





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

			I	Size Range			
		Product Series	Material / Finish	Inch	Metric		
		CF		1/2 - 10			
		CYR		3/4 - 10			
		CFH		1/2 - 7			
		BCF		1/2 - 4			
CAMROL		BCYR	Black Oxide Finish Bearing Steel	3/4 - 4			
		MCF			16 - 90		
	6	MCFR			13 - 90		
		MCYR			5 - 50		
		MCYRR			5 - 50		
	677	CFD		1 1/4 - 6			
Heavy-Duty	0	CYRD	Black Oxide Finish	1 1/4 - 6			
The second		MCFD	Bearing Steel		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

	Design	CHARACI		S	FEATURES							
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.
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•	0	•	Ģ	\$	S	0	S	0	0	S	S	B-69
$\overline{}$	0	•		\$	S	0	S	0	0	S	S	B-69
•	0	•	Ģ	\$	S	-	S	0	0	-	S	B-91
•	0	•		\$	S	-	S	0	-	-	S	B-91
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•	•	•	O	\$\$	0	-	О	S	-	-	-	B-107
•	•	•	Ģ	\$\$	S	о	S	-	0	S	S	B-111
•		•	\bigcirc	\$\$	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 Bearings



Cam Follower Selection Guide

				Size Range			
		Product Series	Material / Finish	Inch	Metric		
Special Duty		SDCF	Black Oxide Finish	1 - 4			
		SDMCF	Bearing Steel		25 - 100		
		PCF		1 1/2 - 9			
	er	PCYR		3 - 6