/- .021 +0/- .0008 | M30x1.5 | 441 3,903 | 1,800 | 1.54 3.39 |
| MCFDE 80 | | | | | | | | | | | |
| MCFD 80 X | | | | | | | | | | | |
| MCFDE 80 X | | | | | | | | | | | |
| MCFD 90 | 15.00 .591 | 4.00 .157 | 8.00 .315 | 47.00 1.850 | 2.00 .079 | 30.000 1.1811 | +0/- .021 +0/- .0008 | M30x1.5 | 441 3,903 | 1,800 | 1.96 4.32 |
| MCFDE 90 | | | | | | | | | | | |
| MCFD 90 X | | | | | | | | | | | |
| MCFDE 90 X | | | | | | | | | | | |

McGILL® Heavy Duty CAMROL Bearings



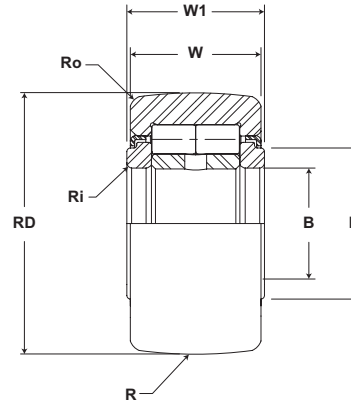
Basic Construction Type: Yoke Type Crowned / Cylindrical Outside Diameter

Rolling Elements: Full Complement Cylindrical Roller

Bearing Material: Bearing Quality Steel

Seal Type: Metallic Shield

Lubrication: Lithium Soap Grease NLGI #2



MCRYD

| Part No. | RD | | W | | B | | W1 | | R | Track Roller Dynamic Rating | Track Roller Static Rating |
|------------|-----------------|--------------------------|--------------|---------------------|---------------|-------------------------|---------------|------------------------|----------------|-----------------------------|----------------------------|
| | Roller Diameter | | Roller Width | | Bore Diameter | | Overall Width | | Cylindrical | | |
| | mm inch | | mm inch | | mm inch | | mm inch | | Suffix MCF-X | | |
| | Nom. | Tol. | Nom. | Tol. | Nom | Tol | Nom | Tol | mm inch Radius | | |
| MCRYD 15 | 35.000 | +0/- .050 +0/- .002 | 18.00 | +0/.12 +0/- .005 | 15.000 | +0/- .008 +0/- .0003 | 19.00 | +0/-0.21 +0/-0.0008 | 500 20 | 16,000 | 18,000 |
| MCRYD 15 X | 1.3780 | +0/-0.011 +0/- 0.0004 | .709 | | .5906 | | .748 | | Cylindrical | 3,597 | 4,047 |
| MCRYD 17 | 40.000 | +0/- .050 +0/- .002 | 20.00 | +0/.12 +0/- .009 | 17.000 | +0/- .008 +0/- .0003 | 21.00 | +0/-0.21 +0/-0.0008 | 500 20 | 18,000 | 22,000 |
| MCRYD 17 X | 1.5748 | +0/-0.011 +0/- 0.0004 | .787 | | .6693 | | .827 | | Cylindrical | 4,047 | 4,946 |
| MCRYD 20 | 47.000 | +0/- .050 +0/- .002 | 24.00 | +0/.12 +0/- .013 | 20.000 | +0/- .010 +0/- .0004 | 25.00 | +0/-0.21 +0/-0.0008 | 500 20 | 27,000 | 32,000 |
| MCRYD 20 X | 1.8504 | +0/-0.011 +0/- 0.0004 | .945 | | .7874 | | .984 | | Cylindrical | 6,070 | 7,194 |
| MCRYD 25 | 52.000 | +0/- .050 +0/- .002 | 24.00 | +0/.12 +0/- .017 | 25.000 | +0/- .010 +0/- .0004 | 25.00 | +0/-0.21 +0/-0.0008 | 500 20 | 30,000 | 35,000 |
| MCRYD 25 X | 2.0472 | +0/-0.013 +0/- 0.0005 | .945 | | .9843 | | .984 | | Cylindrical | 6,745 | 7,869 |
| MCRYD 30 | 62.000 | +0/- .050 +0/- .002 | 28.00 | +0/.12 +0/- .021 | 30.000 | +0/- .010 +0/- .0004 | 29.00 | +0/-0.21 +0/-0.0008 | 500 20 | 41,000 | 47,000 |
| MCRYD 30 X | 2.4409 | +0/-0.013 +0/- 0.0005 | 1.102 | | 1.1811 | | 1.142 | | Cylindrical | 9,218 | 10,567 |
| MCRYD 35 | 72.000 | +0/- .050 +0/- .002 | 28.00 | +0/.12 +0/- .025 | 35.000 | +0/- .012 +0/- .0005 | 29.00 | +0/-0.21 +0/-0.0008 | 500 20 | 46,000 | 57,000 |
| MCRYD 35 X | 2.8346 | +0/-0.013 +0/- 0.0005 | 1.102 | | 1.3780 | | 1.142 | | Cylindrical | 10,342 | 12,815 |
| MCRYD 40 | 80.000 | +0/- .050 +0/- .002 | 30.00 | +0/.12 +0/- .029 | 40.000 | +0/- .012 +0/- .0005 | 32.00 | +0/-0.25 +0/-0.009 | 500 20 | 64,000 | 71,000 |
| MCRYD 40 X | 3.1496 | +0/-0.015 +0/- 0.0006 | 1.181 | | 1.5748 | | 1.260 | | Cylindrical | 14,388 | 15,962 |
| MCRYD 45 | 85.000 | +0/- .050 +0/- .002 | 30.00 | +0/.12 +0/- .033 | 45.000 | +0/- .012 +0/- .0005 | 32.00 | +0/-0.25 +0/-0.009 | 500 20 | 67,000 | 72,000 |
| MCRYD 45 X | 3.3465 | +0/-0.015 +0/- 0.0006 | 1.181 | | 1.7717 | | 1.260 | | Cylindrical | 15,063 | 16,187 |
| MCRYD 50 | 90.000 | +0/- .050 +0/- .002 | 30.00 | +0/.12 +0/- .037 | 50.000 | +0/- .012 +0/- .0005 | 32.00 | +0/-0.25 +0/-0.009 | 500 20 | 71,000 | 77,000 |
| MCRYD 50 X | 3.5433 | +0/-0.015 +0/- 0.0006 | 1.181 | | 1.9685 | | 1.260 | | Cylindrical | 15,962 | 17,311 |

1. Standard bearing has a crowned roller outside diameter. For straight cylindrical outside roller diameter, add suffix "X". Example - MCRYD-15-X.

2. 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. If grease lubricated, frequent re-lubrication is required. Actual bearing testing in the specific application should be conducted if the anticipated operating speed approaches the listed limiting speed.

3. Positive clamping across endplates required to ensure proper end play after mounting.

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.

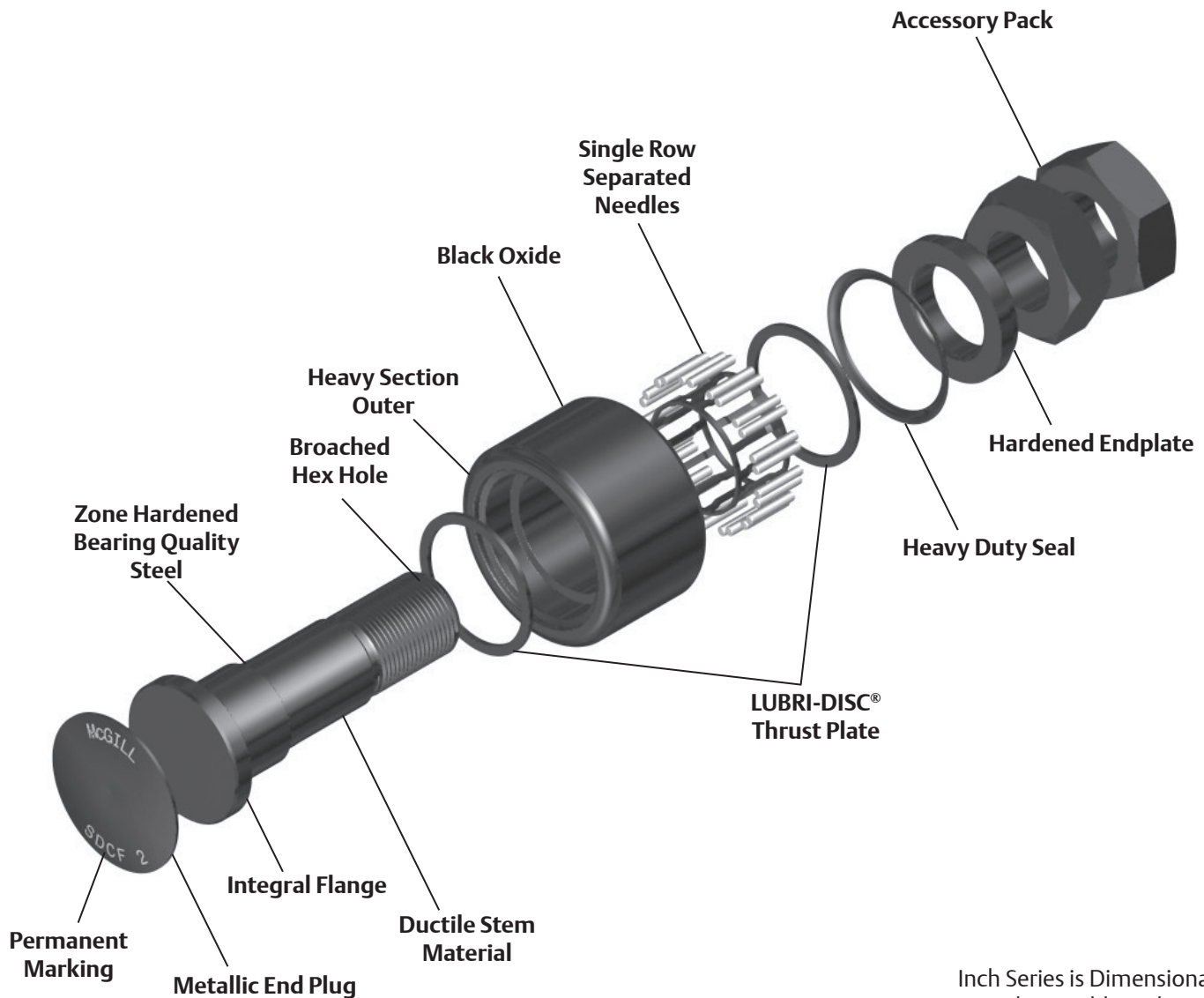


MCYRD

| E | Ro | Ri | LF | LFT | TF | TFT | LSD | WT | |
|----------------|------------------------|---------------------|---------------------|-----------------------------|------------------|-----------------------|-------|-------------------------|----------------|
| | Min. Clamping Diameter | Outer Corner Radius | Inner Corner Radius | Recommended Shaft Diameters | | | | Limiting Speed (Grease) | Bearing Weight |
| | | | | Loose Fit | | Light Fit | | | |
| | | | | mm inch | | mm inch | | | |
| (Ref) | (Ref) | (Ref) | Nom | Tol | Nom | Tol | RPM | kg lb | |
| 20.00 .787 | .60 .024 | .30 .012 | 14.994 .5903 | +0/-.011 +0/-.0004 | 15.000 .5906 | +0/-.011 +0/-.0004 | 6,500 | .10 .22 | |
| 22.00 .866 | 1.00 .039 | .30 .012 | 16.994 .6691 | +0/-.011 +0/-.0004 | 17.000 .6693 | +0/-.011 +0/-.0004 | 5,500 | .15 .32 | |
| 27.00 1.063 | 1.00 .039 | .30 .012 | 19.993 .7871 | +0/-.013 +0/-.0005 | 20.000 .7874 | +0/-.013 +0/-.0005 | 4,200 | .25 .54 | |
| 31.00 1.220 | 1.00 .039 | .30 .012 | 24.993 .9840 | +0/-.013 +0/-.0005 | 25.000 .9843 | +0/-.013 +0/-.0005 | 3,400 | .28 .62 | |
| 38.00 1.496 | 1.00 .039 | .30 .012 | 29.993 1.1808 | +0/-.013 +0/-.0005 | 30.000 1.1811 | +0/-.013 +0/-.0005 | 2,600 | .46 1.02 | |
| 44.00 1.732 | 1.10 .043 | .60 .024 | 34.991 1.3776 | +0/-.016 +0/-.0006 | 35.000 1.3780 | +0/-.016 +0/-.0006 | 2,100 | .63 1.39 | |
| 51.00 2.008 | 1.10 .043 | .60 .024 | 39.991 1.5744 | +0/-.016 +0/-.0006 | 40.000 1.5748 | +0/-.016 +0/-.0006 | 1,600 | .82 1.80 | |
| 55.00 2.165 | 1.10 .043 | .60 .024 | 44.991 1.7713 | +0/-.016 +0/-.0006 | 45.000 1.7717 | +0/-.016 +0/-.0006 | 1,400 | .89 1.95 | |
| 60.00 2.362 | 1.10 .043 | .60 .024 | 45.991 1.8107 | +0/-.016 +0/-.0006 | 50.000 1.9685 | +0/-.016 +0/-.0006 | 1,300 | .95 2.09 | |

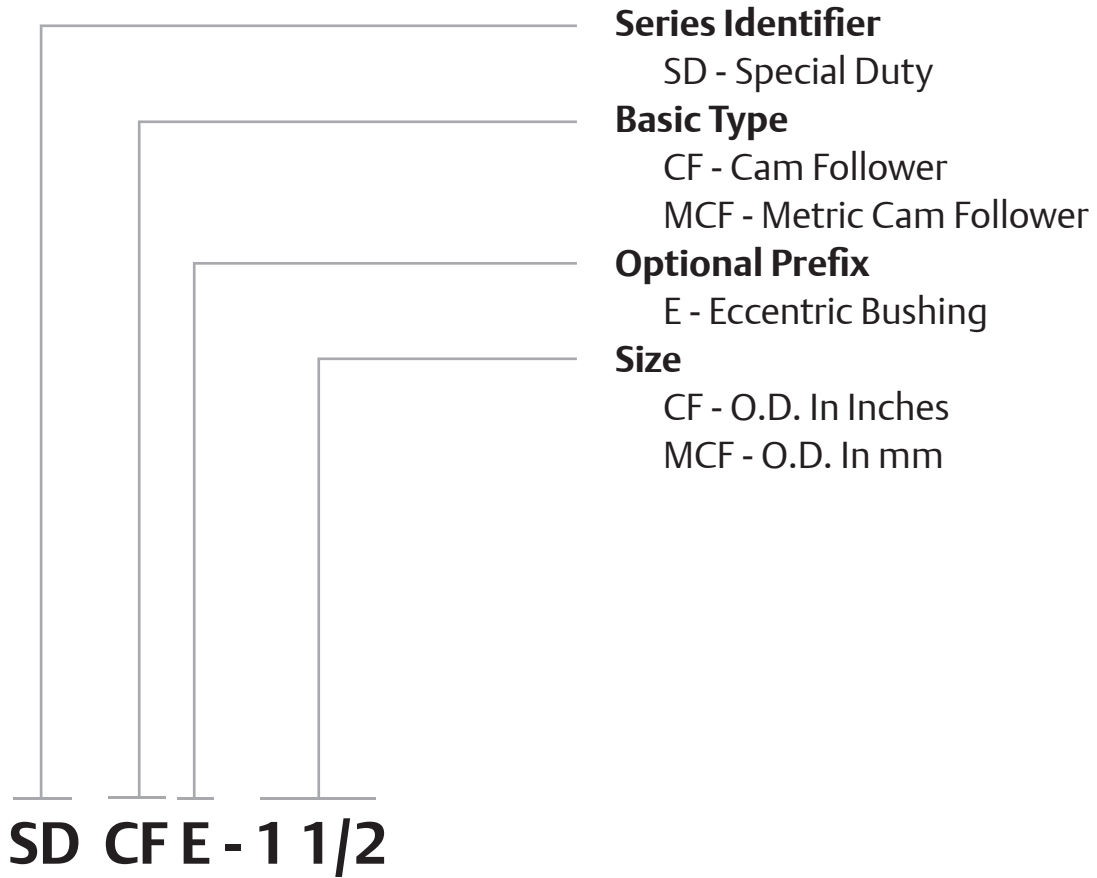
McGill Special Duty Cam Followers

Special-Duty CAMROL bearings are available feature black oxide treated bearing steel in both inch and metric sizes for your motion control needs. Designed for severe applications, bearings thick section outer race, together with a caged (retainer) needle roller set provides the basic foundation for a cam follower suited for severe duty. Integral flange construction, on stud version bearings help maintain bearing integrity throughout the service life. A metallic face plug seal provides a wear resistant seal while the heavy duty seal provides a barrier for contaminate entry to support reduced maintenance applications. Within the following section you can learn more about these feature and how the can be applied to your tough application.

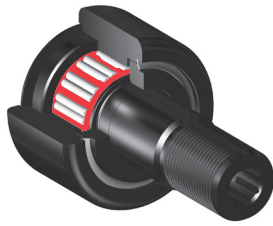


Inch Series is Dimensionally Interchangeable with Standard INCH CAMROL Factory Filled Synthetic Grease.

Special Duty Cam Follower Nomenclature

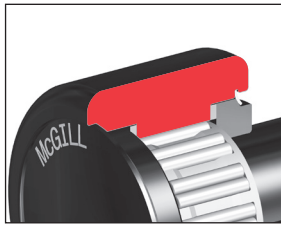


Features and Benefits



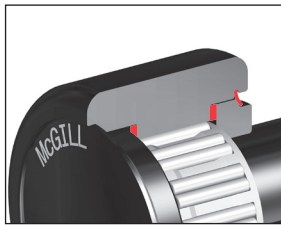
Retainer Type

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 to help improve static and dynamic load ratings.



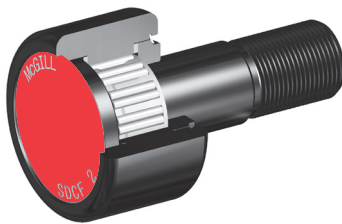
Heavy Section Outer

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



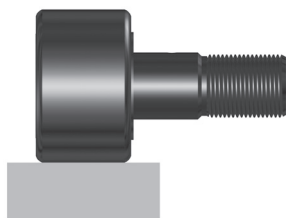
LUBRI-DISC® Seal

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.



End Plug Seal

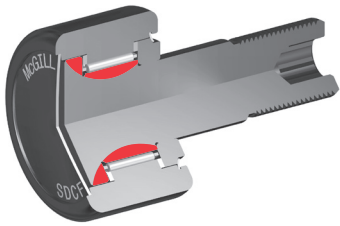
Metallic Plug seal helps keep contamination out of the bearing and resistant to weld spatter, abrasive contaminants and washout. The plug installed into the outer encapsulates the flange side of the bearing resulting in a large grease reservoir and wear resistant bearing seal.



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.

Features and Benefits continued



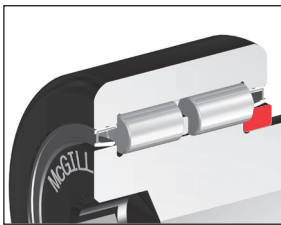
Zone Hardened Raceways

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.



Hex Hole (Broached)

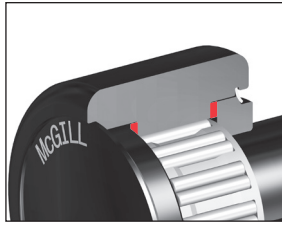
The hex hole can aid in the installation and removal of stud type cam followers by increasing the holding power over a standard screw driver or milled slot.



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.

Features and Benefits



LUBRI-DISC® Thrust Washer

Utilizing the LUBRI-DISC properties as a 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.

Factory Grease Fill

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



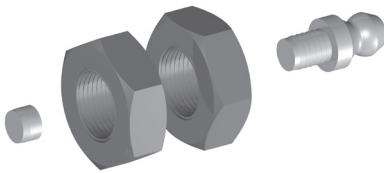
Black Oxide Finish

Bearings have a black oxide finish on all external surfaces.



Permanent Marking

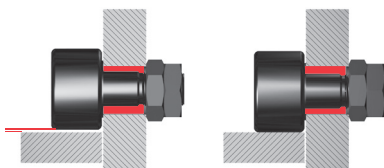
Part number permanently marked on bearing face, helps bearing identification after years of service.



Installation Accessory Pack

All McGill stud type special duty Cam followers include (2) jam nuts to ensure proper thread type (Metric/ Inch), grease fitting and oil hole plug to help provide proper lubrication path to the rolling elements and prevent contamination from entering the bearing through a unused oil hole.

Options



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.

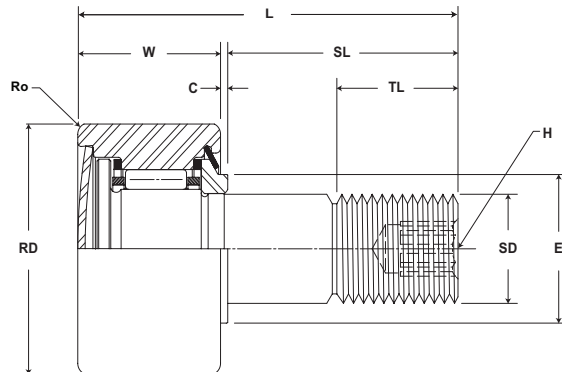
Custom Capabilities

- *Customer specified factory grease fill*
- *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® Special Duty CAMROL Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Retained (Caged) Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Metal Extension Plug and LUBRI-DISC® Seal
- Lubrication:** Synthetic Grease NLGI #2
- System Configuration:** Concentric / Eccentric
- Mounting Feature:** Hex Hole on Thread Face
- Dimensional Interchange:** Standard CAMROL Bearing



SDCF

| Part No. | RD | | W | | SD | | SL | C | TL | L | Track Roller Dynamic Rating | Track Roller Static Rating |
|------------|-----------------|----------------------------|------------------|----------------------------|------------------|----------------------------|--------------|--------------------|-----------------------|----------------|-----------------------------|----------------------------|
| | Roller Diameter | | Roller Width | | Stud Diameter | | Stud Length | Endplate Extension | Minimum Thread Length | Length Overall | | |
| | inch | mm | inch | mm | inch | mm | inch | mm | inch | mm | | |
| | Nom. | Tol. | Nom. | Tol. | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | lb/N | lb/N |
| SDCF 1 | 1.000 25.40 | +0 / -0.001 +0 / - 0.03 | .6250 15.875 | +0 / -0.010 +0 / - 0.25 | .4375 11.113 | +0.001 / -0 +0.03 / - 0 | 1.00 25.4 | .03 .8 | .50 12.7 | 1.09 27.8 | 1,280 5,693 | 1,450 6,450 |
| SDCF 1 1/4 | 1.250 31.75 | +0 / -0.001 +0 / - 0.03 | .7500 19.050 | +0 / -0.010 +0 / - 0.25 | .5000 12.700 | +0.001 / -0 +0.03 / - 0 | 1.25 31.8 | .03 .8 | .63 15.9 | 1.28 32.5 | 1,630 7,250 | 2,050 9,118 |
| SDCF 1 1/2 | 1.500 38.10 | +0 / -0.001 +0 / - 0.03 | .8750 22.225 | +0 / -0.010 +0 / - 0.25 | .6250 15.875 | +0.001 / -0 +0.03 / - 0 | 1.50 38.1 | .03 .8 | .75 19.1 | 1.53 38.9 | 2,450 10,898 | 3,570 15,879 |
| SDCF 1 3/4 | 1.750 44.45 | +0 / -0.001 +0 / - 0.03 | 1.0000 25.400 | +0 / -0.010 +0 / - 0.25 | .7500 19.050 | +0.001 / -0 +0.03 / - 0 | 1.75 44.5 | .03 .8 | .88 22.2 | 1.78 45.2 | 3,000 13,344 | 4,450 19,794 |
| SDCF 2 | 2.000 50.80 | +0 / -0.001 +0 / - 0.03 | 1.2500 31.750 | +0 / -0.010 +0 / - 0.25 | .8750 22.225 | +0.001 / -0 +0.03 / - 0 | 2.00 50.8 | .03 .8 | 2.00 50.8 | 2.16 54.8 | 4,000 17,792 | 6,700 29,802 |
| SDCF 2 1/2 | 2.500 63.50 | +0 / -0.001 +0 / - 0.03 | 1.5000 38.100 | +0 / -0.010 +0 / - 0.25 | 1.0000 25.400 | +0.001 / -0 +0.03 / - 0 | 2.25 57.2 | .03 .8 | 2.25 57.2 | 2.53 64.3 | 5,930 26,377 | 10,400 46,259 |
| SDCF 3 | 3.000 76.20 | +0 / -0.001 +0 / - 0.03 | 1.7500 44.450 | +0 / -0.010 +0 / - 0.25 | 1.2500 31.750 | +0.001 / -0 +0.03 / - 0 | 2.50 63.5 | .03 .8 | 2.50 63.5 | 3.03 77.0 | 10,500 46,704 | 19,700 87,626 |
| SDCF 4 | 4.000 101.60 | +0 / -0.001 +0 / - 0.03 | 2.2500 57.150 | +0 / -0.010 +0 / - 0.25 | 1.5000 38.100 | +0.001 / -0 +0.03 / - 0 | 3.50 88.9 | .03 .8 | 3.50 88.9 | 3.78 96.0 | 12,700 56,490 | 23,200 103,194 |

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

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.



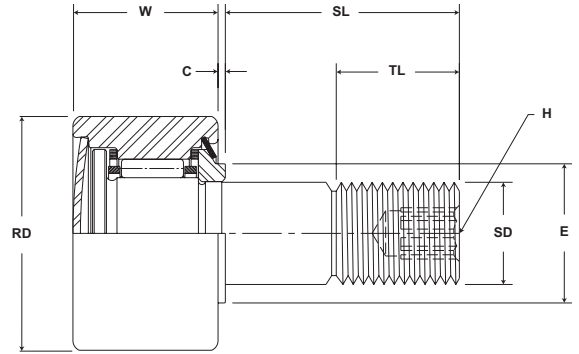
SDCF

| Part No. | H | E | Ro | Housing Bore Diameter | | Thread Type | Clamping Torque | Limiting Speed | WT |
|------------|-------------|------------------------|---------------------|-----------------------|----------------------------------|-------------|-----------------|----------------|----------------|
| | Hex Hole | Min. Clamping Diameter | Outer Corner Radius | | | | | | Bearing Weight |
| | inch mm | | inch mm | inch mm | | | in-lb | RPM | lb kg |
| | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | | |
| SDCF 1 | .25 6.4 | .59 15.1 | .03 .8 | .44 11.1 | +0.002/-0.003 +0.0005/-0.0008 | 7/16-20 | 250 28 | 12,500 | .16 .07 |
| SDCF 1 1/4 | .25 6.4 | .83 21.0 | .03 .8 | .50 12.7 | +0.002/-0.003 +0.0005/-0.0008 | 1/2-20 | 350 40 | 8,100 | .29 .13 |
| SDCF 1 1/2 | .31 7.9 | .95 24.2 | .06 1.6 | .63 15.9 | +0.002/-0.003 +0.0005/-0.0008 | 5/8-18 | 650 73 | 6,300 | .49 .22 |
| SDCF 1 3/4 | .31 7.9 | 1.11 28.2 | .06 1.6 | .75 19.1 | +0.002/-0.003 +0.0005/-0.0008 | 3/4-16 | 1,250 141 | 5,000 | .80 .36 |
| SDCF 2 | .44 11.1 | 1.28 32.5 | .09 2.4 | .88 22.2 | +0.002/-0.003 +0.0005/-0.0008 | 7/8-14 | 1,500 170 | 3,900 | 1.30 .59 |
| SDCF 2 1/2 | .50 12.7 | 1.56 39.7 | .09 2.4 | .00 25.4 | +0.002/-0.003 +0.0005/-0.0008 | 1-14 | 2,250 254 | 3,100 | 2.33 1.06 |
| SDCF 3 | .75 19.1 | 2.14 54.4 | .13 3.2 | .25 31.8 | +0.002/-0.003 +0.0005/-0.0008 | 1 1/4-12 | 3,450 390 | 2,200 | 3.87 1.76 |
| SDCF 4 | .75 19.1 | 2.63 66.7 | .13 3.2 | .50 38.1 | +0.002/-0.003 +0.0005/-0.0008 | 1 1/2-12 | 5,000 565 | 1,900 | 8.89 4.03 |

MCGILL® Special Duty CAMROL Bearings



- Basic Construction Type:** Stud Type Crowned / Cylindrical Outside Diameter
- Rolling Elements:** Retained (Caged) Needle Roller
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Metal Extension Plug and Rubber Lip Seal
- Lubrication:** Synthetic Grease NLGI #2
- System Configuration:** Concentric / Eccentric
- Mounting Feature:** Hex Hole on Thread Face



SDMCF

| 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 | Cylindrical Prefix SDCF-XX | Eccentric Base Modifier SDCF-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) | +0/- .001 (+0/- .03) | ± .001 (± .03) | | |
| SDMCF 25 | 25.00 | +0 / -0.02 | 16.00 | +0 / -0.25 | 10.00 | +0 / -0.02 | 25 | .8 | 14 | 27 | 500 20 | N/A | N/A | N/A | 5,690 1,279 | 6,450 1,450 |
| SDMCFE 25 | .984 | +0 / - 0.001 | .630 | +0 / - 0.010 | .394 | +0 / - 0.001 | .98 | .03 | .55 | 1.1 | 500 20 | .5 .02 | 10 .39 | 13 .51 | | |
| SDMCF 40 | 40.00 | +0 / -0.02 | 25.00 | +0 / -0.25 | 16.00 | +0 / -0.02 | 30 | .8 | 17 | 42 | 500 20 | N/A | N/A | N/A | 10,890 2,448 | 15,900 3,575 |
| SDMCFE 40 | 1.575 | +0 / - 0.001 | .984 | +0 / - 0.010 | .630 | +0 / - 0.001 | 1.18 | .03 | .67 | 1.6 | 500 20 | .5 .02 | 14 .55 | 20 .79 | | |
| SDMCF 50 | 50.00 | +0 / -0.02 | 30.00 | +0 / -0.25 | 20.00 | +0 / -0.02 | 40 | .8 | 22 | 51 | 500 20 | N/A | N/A | N/A | 17,750 3,991 | 29,800 6,700 |
| SDMCFE 50 | 1.969 | +0 / - 0.001 | 1.181 | +0 / - 0.010 | .787 | +0 / - 0.001 | 1.57 | .03 | .87 | 2.0 | 500 20 | 1 .04 | 18 .71 | 24 .94 | | |
| SDMCF 60 | 60.00 | +0 / -0.02 | 35.00 | +0 / -0.25 | 24.00 | +0 / -0.02 | 50 | .8 | 27 | 60 | 500 20 | N/A | N/A | N/A | 26,380 5,931 | 46,300 10,409 |
| SDMCFE 60 | 2.362 | +0 / - 0.001 | 1.378 | +0 / - 0.010 | .945 | +0 / - 0.001 | 1.97 | .03 | 1.06 | 2.4 | 500 20 | 1 .04 | 22 .87 | 28 .10 | | |
| SDMCF 80 | 80.00 | +0 / -0.02 | 45.00 | +0 / -0.25 | 30.00 | +0 / -0.02 | 60 | .8 | 32 | 76 | 500 20 | N/A | N/A | N/A | 4,680 1,052 | 87,600 19,694 |
| SDMCFE 80 | 3.150 | +0 / - 0.001 | 1.772 | +0 / - 0.010 | 1.181 | +0 / - 0.001 | 2.36 | .03 | 1.26 | 3.0 | 500 20 | .5 .06 | 29 .14 | 35 .38 | | |
| SDMCF 100 | 100.00 | +0 / -0.02 | 50.00 | +0 / -0.25 | 36.00 | +0 / -0.02 | 80 | .8 | 42 | 87 | 800 31 | N/A | N/A | N/A | 56,500 12,702 | 103,200 23,201 |

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

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.

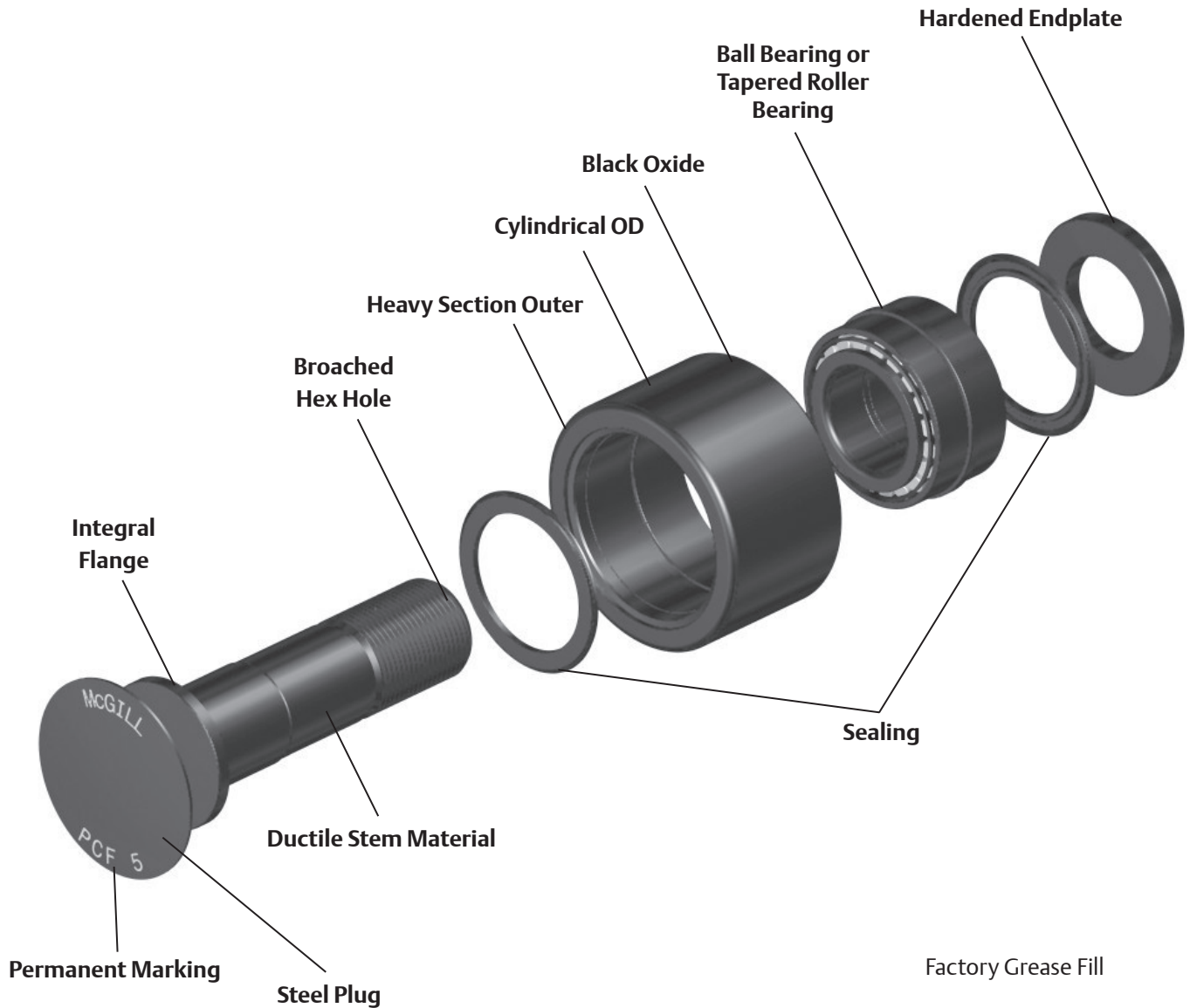


SDMCF

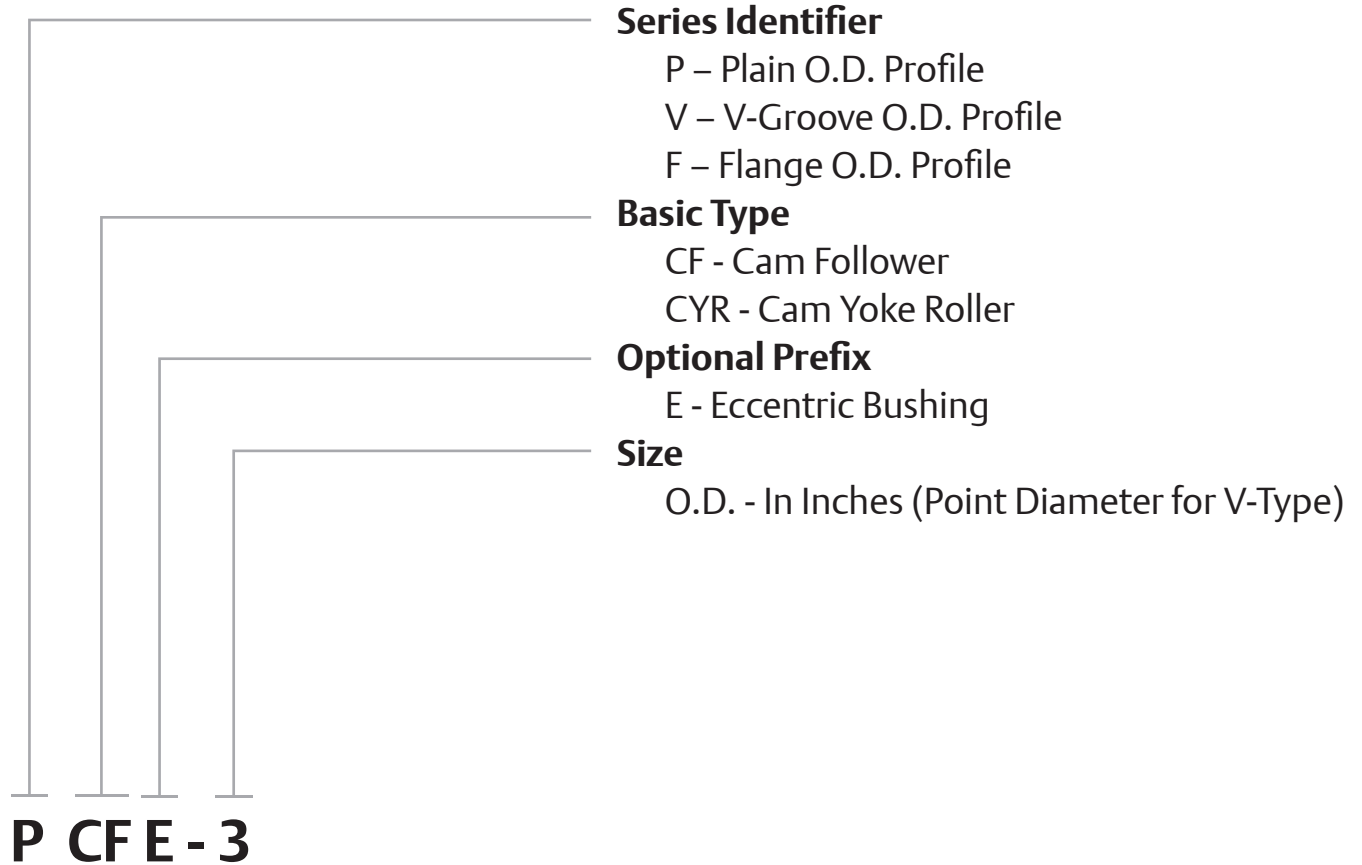
| Part No. | H | E | Ro | Housing Bore Diameter | | Thread Type | Clamping Torque | WT |
|-----------|------------|------------------------|---------------------|-----------------------|---------------|-------------|-----------------|----------------|
| | Hex Hole | Min. Clamping Diameter | Outer Corner Radius | | | | | Bearing Weight |
| | mm inch | | mm inch | mm inch | | | Nm in-lb | kg lb |
| | (Ref) | (Ref) | (Ref) | Nom. | Tol. | | | |
| SDMCF 25 | 5 | 15.1 | 1 | 10.00 | +0.025/-0.000 | M10x1.25 | 57 | .06 |
| SDMCFE 25 | .20 | .59 | .04 | .394 | +0.001/-0.000 | | 6 | .14 |
| SDMCF 40 | 8 | 24.1 | 1 | 16.00 | +0.025/-0.000 | M16x1.5 | 85 | .26 |
| SDMCFE 40 | .31 | .95 | .04 | .630 | +0.001/-0.004 | | 10 | .57 |
| SDMCF 50 | 10 | 32.5 | 1 | 20.00 | +0.025/-0.000 | M20x1.5 | 85 | .50 |
| SDMCFE 50 | .39 | 1.28 | .04 | .787 | +0.001/-0.008 | | 10 | 1.10 |
| SDMCF 60 | 12 | 39.6 | 1 | 24.00 | +0.025/-0.000 | M24x2 | 118 | .85 |
| SDMCFE 60 | .47 | 1.56 | .04 | .945 | +0.001/-0.012 | | 13 | 1.86 |
| SDMCF 80 | 14 | 54.2 | 2 | 30.00 | +0.025/-0.000 | M30x2 | 118 | 1.89 |
| SDMCFE 80 | .55 | 2.13 | .08 | .181 | +0.001/-0.016 | | 13 | 4.16 |
| SDMCF 100 | 17 | 66.5 | 2 | 36.00 | +0.025/-0.000 | M36x3 | 118 | 3.36 |
| | .67 | 2.62 | .08 | .417 | +0.001/-0.020 | | 13 | 7.40 |

McGill TRAKROL Followers

TRAKROL bearings feature black oxide treated bearing steel and utilize either a precision ball or tapered roller bearing insert for longer operating life under combination radial and thrust loads. The capacity for combination loads allow the TRAKROL bearing to be available in plain (cylindrical), V-groove, and flanged O.D. in both stud and yoke styles. Small sizes (<3" OD or point diameter) use sealed ball bearing inserts along with a NYLAPLATE seal for additional protection. Stud type configurations utilize a metal end plug seal on the roller face providing a long lasting seal. Both bearing types provide a large internal grease reservoir along with special sealing makes TRAKROL bearings an excellent choice where reduced maintenance is required.



TRAKROL Nomenclature



Features and Benefits

Configurations

TRAKROL® bearings feature precision ball bearings or tapered roller bearings to help provide longer life when subjected to a combination of radial and thrust loads.



Plain Series

Plain OD bearings are generally used to support radial loads. Can also act as a “float” bearing when used in conjunction with a flange or V-Groove type.



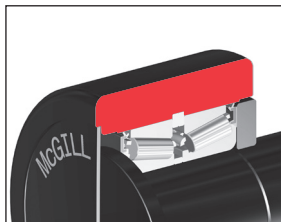
Flanged Series

Flanged OD bearings are popular in guide rail applications since integral flange help direct the load axially.



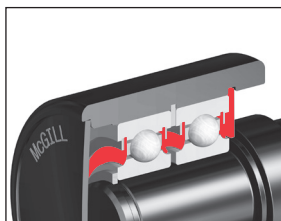
V-Groove Series

Typically used with “V” shaped tracks for both guidance and radial support. The configuration of the track reduces the amount of sediment build-up on the track.



Heavy Section Outer

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



Sealing

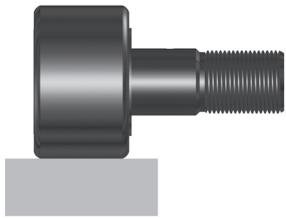
All TRAKROL bearing utilize rubber lip seals to help improve sealing and grease retention. TRAKROL bearings under 3” feature a ball bearing insert along with a NYLAPLATE wiping seal for addition protection. The NYLAPLATE seal is exclusive to McGill TRAKROL bearings and complements the rubber lip seal provided with the bearing insert.

Features and Benefits continued



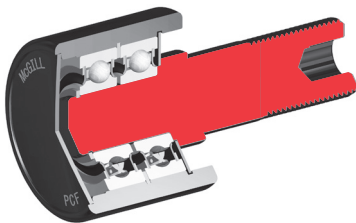
Steel Plug

Metallic Plug seal helps keep contamination out the bearing and is resistant to weld spatter, abrasive contaminants and washout.



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.



Ductile Material

Ductile stem helps resist shock loads.

Factory Grease Fill

The bearings are factory lubricated with medium temperature grease. Contact Application Engineering when application conditions require special lubricants.



Black Oxide Finish

Bearings have a black oxide finish on all external surfaces.



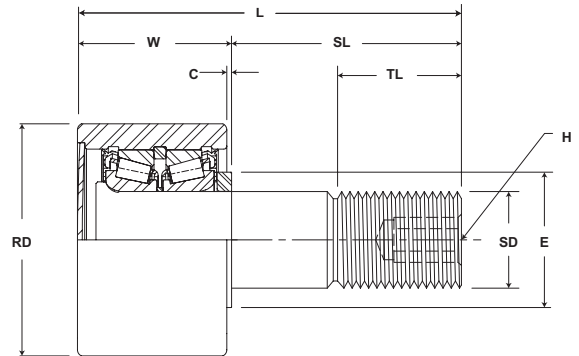
Permanent Marking

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

MCGILL® TRAKROL Cam Follower Bearings



- Basic Construction Type:** Stud Type Cylindrical Outside Diameter
- Rolling Elements:** Ball or Tapered Roller Bearing Insert
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Metal Extension Plug and Rubber Lip Seal. Ball Bearing has Additional NYLAPLATE Seal
- Lubrication:** Polyurea Thickened Grease NLGI #2
- Stem Configuration:** Concentric / Eccentric
- Mounting Feature:** Hex Hole on Thread Face



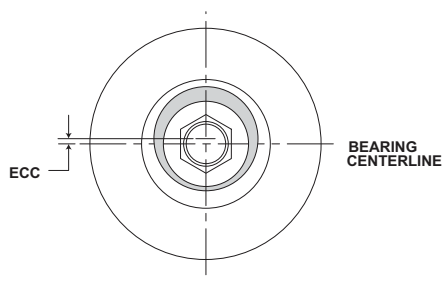
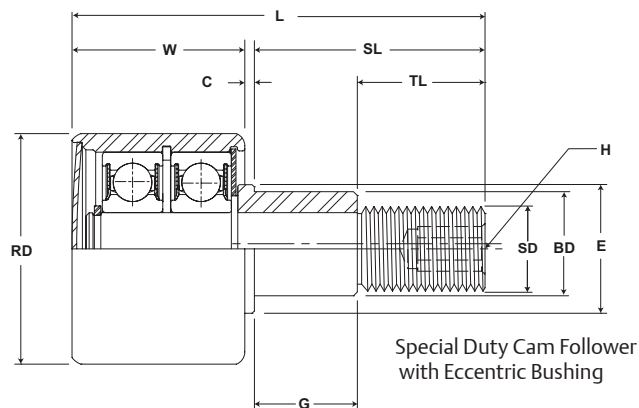
PCF

| Part No. | Insert Type | RD | W | SD | | SL | C | TL | L | Track Roller Dynamic Rating | Track Roller Dynamic Thrust Rating* | Track Roller Static Rating |
|-----------------------|--------------------------------|-----------------|--------------|---------------|-------------|-------------|--------------------|---------------|----------------|-----------------------------|-------------------------------------|----------------------------|
| With LUBRI-DISC Seals | Ball or Tapered Roller Bearing | Roller Diameter | Roller Width | Stud Diameter | | Stud Length | Endplate Extension | Thread Length | Length Overall | lb/N | lb/N | lb/N |
| | | inch mm | inch mm | inch mm | | inch mm | inch mm | inch mm | | | | |
| | | (Ref) | (Ref) | Nom | Tol | (Ref) | (Ref) | Min | (Ref) | | | |
| PCF 1 1/2 | BB | 1.50 | 1.19 | .625 | +0 / -0.001 | 1.500 | .06 | .75 | 2.69 | 2,520 | 1,320 | 1,370 |
| PCFE 1 1/2 | | 38.1 | 30.2 | 15.9 | +0 / - 0.03 | 38.10 | 1.6 | 19.1 | 68.3 | 11,209 | 5,871 | 6,094 |
| PCF 1 3/4 | BB | 1.75 | 1.19 | .750 | +0 / -0.001 | 1.750 | .06 | .88 | 2.94 | 2,520 | 1,320 | 1,370 |
| PCFE 1 3/4 | | 44.5 | 30.2 | 19.1 | +0 / - 0.03 | 44.45 | 1.6 | 22.2 | 74.6 | 11,209 | 5,871 | 6,094 |
| PCF 2 | BB | 2.00 | 1.69 | .875 | +0 / -0.001 | 2.000 | .06 | 1.13 | 3.69 | 3,490 | 1,830 | 2,000 |
| PCFE 2 | | 50.8 | 42.9 | 22.2 | +0 / - 0.03 | 50.80 | 1.6 | 28.6 | 93.7 | 15,524 | 8,140 | 8,896 |
| PCF 2 1/4 | BB | 2.25 | 1.69 | .875 | +0 / -0.001 | 2.000 | .06 | 1.13 | 3.69 | 3,490 | 1,830 | 2,000 |
| PCFE 2 1/4 | | 57.2 | 42.9 | 22.2 | +0 / - 0.03 | 50.80 | 1.6 | 28.6 | 93.7 | 15,524 | 8,140 | 8,896 |
| PCF 2 1/2 | BB | 2.50 | 1.69 | 1.00 | +0 / -0.001 | 2.250 | .06 | 1.50 | 3.94 | 5,120 | 2,680 | 3,120 |
| PCFE 2 1/2 | | 63.5 | 42.9 | 25.4 | +0 / - 0.03 | 57.15 | 1.6 | 38.1 | 100.0 | 22,774 | 11,921 | 13,878 |
| PCF 3 | TRB | 3.00 | 2.00 | 1.25 | +0 / -0.001 | 2.500 | .06 | 1.75 | 4.50 | 14,300 | 5,790 | 16,000 |
| PCFE 3 | | 76.2 | 50.8 | 31.8 | +0 / - 0.03 | 63.50 | 1.6 | 44.5 | 114.3 | 63,606 | 25,754 | 71,168 |
| PCF 3 1/4 | TRB | 3.25 | 2.00 | 1.25 | +0 / -0.001 | 2.500 | .06 | 1.75 | 4.50 | 14,300 | 5,790 | 16,000 |
| PCFE 3 1/4 | | 82.6 | 50.8 | 31.8 | +0 / - 0.03 | 63.50 | 1.6 | 44.5 | 114.3 | 63,606 | 25,754 | 71,168 |
| PCF 3 1/2 | TRB | 3.50 | 2.00 | 1.25 | +0 / -0.001 | 2.750 | .06 | 1.75 | 4.75 | 14,300 | 5,790 | 16,000 |
| PCFE 3 1/2 | | 88.9 | 50.8 | 31.8 | +0 / - 0.03 | 69.85 | 1.6 | 44.5 | 120.7 | 63,606 | 25,754 | 71,168 |
| PCF 4 | TRB | 4.00 | 2.00 | 1.25 | +0 / -0.001 | 2.750 | .06 | 1.75 | 4.75 | 14,300 | 5,790 | 16,000 |
| PCFE 4 | | 101.6 | 50.8 | 31.8 | +0 / - 0.03 | 69.85 | 1.6 | 44.5 | 120.7 | 63,606 | 25,754 | 71,168 |
| PCF 4 1/2 | TRB | 4.50 | 2.00 | 1.25 | +0 / -0.001 | 2.750 | .06 | 1.75 | 4.75 | 14,300 | 5,790 | 16,000 |
| PCF 5 | | 114.3 | 50.8 | 31.8 | +0 / - 0.03 | 69.85 | 1.6 | 44.5 | 120.7 | 63,606 | 25,754 | 71,168 |
| PCF 6 | TRB | 6.00 | 3.00 | 2.50 | +0 / -0.001 | 5.500 | .06 | 3.25 | 8.50 | 35,800 | 14,200 | 62,000 |
| PCF 7 | | 152.4 | 76.2 | 63.5 | +0 / - 0.03 | 139.70 | 1.6 | 82.6 | 215.9 | 159,238 | 63,162 | 275,776 |
| PCF 8 | TRB | 8.00 | 3.00 | 2.50 | +0 / -0.001 | 5.500 | .06 | 3.25 | 8.50 | 35,800 | 14,200 | 62,000 |
| | | 203.2 | 76.2 | 63.5 | +0 / - 0.03 | 139.70 | 1.6 | 82.6 | 215.9 | 159,238 | 63,162 | 275,776 |

*Dynamic thrust load rating based on application of a centric, axial load. Fatigue life calculations for combined radial and thrust loading require special considerations and Application Engineering should be contacted.

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.

TRAKROL Cam Follower Bearings **MCGILL**



PCF

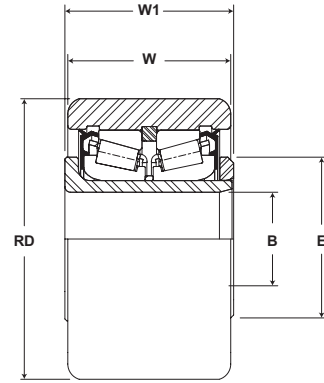
| Part No. | ECC | G | BD | H | E | Housing Bore Diameter | | Thread Type | Clamping Torque | WT | | | | |
|-----------------------|---------------------------------|----------|-------|----------|------------------------|------------------------|-------|-------------|-----------------|-------|-----------------|-------|----------|-------|
| | | | | | | Hex Hole | | | | | Clamping Torque | WT | | |
| | | | | | | Min. Clamping Diameter | | | | | | | in-lb Nm | lb kg |
| | | | | | | inch mm | | | | | | | | |
| With LUBRI-DISC Seals | Eccentric Base Modifier PCFE-XX | | | Hex Hole | Min. Clamping Diameter | Housing Bore Diameter | | Thread Type | Clamping Torque | WT | | | | |
| | inch mm | | | inch mm | inch mm | inch mm | | | | | | | | |
| | (Ref) | +0/-.010 | ±.001 | (Ref) | (Ref) | Nom. | Tol. | | | | | | | |
| PCF 1 1/2 | - | - | - | .2500 | .75 | .6260 | | 5/8-18 | 650 | .51 | | | | |
| PCFE 1 1/2 | .03 | .73 | .875 | 6.350 | 19.1 | 15.900 | ±.001 | | | | 74 | .23 | | |
| PCF 1 3/4 | - | - | - | .2500 | 1.00 | .7510 | | 3/4-16 | 1,250 | .81 | | | | |
| PCFE 1 3/4 | .03 | .86 | 1.000 | 6.350 | 25.4 | 19.075 | ±.001 | | | | 142 | .37 | | |
| PCF 2 | - | - | - | .3750 | 1.00 | .8760 | | 7/8-14 | 1,500 | 1.34 | | | | |
| PCFE 2 | .03 | .98 | 1.187 | 9.525 | 25.4 | 22.250 | ±.001 | | | | 170 | .61 | | |
| PCF 2 1/4 | - | - | - | .3750 | 1.00 | .8760 | | 7/8-14 | 1,500 | 1.72 | | | | |
| PCFE 2 1/4 | .03 | .98 | 1.187 | 9.525 | 25.4 | 22.250 | ±.001 | | | | 170 | .78 | | |
| PCF 2 1/2 | - | - | - | .4375 | 1.25 | 1.0010 | | 1-14 | 2,240 | 2.12 | | | | |
| PCFE 2 1/2 | .03 | .98 | 1.187 | 11.113 | 31.8 | 25.425 | ±.001 | | | | 254 | .96 | | |
| PCF 3 | - | - | - | .4375 | 1.75 | 1.2510 | | 1 1/4-12 | 3,440 | 3.91 | | | | |
| PCFE 3 | .06 | 1.23 | 1.750 | 11.113 | 44.5 | 31.775 | ±.001 | | | | 388 | 1.77 | | |
| PCF 3 1/4 | - | - | - | .4375 | 1.75 | 1.2510 | | 1 1/4-12 | 3,440 | 4.60 | | | | |
| PCFE 3 1/4 | .06 | 1.23 | 1.750 | 11.113 | 44.5 | 31.775 | ±.001 | | | | 388 | 2.08 | | |
| PCF 3 1/2 | - | - | - | .4375 | 1.75 | 1.2510 | | 1 1/4-12 | 3,440 | 6.25 | | | | |
| PCFE 3 1/2 | .06 | 1.36 | 1.812 | 11.113 | 44.5 | 31.775 | ±.001 | | | | 388 | 2.83 | | |
| PCF 4 | - | - | - | .4375 | 1.75 | 1.2510 | | 1 1/4-12 | 3,440 | 7.94 | | | | |
| PCFE 4 | .06 | 1.36 | 1.812 | 11.113 | 44.5 | 31.775 | ±.001 | | | | 388 | 3.60 | | |
| PCF 4 1/2 | - | - | - | .4375 | 1.75 | 1.2510 | | 1 1/4-12 | 3,440 | 9.88 | | | | |
| PCF 5 | - | - | - | 11.113 | 44.5 | 31.775 | ±.001 | | | | 388 | 4.48 | | |
| PCF 6 | - | - | - | .8750 | 3.25 | 2.5010 | | 2 1/2-12 | 5,000 | 30.00 | | | | |
| PCF 7 | - | - | - | 22.225 | 82.6 | 63.525 | ±.001 | | | | 566 | 13.61 | | |
| PCF 8 | - | - | - | .8750 | 3.25 | 2.5010 | | 2 1/2-12 | 5,000 | 49.00 | | | | |
| | - | - | - | 22.225 | 82.6 | 63.525 | ±.001 | | | | 566 | 22.23 | | |

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

MCGILL® TRAKROL Cam Follower Bearings



- Basic Construction Type:** Yoke Type Cylindrical Outside Diameter
- Rolling Elements:** Ball or Tapered Roller Bearing Insert
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Rubber Lip
- Lubrication:** Polyurea Thickened Grease NLGI #2



PCYR

| Part No. | Insert Type | RD | W | B | | W1 | E | Track Roller Dynamic Rating | Thrust Capacity | Track Roller Static Rating | WT | | | |
|-----------------------|--------------------------------|-----------------|--------------|----------------|----------------------------|--------------------|------------------------|-----------------------------|------------------|----------------------------|---------------|------|------|----------------|
| With LUBRI-DISC Seals | Ball or Tapered Roller Bearing | Roller Diameter | Roller Width | Bore Diameter | | Endplate Extension | Min. Clamping Diameter | | | | lb/N | lb/N | lb/N | Bearing Weight |
| | | inch mm | inch mm | inch mm | | inch mm | | | | | lb/N | lb/N | lb/N | lb kg |
| (Ref) | (Ref) | Nom. | Tol. | (Ref) | (Ref) | | | | | | | | | |
| PCYR 3 | TRB | 3.00 76.2 | 1.75 44.5 | 1.000 25.40 | +0.0007 /-0 +0.02 / - 0 | 1.81 46.0 | 1.75 44.5 | 14,300 63,606 | 5,790 25,754 | 20,000 88,960 | 2.57 1.17 | | | |
| PCYR 3 1/2 | TRB | 3.50 88.9 | 2.00 50.8 | 1.125 28.58 | +0.0007 /-0 +0.02 / - 0 | 2.06 52.4 | 2.00 50.8 | 14,300 63,606 | 5,790 25,754 | 27,200 120,986 | 4.41 2.00 | | | |
| PCYR 4 | TRB | 4.00 101.6 | 2.25 57.2 | 1.250 31.75 | +0.0007 /-0 +0.02 / - 0 | 2.31 58.7 | 2.25 57.2 | 14,300 63,606 | 5,790 25,754 | 27,200 120,986 | 6.57 2.98 | | | |
| PCYR 4 1/2 | TRB | 4.50 114.3 | 1.75 44.5 | 1.000 25.40 | +0.0007 /-0 +0.02 / - 0 | 1.81 46.0 | 1.75 44.5 | 14,300 63,606 | 5,790 25,754 | 20,000 88,960 | 9.09 4.12 | | | |
| PCYR 5 | TRB | 5.00 127.0 | 3.75 95.3 | 1.750 44.45 | +0.0007 /-0 +0.02 / - 0 | 2.85 72.3 | 3.00 76.2 | 35,800 159,238 | 13,300 59,158 | 58,400 259,763 | 11.61 5.27 | | | |
| PCYR 6 | TRB | 6.00 152.4 | 3.25 82.6 | 2.250 57.15 | +0.0007 /-0 +0.02 / - 0 | 3.38 85.7 | 3.25 82.6 | 35,800 159,238 | 14,200 63,162 | 58,400 259,763 | 20.47 9.29 | | | |

*Dynamic thrust load rating based on application of a centric, axial load. Fatigue life calculations for combined radial and thrust loading require special considerations and Application Engineering should be contacted.

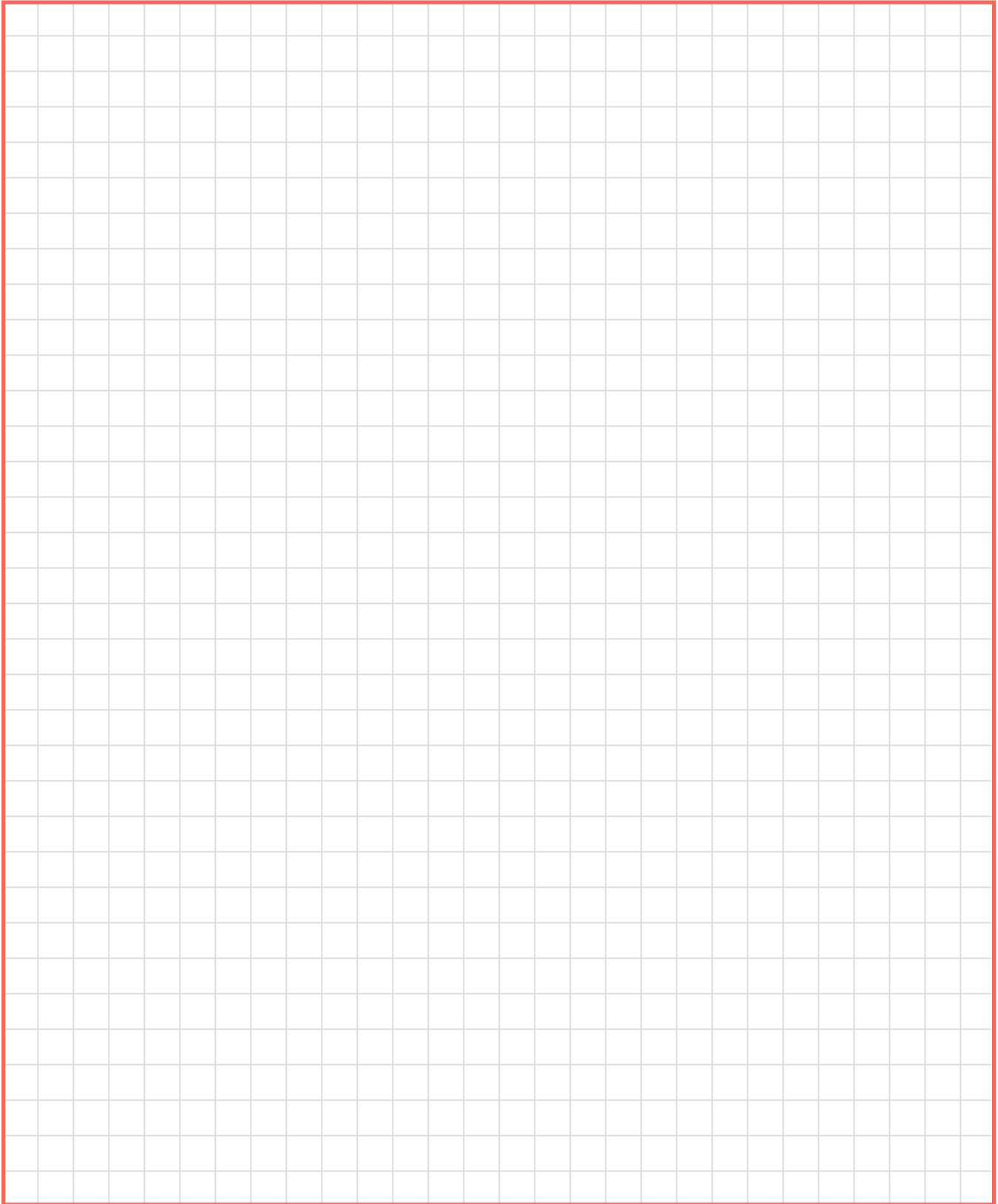
Metric dimensions for reference only.

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.



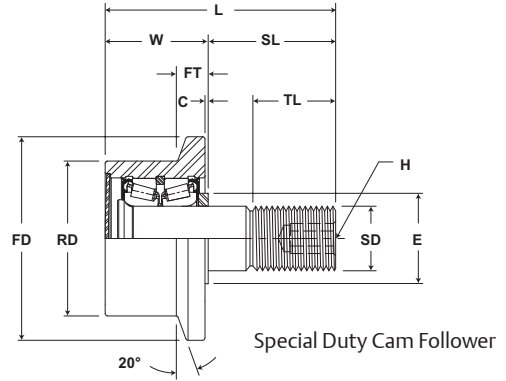
Cam Follower Engineering see page B-147.



MCGILL® TRAKROL Cam Follower Bearings



- Basic Construction Type:** Stud Type Flanged Outside Diameter
- Rolling Elements:** Ball or Tapered Roller Bearing Insert
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Metal Extension Plug and Rubber Lip Seal Ball Bearing with Additional NYLAPLATE Seal
- Lubrication:** Polyurea Thickened Grease NLGI #2
- Stem Configuration:** Concentric / Eccentric / Heavy Stud
- Mounting Feature:** Hex Hole on Thread Face



FCF

| Part No. | Insert Type | RD | W | FD | FT | SD | | SL | C | TL | L | Track Roller Dynamic Rating | Thrust Capacity | Track Roller Static Rating |
|-------------------------|--------------------------------|-----------------|----------------|---------------|-------------|---------------|----------------------------|---------------|--------------------|-----------------------|----------------|-----------------------------|------------------|----------------------------|
| With LUBRI-DISC Seals | Ball or Tapered Roller Bearing | Roller Diameter | Roller Width | Flange | | Stud Diameter | | Stud Length | Endplate Extension | Minimum Thread Length | Length Overall | | | |
| | | inch mm | inch mm | Diameter | Width | inch mm | inch mm | inch mm | inch mm | inch mm | | | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | Nom | Tol | (Ref) | (Ref) | (Ref) | (Ref) | | | |
| lb/N | lb/N | lb/N | | | | | | | | | | | | |
| FCF 1 1/2 FCFE 1 1/2 | BB | 1.50 38.1 | 1.188 30.16 | 2.19 55.6 | .34 8.7 | .625 15.9 | +0 / -0.001 +0 / - 0.03 | 1.50 38.1 | .06 1.6 | .75 19.1 | 2.69 68.3 | 2,520 11,209 | 1,320 5,871 | 1,370 6,094 |
| FCF 1 3/4 FCFE 1 3/4 | BB | 1.75 44.5 | 1.188 30.16 | 2.44 61.9 | .34 8.7 | .750 19.1 | +0 / -0.001 +0 / - 0.03 | 1.75 44.5 | .06 1.6 | .88 22.2 | 2.94 74.6 | 2,520 11,209 | 1,320 5,871 | 1,370 6,094 |
| FCF 2 1/2 FCFE 2 1/2 | BB | 2.50 63.5 | 1.688 42.86 | 3.19 81.0 | .59 15.1 | 1.00 25.4 | +0 / -0.001 +0 / - 0.03 | 2.25 57.2 | .06 1.6 | 1.50 38.1 | 3.94 100.0 | 5,120 22,774 | 2,680 11,921 | 3,120 13,878 |
| FCF 2 3/4 FCFE 2 3/4 | BB | 2.75 69.9 | 1.688 42.86 | 3.44 87.3 | .59 15.1 | 1.00 25.4 | +0 / -0.001 +0 / - 0.03 | 2.25 57.2 | .06 1.6 | 1.50 38.1 | 3.94 100.0 | 5,120 22,774 | 2,680 11,921 | 3,120 13,878 |
| FCF 3 FCFE 3 | TRB | 3.00 76.2 | 2.000 50.80 | 3.94 100.0 | .59 15.1 | 1.25 31.8 | +0 / -0.001 +0 / - 0.03 | 2.50 63.5 | .06 1.6 | 1.75 44.5 | 4.50 114.3 | 14,300 63,606 | 5,790 25,754 | 16,000 71,168 |
| FCF 3 1/4 FCFE 3 1/4 | TRB | 3.25 82.6 | 2.000 50.80 | 4.19 106.4 | .59 15.1 | 1.25 31.8 | +0 / -0.001 +0 / - 0.03 | 2.50 63.5 | .06 1.6 | 1.75 44.5 | 4.50 114.3 | 14,300 63,606 | 5,790 25,754 | 16,000 71,168 |
| FCF 3 1/2 FCFE 3 1/2 | TRB | 3.50 88.9 | 2.000 50.80 | 4.44 112.7 | .59 15.1 | 1.25 31.8 | +0 / -0.001 +0 / - 0.03 | 2.75 69.9 | .06 1.6 | 1.75 44.5 | 4.75 120.7 | 14,300 63,606 | 5,790 25,754 | 16,000 71,168 |
| FCF 4 FCFE 4 | TRB | 4.00 101.6 | 2.000 50.80 | 4.94 125.4 | .59 15.1 | 1.25 31.8 | +0 / -0.001 +0 / - 0.03 | 2.75 69.9 | .06 1.6 | 1.75 44.5 | 4.75 120.7 | 14,300 63,606 | 5,790 25,754 | 16,000 71,168 |
| FCF 4 1/2 | TRB | 4.50 114.3 | 2.000 50.80 | 5.44 138.1 | .59 15.1 | 1.25 31.8 | +0 / -0.001 +0 / - 0.03 | 2.75 69.9 | .06 1.6 | 1.75 44.5 | 4.75 120.7 | 14,300 63,606 | 5,790 25,754 | 16,000 71,168 |
| FCF 5 | TRB | 5.00 127.0 | 3.000 76.20 | 5.94 150.8 | .72 18.3 | 1.25 31.8 | +0 / -0.001 +0 / - 0.03 | 4.50 114.3 | .06 1.6 | 2.50 63.5 | 7.50 190.5 | 35,800 159,238 | 13,300 59,158 | 40,000 177,920 |
| FCF 6 | TRB | 6.00 152.4 | 3.000 76.20 | 6.94 176.2 | .72 18.3 | 2.50 63.5 | +0 / -0.001 +0 / - 0.03 | 5.50 139.7 | .06 1.6 | 3.25 82.6 | 8.50 215.9 | 35,800 159,238 | 14,200 63,162 | 62,000 275,776 |
| FCF 7 | TRB | 7.00 177.8 | 3.000 76.20 | 7.94 201.6 | .72 18.3 | 2.50 63.5 | +0 / -0.001 +0 / - 0.03 | 5.50 139.7 | .06 1.6 | 3.25 82.6 | 8.50 215.9 | 35,800 159,238 | 14,200 63,162 | 62,000 275,776 |
| FCF 8 | TRB | 8.00 203.2 | 3.000 76.20 | 8.94 227.0 | .72 18.3 | 2.50 63.5 | +0 / -0.001 +0 / - 0.03 | 5.50 139.7 | .06 1.6 | 3.25 82.6 | 8.50 215.9 | 35,800 159,238 | 14,200 63,162 | 62,000 275,776 |

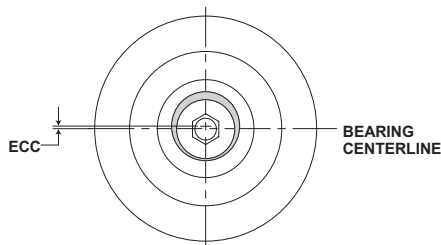
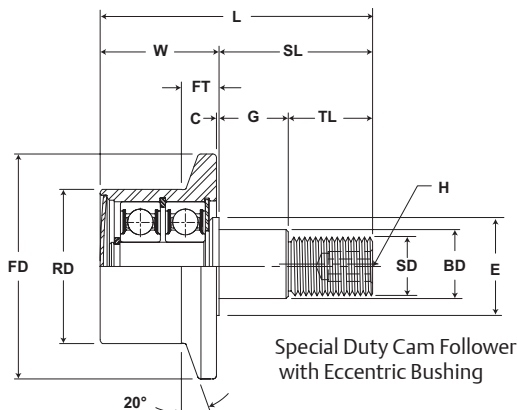
*Dynamic thrust load rating based on application of a centric, axial load. Fatigue life calculations for combined radial and thrust loading require special considerations and Application Engineering should be contacted.

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

TRAKROL Cam Follower Bearings **MCGILL**



FCF

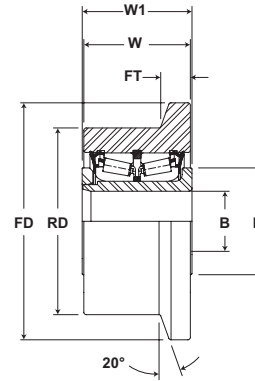
| Part No. | ECC | G | BD | H | E | Housing Bore Diameter | | Thread Type | Clamping Torque | WT | | | | | |
|------------|-----|-------|-------|------|------|-----------------------|----------|-------------|-----------------|-------|----------|------------------------|-------|----------|-------|
| | | | | | | Base Modifier | | | | | Hex Hole | Min. Clamping Diameter | (Ref) | in-lb Nm | lb kg |
| | | | | | | FCFE-XX | | | | | | | | | |
| | | | | | | (Ref) | +0/-.010 | | | | ±.001 | (Ref) | (Ref) | Nom. | Tol. |
| FCF 1 1/2 | - | - | - | .25 | .75 | .6260 | ±.0002 | 5/8-18 | 650 | .63 | | | | | |
| FCFE 1 1/2 | .03 | .730 | .875 | 6.4 | 19.1 | 15.900 | ±.005 | | | | 74 | 1.4 | | | |
| FCF 1 3/4 | - | - | - | .25 | 1.00 | .7510 | ±.0002 | 3/4-16 | 1,250 | 1.00 | | | | | |
| FCFE 1 3/4 | .03 | 0.855 | 1.000 | 6.4 | 25.4 | 19.075 | ±.005 | | | | 142 | .45 | | | |
| FCF 2 1/2 | - | - | - | .44 | 1.25 | 1.0010 | ±.0002 | 1-14 | 2,240 | 2.75 | | | | | |
| FCFE 2 1/2 | .03 | 1.105 | 1.375 | 11.1 | 31.8 | 25.425 | ±.005 | | | | 254 | 1.25 | | | |
| FCF 2 3/4 | - | - | - | .44 | 1.25 | 1.0010 | ±.0002 | 1-14 | 2,240 | 3.25 | | | | | |
| FCFE 2 3/4 | .03 | 1.105 | 1.375 | 11.1 | 31.8 | 25.425 | ±.005 | | | | 254 | 1.47 | | | |
| FCF 3 | - | - | - | .44 | 1.75 | 1.2510 | ±.0002 | 1 1/4-12 | 3,440 | 4.69 | | | | | |
| FCFE 3 | .06 | 1.230 | 1.750 | 11.1 | 44.5 | 31.775 | ±.005 | | | | 388 | 2.13 | | | |
| FCF 3 1/4 | - | - | - | .44 | 1.75 | 1.2510 | ±.0002 | 1 1/4-12 | 3,440 | 5.42 | | | | | |
| FCFE 3 1/4 | .06 | 1.230 | 1.750 | 11.1 | 44.5 | 31.775 | ±.005 | | | | 388 | 2.46 | | | |
| FCF 3 1/2 | - | - | - | .44 | 1.75 | 1.2510 | ±.0002 | 1 1/4-12 | 3,440 | 6.25 | | | | | |
| FCFE 3 1/2 | .06 | 1.355 | 1.812 | 11.1 | 44.5 | 31.775 | ±.005 | | | | 388 | 2.83 | | | |
| FCF 4 | - | - | - | .44 | 1.75 | 1.2510 | ±.0002 | 1 1/4-12 | 3,440 | 7.94 | | | | | |
| FCFE 4 | .06 | 1.355 | 1.812 | 11.1 | 44.5 | 31.775 | ±.005 | | | | 388 | 3.60 | | | |
| FCF 4 1/2 | - | - | - | .44 | 1.75 | 1.2510 | ±.0002 | 1 1/4-12 | 3,440 | 9.88 | | | | | |
| FCFE 4 1/2 | .06 | 1.355 | 1.812 | 11.1 | 44.5 | 31.775 | ±.005 | | | | 388 | 4.48 | | | |
| FCF 5 | - | - | - | .88 | 3.25 | 2.0010 | ±.0002 | 2-12 | 5,000 | 18.50 | | | | | |
| FCFE 5 | .06 | 1.355 | 1.812 | 22.2 | 82.6 | 50.825 | ±.005 | | | | 566 | 8.39 | | | |
| FCF 6 | - | - | - | .88 | 3.25 | 2.5010 | ±.0002 | 2 1/2-12 | 5,000 | 30.00 | | | | | |
| FCFE 6 | .06 | 1.355 | 1.812 | 22.2 | 82.6 | 63.525 | ±.005 | | | | 566 | 13.61 | | | |
| FCF 7 | - | - | - | .88 | 3.25 | 2.5010 | ±.0002 | 2 1/2-12 | 5,000 | 38.00 | | | | | |
| FCFE 7 | .06 | 1.355 | 1.812 | 22.2 | 82.6 | 63.525 | ±.005 | | | | 566 | 17.24 | | | |
| FCF 8 | - | - | - | .88 | 3.25 | 2.5010 | ±.0002 | 2 1/2-12 | 5,000 | 49.00 | | | | | |
| FCFE 8 | .06 | 1.355 | 1.812 | 22.2 | 82.6 | 63.525 | ±.005 | | | | 566 | 22.23 | | | |

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

MCGILL® TRAKROL Cam Follower Bearings



- Basic Construction Type:** Yoke Type Flanged Outside Diameter
- Rolling Elements:** Tapered Roller Bearing Insert
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Rubber Lip Seal
- Lubrication:** Polyurea Thickened Grease NLGI #2



FCYR

| Part No. | Insert Type | RD | W | FD | FT | B | | W1 | E | Track Roller Dynamic Rating | Thrust Capacity | Track Roller Static Rating | WT | | |
|------------|-------------|---------------|--------------|---------------|-------------|----------------|-----------------------------|--------------|--------------|-----------------------------|------------------|----------------------------|---------------|---------------|---------|
| | | | | | | Flange | | | | | | | | Bore Diameter | |
| | | | | | | Diameter | Width | | | | | | | Bore Diameter | |
| | | | | | | inch mm | inch mm | | | | | | | inch mm | inch mm |
| (Ref) | (Ref) | (Ref) | (Ref) | Norm. | Tol. | (Ref) | (Ref) | lb/N | lb/N | lb/N | lb kg | | | | |
| FCYR 3 | TRB | 3.00 76.2 | 1.75 44.5 | 3.94 100.0 | .59 15.1 | 1.000 25.40 | +0.0007 / -0 +0.02 / - 0 | 1.81 46.0 | 1.75 44.5 | 14,300 63,606 | 5,790 25,754 | 20,000 88,960 | 3.28 1.49 | | |
| FCYR 3 1/4 | TRB | 3.25 82.6 | 1.75 44.5 | 4.19 106.4 | .59 15.1 | 1.000 25.40 | +0.0007 / -0 +0.02 / - 0 | 1.81 46.0 | 1.75 44.5 | 14,300 63,606 | 5,790 25,754 | 20,000 88,960 | 3.93 1.78 | | |
| FCYR 3 1/2 | TRB | 3.50 88.9 | 2.00 50.8 | 4.44 112.7 | .59 15.1 | 1.125 28.58 | +0.0007 / -0 +0.02 / - 0 | 2.06 52.4 | 2.00 50.8 | 14,300 63,606 | 5,790 25,754 | 27,200 120,986 | 4.97 2.25 | | |
| FCYR 4 | TRB | 4.00 101.6 | 2.25 57.2 | 4.94 125.4 | .59 15.1 | 1.250 31.75 | +0.0007 / -0 +0.02 / - 0 | 2.31 58.7 | 2.25 57.2 | 14,300 63,606 | 5,790 25,754 | 27,200 120,986 | 7.39 3.35 | | |
| FCYR 4 1/2 | TRB | 4.50 114.3 | 1.75 44.5 | 5.44 138.1 | .59 15.1 | 1.000 25.40 | +0.0007 / -0 +0.02 / - 0 | 1.81 46.0 | 1.75 44.5 | 14,300 63,606 | 5,790 25,754 | 20,000 88,960 | 10.19 4.62 | | |
| FCYR 5 | TRB | 5.00 127.0 | 3.75 95.3 | 5.94 150.8 | .72 18.3 | 1.750 44.45 | +0.0007 / -0 +0.02 / - 0 | 2.85 72.3 | 3.00 76.2 | 35,800 159,238 | 13,300 59,158 | 58,400 259,763 | 12.99 5.89 | | |
| FCYR 6 | TRB | 6.00 152.4 | 3.25 82.6 | 6.94 176.2 | .72 18.3 | 2.250 57.15 | +0.0007 / -0 +0.02 / - 0 | 3.38 85.7 | 3.25 82.6 | 35,800 159,238 | 14,200 63,162 | 58,400 259,763 | 20.04 9.09 | | |

*Dynamic thrust load rating based on application of a centric, axial load. Fatigue life calculations for combined radial and thrust loading require special considerations and Application Engineering should be contacted.

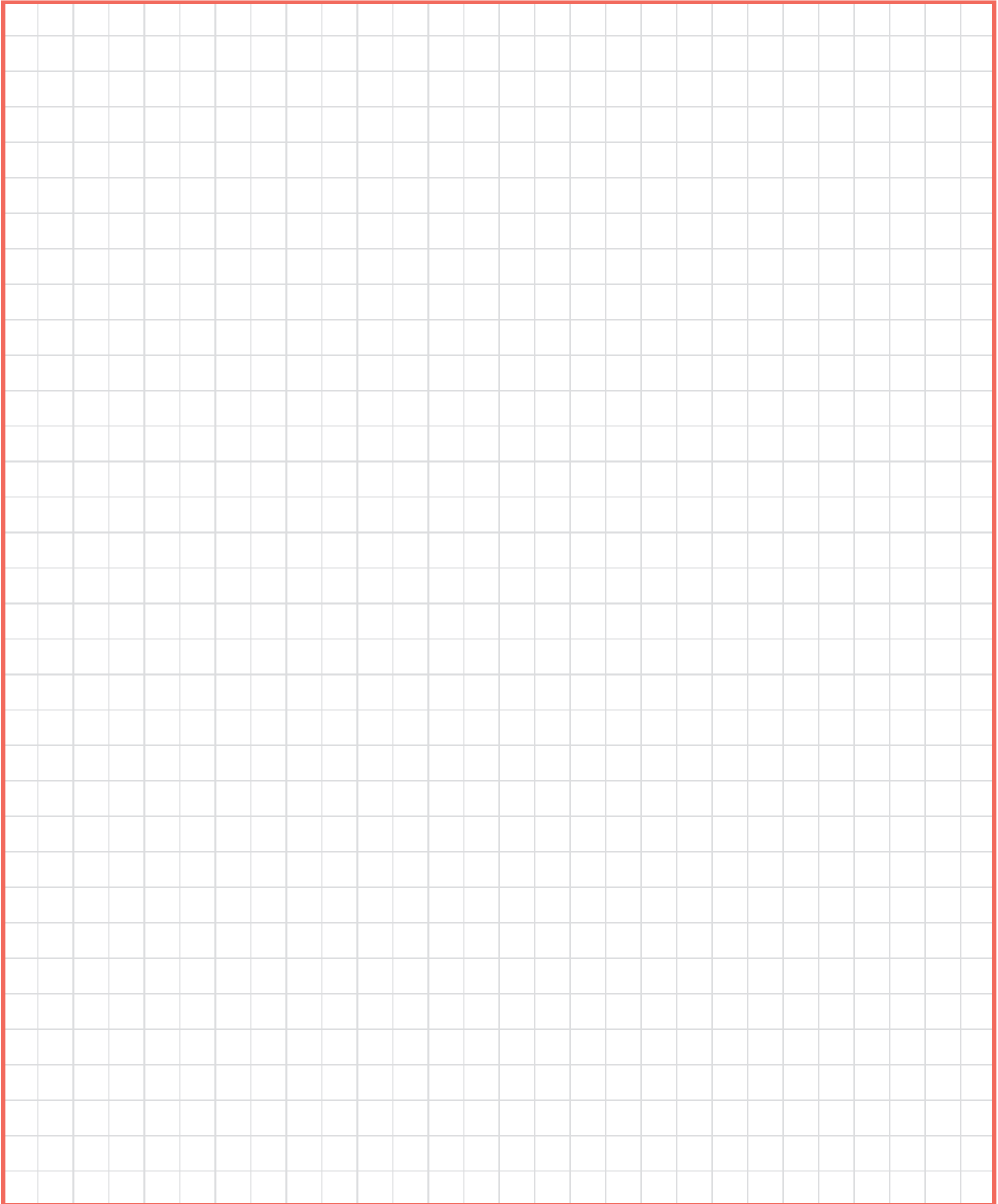
Metric dimensions for reference only.

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.



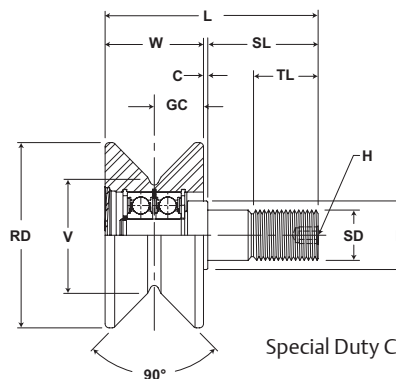
Cam Follower Engineering see page B-147.



MCGILL® TRAKROL Cam Follower Bearings



- Basic Construction Type:** Stud Type V-Grooved Outside Diameter
- Rolling Elements:** Ball or Tapered Roller Bearing Insert
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Metal Extension Plug and Rubber Lip Seal Ball
- Lubrication:** Polyurea Thickened Grease NLGI #2
- Stem Configuration:** Concentric / Eccentric
- Mounting Feature:** Hex Hole on Thread Face



Special Duty Cam Follower

VCF

| Part No. | Insert Type | RD | W | V | GC | SD | | SL | C | L | | ECC | G | BD |
|-----------------------|--------------------------------|-----------------|--------------|----------------|---------------|---------------|------------------------|-------------|--------------------|----------------|---------------|---------------------------------|-----------|-------|
| With LUBRI-DISC Seals | Ball or Tapered Roller Bearing | Roller Diameter | Roller Width | Point Diameter | Groove Center | Stud Diameter | | Stud Length | Endplate Extension | Length Overall | Thread Length | Eccentric Base Modifier VCFE-XX | | |
| | | inch mm | inch mm | inch mm | inch mm | inch mm | | inch mm | inch mm | inch mm | inch mm | inch mm | | |
| | | (Ref) | (Ref) | (Ref) | (Ref) | Nom. | Tol. | (Ref) | (Ref) | (Ref) | (Ref) | (Ref) | +0/- .010 | ±.001 |
| VCF 2 1/2 | BB | 2.50 63.5 | 1.31 33.3 | 1.50 38.1 | .69 17.5 | 1.00 25.4 | +0/-0.001 +0/- 0.03 | 1.75 44 | 0.06 2 | 2.94 75 | 0.88 22 | - | - | - |
| VCFE 2 1/2 | | .03 1 | .86 22 | 1.00 25 | | | | | | | | | | |
| VCF 3 1/2 | BB | 3.50 88.9 | 1.69 42.9 | 2.25 57.2 | .88 22.2 | 1.25 31.8 | +0/-0.001 +0/- 0.03 | 2.00 51 | 0.06 2 | 3.69 94 | 1.13 29 | - | - | - |
| VCFE 3 1/2 | | .03 1 | .98 25 | 1.19 30 | | | | | | | | | | |
| VCF 4 1/2 | TRB | 4.50 114.3 | 2.00 50.8 | 3.00 76.2 | 1.00 25.4 | 1.25 31.8 | +0/-0.001 +0/- 0.03 | 2.50 64 | 0.06 2 | 4.50 114 | 1.75 44 | - | - | - |
| VCFE 4 1/2 | | .06 2 | 1.23 31 | 1.75 44 | | | | | | | | | | |
| VCF 5 1/2 | TRB | 5.50 139.7 | 2.00 50.8 | 4.00 101.6 | 1.00 25.4 | 1.25 31.8 | +0/-0.001 +0/- 0.03 | 2.75 70 | 0.06 2 | 4.75 121 | 1.75 44 | - | - | - |
| VCFE 5 1/2 | | .06 2 | 1.36 34 | 1.81 46 | | | | | | | | | | |
| VCF 6 1/2 | TRB | 6.50 165.1 | 3.00 76.2 | 5.00 127.0 | 1.50 38.1 | 2.00 50.8 | +0/-0.001 +0/- 0.03 | 4.50 114 | 0.06 2 | 7.50 191 | 2.50 64 | - | - | - |
| VCF 7 1/2 | TRB | 7.50 190.5 | 3.00 76.2 | 6.00 152.4 | 1.50 38.1 | 2.50 63.5 | +0/-0.001 +0/- 0.03 | 5.50 140 | 0.06 2 | 8.50 216 | 3.25 83 | - | - | - |
| VCF 8 1/2 | TRB | 8.50 215.9 | 3.00 76.2 | 7.00 177.8 | 1.50 38.1 | 2.50 63.5 | +0/-0.001 +0/- 0.03 | 5.50 140 | 0.06 2 | 8.50 216 | 3.25 83 | - | - | - |

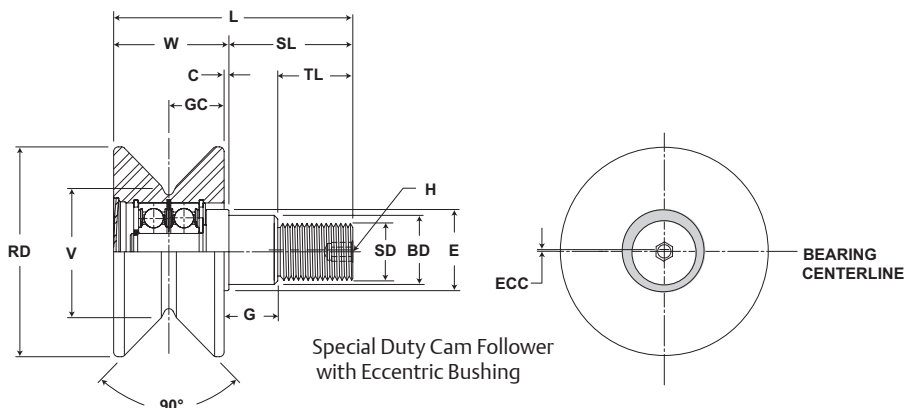
*Dynamic thrust load rating based on application of a centric, axial load. Fatigue life calculations for combined radial and thrust loading require special considerations and Application Engineering should be contacted.

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.

TRAKROL Cam Follower Bearings **McGILL**



VCF

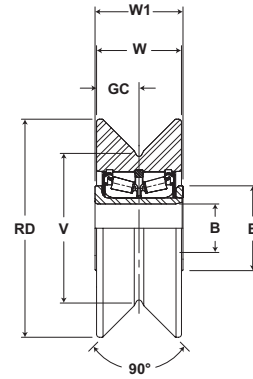
| Track Roller Dynamic Rating | Thrust Capacity | Track Roller Static Rating | H | E | Housing Bore Diameter | | Thread Type | Clamping Torque | WT |
|-----------------------------|------------------|----------------------------|-----------|------------------------|-----------------------|----------------------------------|-------------|-----------------|----------------|
| | | | Hex Hole | Min. Clamping Diameter | | | | | Bearing Weight |
| | | | inch mm | inch mm | Nom. | Tol. | | in-lb Nm | lb kg |
| 2,520 11,209 | 1,320 5,871 | 1,370 6,094 | .25 6 | 1.0 25 | .7510 19 | +0.002/-0.003 +0.0005/-0.0008 | 3/4-16 | 1,250 142 | 1.3 .59 |
| | | | | | 1.003 25.47 | ±.001 ±.025 | | | |
| 3,490 15,524 | 1,830 8,140 | 2,000 8,896 | .38 10 | 1.0 25 | .8760 22 | +0.002/-0.003 +0.0005/-0.0010 | 7/8-14 | 1,500 170 | 3.2 1.45 |
| | | | | | 1.190 30.23 | ±.001 ±.025 | | | |
| 14,300 63,606 | 5,790 25,754 | 16,000 71,168 | .44 11 | 1.75 44 | 1.2510 32 | +0.002/-0.003 +0.0005/-0.0013 | 1 1/4-12 | 3,440 388 | 6.8 3.08 |
| | | | | | 1.753 44.52 | ±.001 ±.025 | | | |
| 14,300 63,606 | 5,790 25,754 | 16,000 71,168 | .44 11 | 1.75 44 | 1.2510 32 | +0.002/-0.003 +0.0005/-0.0015 | 1 1/4-12 | 3,440 388 | 10.7 4.85 |
| | | | | | 1.815 46.10 | ±.001 ±.025 | | | |
| 35,800 159,238 | 13,300 59,158 | 40,000 177,920 | .88 22 | 3.25 83 | 2.0010 51 | +0.002/-0.003 +0.0005/-0.0017 | 2-12 | 5,000 566 | 26.1 11.84 |
| 35,800 159,238 | 14,200 63,162 | 62,000 275,776 | .88 22 | 3.25 83 | 2.5010 64 | +0.002/-0.003 +0.0005/-0.0018 | 2 1/2-12 | 5,000 566 | 34.0 15.42 |
| 35,800 159,238 | 14,200 63,162 | 62,000 275,776 | .88 22 | 3.25 83 | 2.5010 64 | +0.002/-0.003 +0.0005/-0.0019 | 2 1/2-12 | 5,000 566 | 45.0 20.41 |

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

McGILL® TRAKROL Cam Follower Bearings



- Basic Construction Type:** Yoke Type V-Grooved Outside Diameter
- Rolling Elements:** Tapered Roller Bearing Insert
- Bearing Material:** Bearing Quality Steel
- Seal Type:** Rubber Lip Seal
- Lubrication:** Polyurea Thickened Grease NLGI #2



VCYR

| Part No. | Insert Type | RD | W | V | GC | B | | W1 | E | Track Roller Dynamic Rating | Thrust Capacity | Track Roller Static Rating | WT | | | |
|-----------------------|--------------------------------|-----------------|--------------|----------------|---------------|-----------------|-------------------------|--------------------|------------------------|-----------------------------|------------------|----------------------------|----------------|------|------|----------------|
| With LUBRI-DISC Seals | Ball or Tapered Roller Bearing | Roller Diameter | Roller Width | Point Diameter | Groove Center | Bore Diameter | | Endplate Extension | Min. Clamping Diameter | | | | lb/N | lb/N | lb/N | Bearing Weight |
| | | inch mm | | inch mm | | inch mm | | inch mm | | | | | | | | lb |
| | | (Ref) | (Ref) | (Ref) | (Ref) | Nom | Tol | (Ref) | (Ref) | | | | | | | |
| VCYR 4 1/2 | TRB | 4.50 114 | 1.75 44 | 3.00 76 | 1.00 25 | 1.0000 25.40 | +0.0007/-0 +0.02/- 0 | 1.81 46 | 1.75 44 | 14,300 63,606 | 5,790 25,754 | 20,000 88,960 | 4.98 2.26 | | | |
| VCYR 5 1/2 | TRB | 5.50 140 | 2.25 57 | 4.00 102 | 1.00 25 | 1.2500 31.75 | +0.0007/-0 +0.02/- 0 | 2.31 59 | 2.25 57 | 14,300 63,606 | 5,790 25,754 | 27,100 120,541 | 11.11 5.03 | | | |
| VCYR 6 1/2 | TRB | 6.50 165 | 2.75 70 | 5.00 127 | 1.50 38 | 1.7500 44.45 | +0.0007/-0 +0.02/- 0 | 2.88 73 | 3.00 76 | 35,800 159,238 | 13,300 59,158 | 56,200 249,978 | 24.72 11.21 | | | |

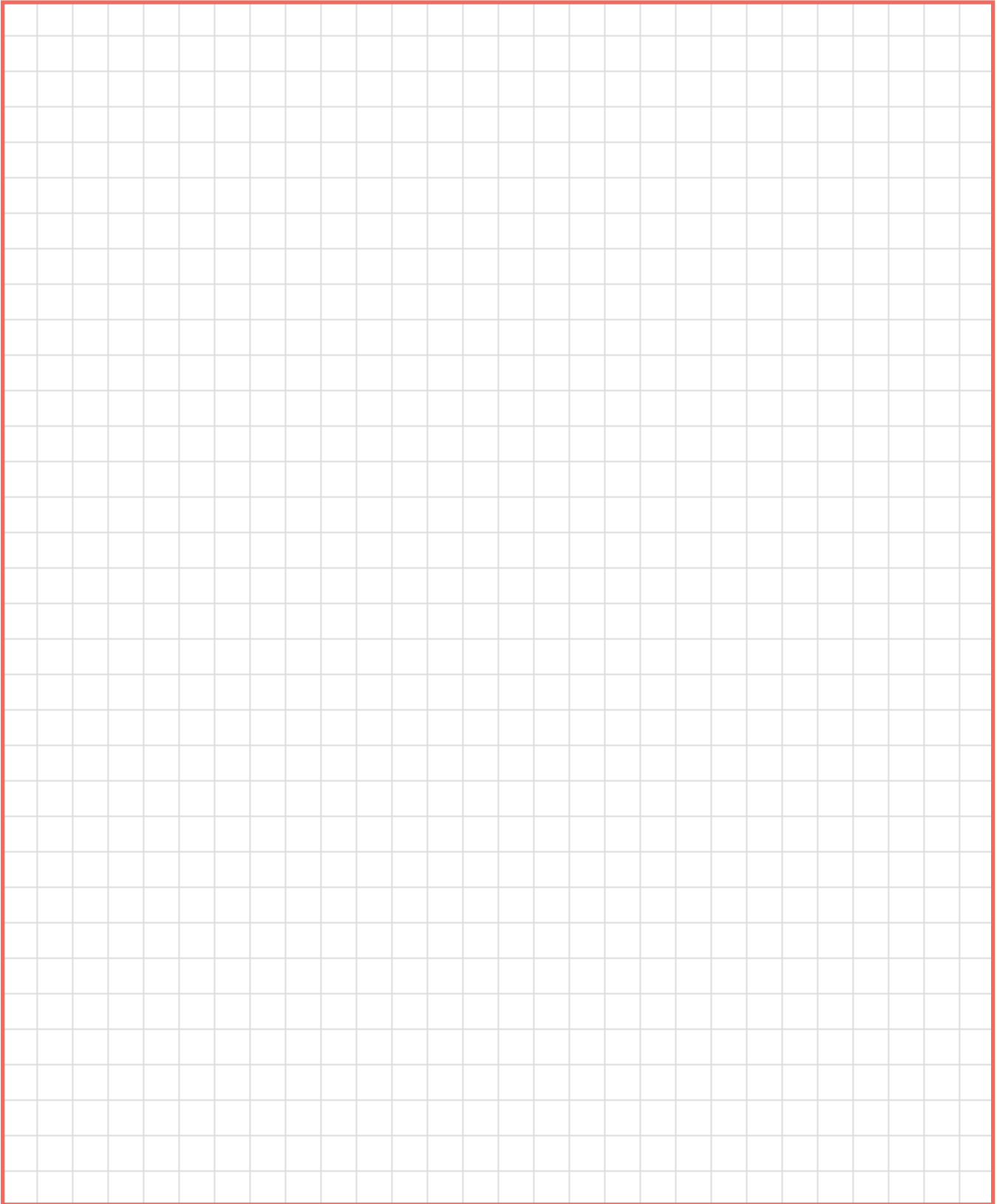
*Dynamic thrust load rating based on application of a centric, axial load. Fatigue life calculations for combined radial and thrust loading require special considerations and Application Engineering should be contacted.

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.

Cam Follower Engineering see page B-147.



Load Ratings and Life

Life Calculations

The L₁₀ (rating) life for any given application and bearing selection can be calculated in terms of millions of revolutions by using the bearing Basic Dynamic Rating and applied radial load (or, equivalent radial load in the case of radial bearing applications having combined radial and thrust loads). The L₁₀ life for any given application can be calculated in terms of hours, using the bearing Basic Dynamic Rating, applied load (or equivalent radial load) and suitable speed factors, by the following equation:

$$L_{10} = \left(\frac{C}{P}\right) \times \frac{1,000,000}{60 \times n} = \left(\frac{C}{P}\right)^{10/3} \times \frac{16667}{n}$$

Where:

L₁₀ = The # of hours that 90% of identical bearings under ideal conditions will operate at a specific speed and condition before fatigue is expected to occur.

C = Basic Dynamic Rating (lbs)
1,000,000 Revolutions

P = Constant Equivalent Radial Load (lbs)

n = Speed (RPM)

Additionally, the ABMA provides application factors for all types of bearings which need to be considered to determine an adjusted Rated Life (L_{na}). L₁₀ life rating is based on laboratory conditions yet other factors are encountered in actual bearing application that will reduce bearing life. L_{na} life rating takes into account reliability factors, material type, and operating conditions.

$$L_{na} = a_1 \times a_2 \times a_3 \times L_{10}$$

Where:

L_{na} = Adjusted Rated Life.

a₁ = Reliability Factor. Adjustment factor applied where estimated fatigue life is based on reliability other than 90% (See Table No 1).

Table No. 1 Life Adjustment Factor for Reliability

| Reliability % | L _{na} | a ₁ |
|---------------|-----------------|----------------|
| 90 | L ₁₀ | 1 |
| 95 | L ₅ | 0.62 |
| 96 | L ₄ | 0.53 |
| 97 | L ₃ | 0.44 |
| 98 | L ₂ | 0.33 |
| 99 | L ₁ | 0.21 |
| 50 | L ₅₀ | 5 |

a₂ = Material Factor. Life adjustment for bearing race material. Power Transmission Solutions bearing races are manufactured from bearing quality steel. Therefore the a₂ factor is 1.0.

a₃ = Life Adjustment Factor for Operating Conditions. This factor should take into account the adequacy of lubricant, presence of foreign matter, conditions causing changes in material properties, and unusual loading or mounting conditions. Assuming a properly selected and mounted bearing having adequate seals and lubricant, the a₃ factor should be 1.0.

Load Ratings and Life Continued

Vibration and shock loading can act as an additional loading to the steady expected applied load. When shock or vibration is present, an a3 Life Adjustment Factor can be applied. Shock loading has many variables which often are not easily determined. Typically, it is best to rely on one's experience with the particular application. Consult Application Engineering for assistance with applications involving shock or vibration loading.

The a3 factor takes into account a wide range of application and mounting conditions as well as bearing features and design. Accurate determination of this factor is normally achieved through testing and in-field experience. Power Transmission Solutions offers a wide range of options which can maximize bearing performance. Consult Application Engineering for more information.

Variable Load Formula

Root mean load (RML) is to be used when a number of varying loads are applied to a bearing for varying time limits. Maximum loading still must be considered for bearing size selection.

$$RML^* = \sqrt[10/3]{\frac{(L_1^{10/3} N_1) + (L_2^{10/3} N_2) + (L_3^{10/3} N_3)}{100}}$$

Where:

RML = Root Mean Load (lbs.)

L₁, L₂, etc. = Load in pounds

N₁, N₂, etc. = Percent of total time operated at loads L₁, L₂, etc.

* Apply RML to rating at mean speed to determine resultant life.

Mean Speed Formula

The following formula is to be used when operating speed varies over time.

$$\text{Mean Speed} = \frac{S_1 N_1 + S_2 N_2 + S_3 N_3}{100}$$

S₁, S₂, etc = Speeds in RPM

N₁, N₂, etc = Percentage of total time operated at speeds S₁, S₂, etc

Load Ratings and Life Continued

Bearing Life In Oscillating Applications

The equivalent rotative speed (ERS) is used in life calculations when the bearing does not make complete revolutions during operation. The ERS is then used as the bearing operating speed in the calculation of the L10 (Rating) Life. The formula is based on sufficient angular rotation to have roller paths overlap.

$$\begin{aligned} \text{ERS} &= \text{Equivalent Rotative Speed} \\ \text{N} &= \text{Total number of degrees per minute through} \\ &\quad \text{which the bearing will rotate.} \\ \text{ERS} &= \frac{\text{N}}{360} \end{aligned}$$

In the above formula, allowance is made for the total number of stress applications on the weakest race per unit time, which, in turn, determines fatigue life and the speed factors. The theory behind fretting corrosion is best explained by the fact that the rolling elements in small angles of oscillation retrace a path over an unchanging area of the inner or outer races where the lubricant is prevented by inertia from flowing in behind the roller as the bearing oscillates in one direction. Upon reversal, this small area of rolling contact is traversed by the same roller in the dry state. The friction of the two unlubricated surfaces causes fretting corrosion and produces failures which are unpredictable from a normal life standpoint.

With a given bearing selected for an oscillating application, the best lubrication means is a light mineral oil under positive flow conditions. With a light oil, there is a tendency for all areas in the bearing load zone to be immersed in lubricant at all times. The full flow lubrication dictates that any oxidized material which may form is immediately carried away by the lubricant, and since these oxides are abrasive, further wear tends to be avoided. If grease lubrication must be used, it is best to consult with either the bearing manufacturer or the lubricant manufacturer to determine the best possible type of lubricant. Greases have been compounded to resist the detrimental effect of fretting corrosion for such applications.

Static Load Rating

The “static load rating” for rolling element bearings is that uniformly distributed static radial load acting on a non-rotating bearing, which produces a contact stress of 580,000 psi (roller bearings) or 607,000 psi (ball bearings) at the center of the most heavily loaded rolling element. At this stress level, plastic deformation begins to be significant. Experience has shown that the plastic deformation at this stress level can be tolerated in most bearing applications without impairment of subsequent bearing operation. In certain applications where subsequent rotation of the bearing is slow and where smoothness and friction requirements are not too exacting, a higher static load limit can be tolerated. Where extreme smoothness is required or friction requirements are critical, a lower static load limit may be necessary.

Minimum Bearing Load

Skidding, or sliding, of the rolling elements on the raceway instead of a true rolling motion can cause excessive wear. Applications with high speeds and light loading are particularly prone to skidding. As a general guideline, rolling element bearings should be radially loaded at least 2% of Basic Dynamic Rating. For applications where load is light relative to the bearings dynamic load rating, consult Application Engineering for assistance.



Load Ratings and Life Continued

Bushing Type Cam Follower/ Yoke Roller

Because bushing type bearings operate with sliding motion instead of rolling motion, they do not follow standard bearing life theory. Instead, life is based on an acceptable wear rate based on operating load and speed for the given bearing size. The following chart and examples are provided to aid in selection of bushing type cam followers

To determine maximum bearing capacity at a given speed, read vertical load scale under basic bearing size under consideration at proper speed.

Example:

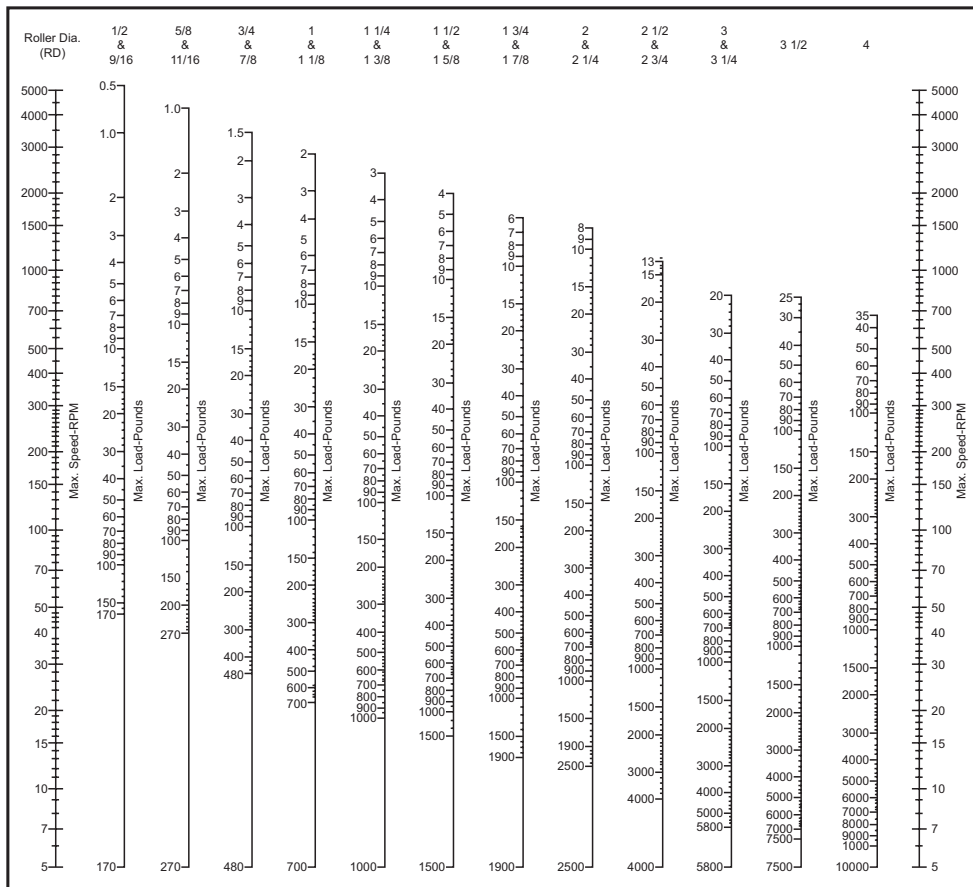
Determine load capacity of BCF-3/4-S at 100 RPM. Read down vertical load scale under basic 3/4 size to intersection of horizontal line for maximum speed of 100 RPM. Load rating would be 100 pounds.

To determine minimum bearing size required for application, draw horizontal line through application speed until application load can be read on one of the vertical load scales. The basic bearing size can then be read at the top of the column.

Example:

- Application speed = 200 RPM
- Application load = 50 pounds

Minimum basic bearing size required would be a BCF or BCYR - 1 1/4-S.



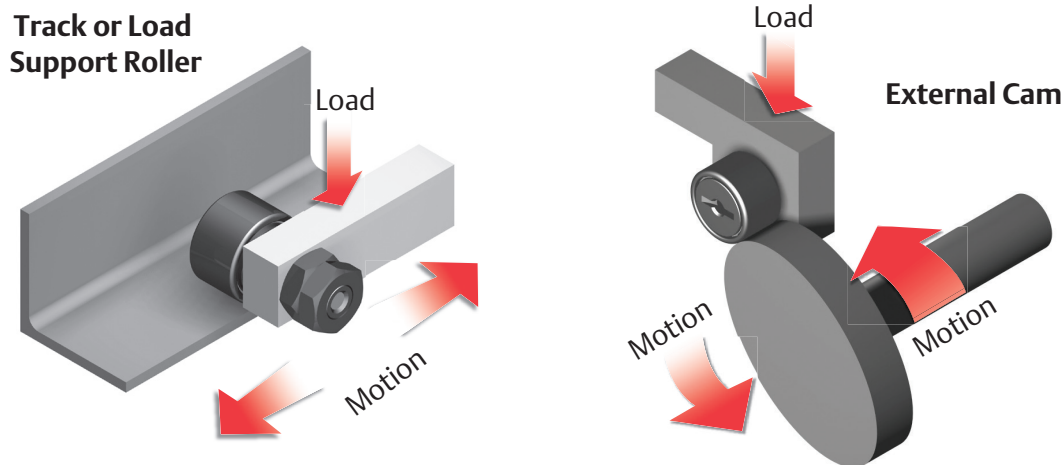
Values based on continuous rotation and no lubrication

Cam Follower Engineering Section

Load Ratings

ABMA and ISO Dynamic and Static Load Ratings, when listed, follow standard calculations as accepted by ABMA and ISO. These ratings are based on a bearing that is fully supported within a rigid housing. Cam follower and track roller bearings generally operate with an unsupported outer ring in rolling contact with a cam or track. As such, these standard ratings cannot be applied. ABMA and ISO dynamic and static load ratings when listed in the dimension tables for cam follower and track roller bearings are therefore provided for comparison only.

When listed, Track Roller Dynamic Load Rating is to be used for the purpose of bearing size selection or theoretical bearing life calculation. The track roller rating considers the unsupported outer ring condition of the cam follower or track roller bearing design. The Maximum Permissible Load as listed considers stud strength. Static loads should not exceed the Maximum Permissible Load.



Track Roller Static Load Rating as listed considers internal rolling element contact stress. Static loads greater than the Static Rating may impair subsequent dynamic operations.

Load Considerations

In any bearing application, radial, shock and thrust loads must be taken into consideration to help assure successful performance.

Radial Load

Maximum dynamic radial load should not exceed 50% of Basic Dynamic Rating. If radial load and/or root mean load exceed 50% of Basic Dynamic Rating, life calculations must be reviewed by Application Engineering. If dynamic radial loads exceed 25% of Basic Dynamic Rating, consideration should be given to use of heavy stud option (CFH series) or yoke type (CYR, CYR-CR, CYRD, MCYR, MCYRD series). Applications involving reversing radial loads should be reviewed by Application Engineering.

Cam Follower Engineering Section continued

Shock Load

The load ratings in this catalog are based on uniform and steady loading. When the loading is of a shock nature and/or vibration is present, or the loading is indeterminate, a bearing of greater rating must be selected. If such conditions exist, it is advisable to use the Load Factor as shown in the table below. The actual bearing load should be multiplied by the appropriate load factor and the resultant value used to calculate the bearing life or to determine the required Basic Dynamic Rating as described in the General Engineering Section.

| Type of Load | Load Factor |
|----------------------|-------------|
| Uniform and Constant | 1.0 |
| Light Shock | 1.5 |
| Moderate Shock | 2.0 |
| Heavy Shock | 3.0 |

Thrust Load Series CF, CFH, CYR, BCF, BCYR, CF-CR, CYR-CR, SDCF, SDMCF, MCF, MCYR

Designed for radial loads, these series' bearings do not have design features that help them to support thrust loading. Therefore, these cam followers and track rollers should be mounted to minimize, or preferably eliminate, the possibility of any thrust loading on the outer ring.

Series CFD, CYRD, MCFD, MCYRD

These series provide improved thrust capability versus the above needle rolling element and bushing type designs. They are designed using a double row of full complement cylindrical rolling elements. Their construction helps to support incidental thrust sometimes associated with cam follower and track roller applications.

Series PCF, FCF, VCF, PCYR, FCYR, VCYR

These series use radial ball and tapered roller bearing assemblies. These constructions make possible successful bearing operation with various combinations of radial and thrust loads. Refer to dimension tables for specific thrust load ratings.

Track Design

Since either cam followers or cam yoke rollers are merely one component of a two-piece bearing construction involving (1) the cam follower or cam yoke roller and (2) the track or cam on which it operates, some consideration must be given to selection of track or cam materials, since they must be considered bearing components and have a direct effect upon ultimate life and performance of the cam roll application. From the standpoint of track design where bearings are used as support or guide rollers, it is often difficult to obtain high hardness and tensile strength values for the machine members against which the bearings operate. In most applications, in the interest of economy, relatively soft structural materials can be applied. Where dimensional accuracy is not extremely critical, the work hardening of ferrous, low carbon track materials, accompanied by relatively small amounts of wear-in of the bearing into the track surface generally results in satisfactory bearing performance. It is common, for instance, in the application of cam follower or cam yoke roller bearings as lift truck mast rollers to employ formed structural steel sections as bearing track support members. The wearing-in and work hardening of the track surface generally results in a satisfactory bearing application, providing loads are not excessive.

Cam Follower Engineering Section continued

Track Capacity

Track capacity of all cam followers and cam yoke roller bearings is the load which a steel track of a given tensile strength will withstand without plastic deformation or brinelling of the track surface. The following tables list track capacities and track capacity factors for steel tracks, as applied to all cam follower and cam yoke roller bearings except crowned O.D. versions. For the crowned O.D. versions, multiply by 0.8 to obtain the track capacity ratings.

To obtain track capacities for a track hardness other than 40 Rockwell “C” scale (180,000 psi or 1242 Mpa tensile strength), multiply the track capacity by the track capacity factor in Table 1. Regardless of the resulting track capacity, dynamic load should not exceed 50% of the dynamic rating as a track roller and static load should not exceed the static rating as a track roller for that bearing.

Table 1 - Track Capacity Factor

| Track Tensile Strength, psi | Track Tensile Strength, MPa | Track Hardness Rockwell “C” | Track Capacity Factor |
|-----------------------------|-----------------------------|-----------------------------|-----------------------|
| 60,000 | | 69 | 0.111 |
| 80,000 | | 85 | 0.198 |
| 100,000 | | 95 | 0.309 |
| 120,000 | 828 | 26 | 0.445 |
| 140,000 | 966 | 32 | 0.607 |
| 160,000 | 1104 | 36 | 0.792 |
| 180,000 | 1242 | 40 | 1.000 |
| 200,000 | 1380 | 44 | 1.237 |
| 220,000 | 1518 | 47 | 1.495 |
| 240,000 | 1656 | 50 | 1.775 |
| 260,000 | 1794 | 53 | 2.090 |
| 280,000 | 1932 | 56 | 2.420 |
| 300,000 | 2070 | 58 | 2.780 |

Table 2 - Track Capacity, Inch Series Bearings

| Basic Bearing Number | Track Capacity Lbs. | Basic Bearing Number | Track Capacity Lbs. |
|----------------------|---------------------|----------------------|---------------------|
| 1/2-N | 485 | 1 7/8 | 5,415 |
| 1/2 | 530 | 2 | 7,350 |
| 5/9 | 595 | 2 1/4 | 8,260 |
| 5/8-N | 725 | 2 1/2 | 11,100 |
| 5/8 | 785 | 2 3/4 | 12,250 |
| 2/3 | 865 | 3 | 15,050 |
| 3/4 | 1,085 | 3 1/4 | 16,300 |
| 7/8 | 1,260 | 3 1/2 | 20,200 |
| 1 | 1,835 | 4 | 26,200 |
| 1 1/8 | 2,060 | 5 | 38,600 |
| 1 1/4 | 2,660 | 6 | 55,600 |
| 1 3/8 | 2,920 | 7 | 75,600 |
| 1 1/2 | 3,760 | 8 | 94,000 |
| 1 5/8 | 4,065 | 9 | 118,000 |
| 1 3/4 | 5,060 | 10 | 145,000 |

Table 3 - Track Capacity, Metric Series Bearings

| Basic Bearing Number | Track Capacity Newtons | Basic Bearing Number | Track Capacity Newtons |
|----------------------|------------------------|----------------------|------------------------|
| M CFR-13-X | 2390 | M CFR-52-X | 24000 |
| M CFR-16-X | 3675 | M CYRR-25-X | 24000 |
| M CYRR-5-X | 3675 | M CFD-52-X | 24000 |
| M CFR-19-X | 4360 | M CYRD-25-X | 24000 |
| M CYRR-16 | 4360 | M CFR-62-X | 35500 |
| M CFR-22-X | 5340 | M CYRR-30-X | 34250 |
| M CYRR-8-X | 6875 | M CFD-62-X | 35500 |
| M CFR-26-X | 6310 | M CYRD-30-X | 34250 |
| M CFR-30-X | 7940 | M CFR-72-X | 39750 |
| M CYRR-10-X | 7940 | M CYRR-35-X | 38125 |
| M CFR-32-X | 8475 | M CFD-72-X | 39750 |
| M CYRR-12-X | 8475 | M CYRD-35-X | 38125 |
| M CFR-35-X | 12300 | M CFR-80-X | 54750 |
| M CYRR-15-X | 12300 | M CYRR-40-X | 45875 |
| M CFD-35-X | 12300 | M CFD-80-X | 54750 |
| M CYRD-15-X | 12300 | M CYRD-40-X | 45875 |
| M CFR-40-X | 15000 | M CFR-85-X | 58000 |
| M CYRR-17-X | 15000 | M CYRR-45-X | 48750 |
| M CFD-40-X | 15000 | M CYRD-45-X | 48750 |
| M CYRD-17-X | 15000 | M CFR-90-X | 61500 |
| M CFR-47-X | 21750 | M CYRR-50-X | 51625 |
| M CYRR-20-X | 21750 | M CFD-90-X | 61500 |
| M CFD-47-X | 21750 | M CYRD-50-X | 51625 |
| M CYRD-20-X | 21750 | | |



Cam Follower Engineering Section continued

Cam Design

Most cam applications are similar in many respects to the track or support roller applications; however, usually bearing speeds are higher due to the multiplication of cam revolutions per minute by the ratio of the cam O.D. to the cam follower O.D. For cam applications, oil lubrication is preferred due to the tendency towards higher speeds noted above. Where such lubrication methods are not possible, frequent replacement of grease should be followed.

In the application of box or drum cams, it is possible to obtain differential rotation of the cam follower outer race as well as associated load reversals. Unless proper cam hardness and materials are employed as well as ample lubrication, excessive cam or cam follower wear may result. In box cams of this nature, the cam rise and cam fall should be watched closely, since the load reversal encountered can cause shock loads in excess of the capacity of the stud or the bearing.

The above precaution would also apply to ordinary circular cams, and instantaneous loads due to rapid cam rise should be carefully calculated and kept below the maximum recommended load or static capacity as listed for the bearing.

In ordinary cam design it is possible to employ the most efficient materials for best resistance to fatigue and brinelling. Attainment of high track surface hardnesses associated with good wear resistance are quite feasible. The same general precautions with regard to tensile strength versus hardness, as listed under track design above, should be followed for cam design; and applications involving high marginal bearing or cam loading should be referred to Application Engineering for review.

Cam Follower and Track Roller Bearing Lubrication

Standard series cam followers and track rollers as listed are factory filled with an NLGI 2 grease suitable for operating temperatures of -20°F to +250°F. Consult Application Engineering regarding grease compatibility issues.

| Series | Type |
|----------------------------------------------------------|------------------------------------------------------|
| CF, CFH, CYR, CFD, CYRD, MCF, MCYR, MCFD, MCYRD, | Lithium Soap |
| SDCF, SDMCF | Lithium Complex Soap |
| PCF, PCYR, FCF, FCYR, VCF, VCYR (Ball Bearing) | Lithium Soap |
| PCF, PCYR, FCF, FCYR, VCF, VCYR (Tapered Roller Bearing) | Polyurea |
| BCF, BCYR | Not grease lubricated, coated with preservative oil. |
| CF-CR, CYR-CR | Aluminum Complex Soap USDA H-1 Authorized* |

* Authorized by USDA for use in federally inspected meat and poultry plants. USDA H-1 authorized lubricants may be used on equipment as a lubricant or anti-rust film in locations in which there is exposure of the lubricated part to the edible product.

Frequency of lubrication depends primarily upon the speed of rotation of the bearing, the type of lubrication employed and the amount of contamination present in the application. It is possible to achieve extended operating life without lubrication where speeds are low and contamination is not excessive. This is primarily true in track support applications where bearing rotation is intermittent.

For continuously rotating applications, it is necessary to either provide continuous oil lubrication or else frequent grease lubrication, depending upon the severity of service. Automatic lubrication devices are ideal for intermittent lubrication, since accurate metering of grease and consistent relubrication is maintained through the use of these devices. In applications involving paper dust and other similar abrasive contaminants, relubrication must be resorted to at more frequent intervals and Application Engineering should be consulted for these critical applications. In LUBRI-DISC® sealed cam followers and track rollers, small vents or reliefs are provided in each seal to enable relubrication of the bearing. To avoid loss of seal efficiency, these seal vents are kept as small as possible, and for this reason the rate of relubrication should be kept at lower levels to avoid seal displacement.

Cam Follower Engineering Section continued

Reduced Maintenance Cam Followers and Track Rollers

Series CFD, CYRD, SDCF, SDMCF, PCF, FCF, VCF cam followers and track rollers are designed for use without relubrication and are not provided as standard with provisions for relubrication. These types of bearings may be limited by the life of the original grease fill and the ability of the seals to protect the bearing from contamination.

Lubrication of Stud-Type Cam Followers and Track Rollers

Series CF, CFH, CF-CR, MCF and MCFD cam followers and track rollers with integral studs are supplied with potential for 3 alternate means of lubrication; namely, through either end of the stud with an appropriate grease fitting or through the radial hole in the stem of the stud.

- The four smallest sizes in inch series CF, CFH, CF-CR (1/2, 9/16, 5/8 and 11/16) and the three smallest sizes in metric series MCF (13, 16 and 19) are an exception to the above information, since they contain neither the radial oil hole in the stem nor the axial hole at the threaded end of the stud. Therefore, these bearings may only be lubricated from the flange end of the stud in the screwdriver slot type only.
- The radial oil hole is not present in metric series MCF sizes through 26 mm OD.
- Bearings utilizing the hex hole feature, unless noted otherwise on the dimension tables, do not have the axial lubrication hole present at that end.

Since in most cam followers two axial lubrication holes are provided, it is necessary to plug one or both of the holes, depending upon the type of relubrication means employed. For this purpose, oil hole plugs are provided in the bearing wrapping and may be press fitted in the reamed lubrication fitting hole. They are designed to withstand normal relubrication pressures. If the stem radial oil hole is present but not used for relubrication, it should be covered by the housing; therefore, no plug is supplied for this hole.

Grease Lubrication Fittings

Series CF, CFH, CF-CR

| Basic Bearing No. Bearing Size | Drive Fitting Size | Ref. Alemite No. | Fitting Included |
|--------------------------------|--------------------|------------------|------------------|
| 1/2 to 11/16 incl. | 1/8" | 3019 | No |
| 3/4 to 2 3/4 incl. | 3/16" | 1728-B | No |
| 3 to 4 incl. | 1/4" | 1743-B | Yes* |
| 5 to 10 incl. | 1/4" NPT | 1627-B | No |
| * For hex hole option only. | | | |

Series MCF, MCFD

| Basic Bearing No. Bearing Size | Drive Fitting Size | Fitting Included mm |
|--------------------------------|--------------------|---------------------|
| 13 | 3.1 | Yes |
| 16 to 26 incl. | 4 | Yes |
| 30 to 40 incl. | 6 | Yes |
| 47 to 90 incl. | 8 | Yes |

Lubrication of Yoke-Type Cam Followers and Track Rollers

The relubrication of yoke-type cam follower and track roller bearings is straight forward and is accomplished by means of a radial oil hole and annular lubrication groove found on the inner race of the bearing series. The mounting pin for this bearing series must be drilled axially and radially to properly line up with the groove and hole of the CYR bearing inner race to effect proper lubrication.

Cam Follower Engineering Section continued

Mounting Details - Stud Type Cam Followers and Track Rollers

Series CF, CFH, BCF, CF-CR, CFD, MCF, MCFD

Proper mounting of stud type cam follower and track roller bearings require a close fit between the bearing stud and the housing hole. The endplate must be backed up by the housing member face. Likewise the face of the housing adjacent to the bearing endplate face should be square to the housing bore. The following are some general guidelines and details to bear in mind when installing the above series' bearings.

1. Inspect housing.

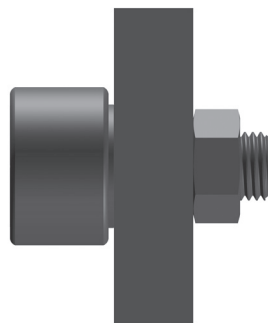
- Clean, remove burrs and sharp edges.
- Check housing bore diameter. The stud diameter should have a tight fit in the housing bore. Refer to the recommended housing bore diameters given in the dimensional tables.

2. Press stud into housing.

- For best bearing performance, bearing should be mounted with raceway radial lubrication hole in the unloaded portion of the raceway. Raceway radial hole is oriented in line with stem radial hole.
- Direct pressure against solid end of stud, not against the flanged portion.
- Do not apply pressure against outer ring face.
- Use arbor press whenever possible.
- Do not hammer on bearing faces.

3. Install nut and lock washer.

- Follow recommended clamping torque on dimensional table. Do not over tighten, otherwise undue stress may be set up in stud. Overtightening nut can also cause stretching of the stud diameter with consequent loosening of the stud in the housing member.
- A screwdriver slot is provided at the flanged end of the stud for the purpose of preventing the stud from turning when the nut is tightened. The bottom of the screwdriver slot is rounded and in some cases it may be necessary to use a special screwdriver having a rounded edge to hold the stud securely.
- An optional hexagonal hole is provided in the stud face on selected sizes for use with applications requiring greater than average thread torque or for ease of installation. In this modification, the ability to relubricate through the flange end of the stud, unless otherwise noted in the dimension tables, is eliminated.

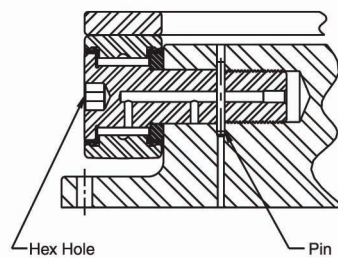


Cam Follower Engineering Section continued

Blind Hole Mounting

Sometimes a stud type follower must be mounted where a nut and lock-washer cannot be used on the threaded portion. In such blind hole mountings, special care must be given to the fit-up of the stem in the housing.

- The drilling diameter used for tapping will generally result in a loose fit between the stud and housing hole. This can lead to premature fatigue fracture of the stud in applications with varying or reverse radial load. Press fitting the stud into a reamed hole without tapped threads would be better for these applications. The non-hardened stud can be retained by drilling and pinning, or by using a set screw to bear against the stud.
- Certain applications require blind hole mounting into tapped threads. The hex hole option should be used in these cases so that adequate torque can be applied to provide good endplate support.



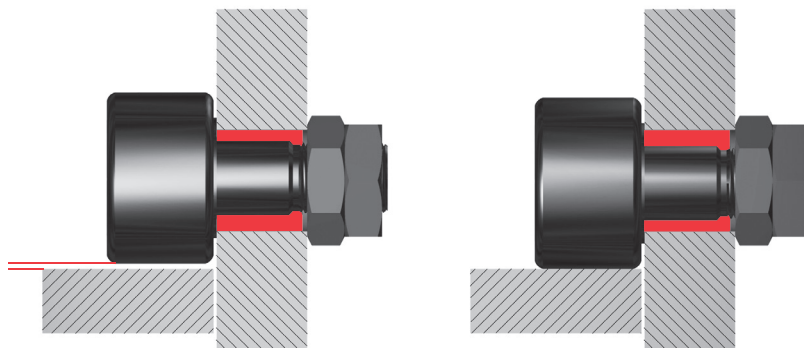
Blind Hole Mounting

Eccentric Bushing Mounting

Series CFE, BCFE, CFE-CR, SDCFE, SDMCFE, CFDE, MCFE, MCFDE, PCFE, FCFE, VCFE

In addition to the mounting details listed above, the following should be considered for proper mounting of stud type followers with the eccentric bushing option.

- The eccentric bushing diameter should have a .001" to .005" loose fit in the housing bore. Refer to dimensional table for specific housing bore diameter.



Cam Follower Engineering Section continued

- For proper end-wise clamping, housing width must be .010" wider than bushing length.
- Lock-nut or lock washer and nut is sufficient to hold the bearing at the desired position for most applications.
- Where a more positive means of holding a given position is required, the bushing and stem can be drilled for pinning. Bushing and exposed stem area is unhardened steel.
- Hex hole option allows more positive grip for adjustment and locking.

Series PCF, FCF, VCF, SDCF, SDMCF

These series cam followers and track rollers do not have an exposed stud face at the roller end. That face is enclosed by a metal plug assembled into the outer ring face. A loose stud fit in the housing is recommended so that minimal pressure is required to drive stud into the housing bore.

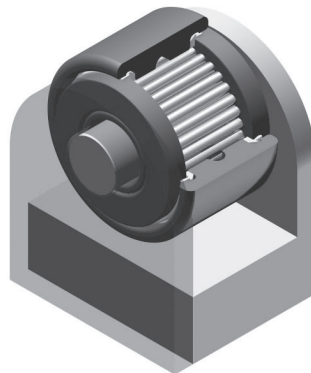
- Recommended housing bore fit for these series is .0005" to .0025" loose. Refer to dimensional table for specific housing bore diameter.
- A hex hole is provided at the threaded end of the stud for the purpose of holding the stud from turning when the nut is tightened.
- These series can not be tightened into a blind drilled and tapped hole.

Mounting Details - Yoke Type Cam Followers and Track Rollers

Series CYR, CYR-CR, CYRD, MCYR, MCYRD

Endplate support is critical when mounting yoke-type series cam followers and track rollers. If the endplates are not properly backed up, they can be displaced from the inner ring. The preferred mounting method is to provide complete axial clamping of the endplates.

If the endplates can not be clamped end-wise, it is essential to have a close fit axially in the yoke in which the bearing is mounted to prevent the bearing endplates displacing axially.



Cam Follower Engineering Section continued

The following are some general guidelines and details when installing yoke type followers.

- 1. Inspect housing.**
 - Clean, remove burrs and sharp edges.
- 2. Check shaft diameter size.**
 - Follow recommended shaft fits per table below. Refer to dimensional table for specific shaft diameter and tolerance.
- 3. Press shaft through bearing within yoke housing.**
 - For best bearing performance, mount follower with lubrication hole in the unloaded portion of the raceway.
 - Apply pressure towards center or below on endplate face if pressing bearing onto shaft.
 - Do not apply pressure against outer ring face.
 - Use abor press whenever possible.
 - Do not hammer on bearing faces.

Shaft Fit Selection - Inch Series CYR, CYR-CR, CYRD

| Load | End-Wise Clamped | Fit | Shaft Condition |
|--------|------------------|----------------|-----------------|
| Light | Yes | Push | Not Hardened |
| Medium | Yes | Push | Hardened |
| Heavy | Yes | Drive or Press | Hardened |
| Light | No | Press | Not Hardened |
| Medium | No | Press | Hardened |
| Heavy | No | Press | Hardened |

Shaft Fit Selection - Metric Series MCYR, MCYRD

| Load | End-Wise Clamped | Fit | Shaft Condition |
|--------|------------------|----------|-----------------|
| Light | Yes | g6 | Not Hardened |
| Medium | Yes | g6 | Hardened |
| Heavy | Yes | h6 or j6 | Hardened |
| Light | No | j6 | Not Hardened |
| Medium | No | j6 | Hardened |
| Heavy | No | j6 | Hardened |

Special Modified Cam Follower and Track Roller Bearings

McGill offers certain options for the CF, CFH and MCF series cam follower and track roller bearings with low minimum order quantity and short order lead time. Contact customer service for price and delivery information, 1-800-626-2120.

Threaded Axial Lubrication Holes

Standard reamed axial hole is tapped to accommodate threaded lubrication fitting. This option is popular when using automatic lubrication systems.

Cam Follower Engineering Section continued

Specifications - Inch Series

| Bearing OD Size | Thread Size |
|-----------------|---------------|
| 1/2 thru 1 1/16 | Not Available |
| 3/4 thru 1 3/8 | 1/4-28 UNF |
| 1 1/2 thru 4 | 1/8 NPT |

Specifications - Metric Series

| Bearing OD Size | Thread Size |
|-----------------|---------------|
| 13 | Not Available |
| 16 thru 26 | M6 X 0.75 |
| 35 thru 90 | 1/8 NPT |

Axial Lubrication Holes Plugged

Options include threaded end, flange end or both ends of stud. Plugs are normally supplied loose in box. If the bearing is not to be lubricated in service, plugging the holes helps prevent entry of contamination. Bearings supplied with plugs installed saves user's time and provides a bearing ready to install.

Hex Hole or Screwdriver Slot at Threaded End of Stud

These options are typically selected when roller end of stud is not accessible at installation.

Annular Lubrication Groove at Stem Radial Hole

This option helps entry of lubricant through stud radial hole so that alignment of stem and housing lubrication holes is not critical

Hex Wrench Sizes

| Basic Bearing No. | Hex Wrench Sizes | Basic Bearing No. | Hex Wrench Sizes |
|-------------------|------------------|-------------------|------------------|
| 1/2 | 1/8 | 1 7/8 | 5/16 |
| 9/16 | 1/8 | 2 | 7/16 |
| 5/8 | 1/8 | 2 1/4 | 7/16 |
| 11/16 | 1/8 | 2 1/2 | 1/2 |
| 3/4 | 3/16 | 2 3/4 | 1/2 |
| 7/8 | 3/16 | 3 | 3/4 |
| 1 | 1/4 | 3 1/4 | 3/4 |
| 1 1/8 | 1/4 | 3 1/2 | 3/4 |
| 1 1/4 | 1/4 | 4 | 3/4 |
| 1 3/8 | 1/4 | 5 | 7/8 |
| 1 1/2 | 5/16 | 6 | 1 |
| 1 5/8 | 5/16 | 7, 8, 9, 10 | 1 1/4 |
| 1 3/4 | 5/16 | - | - |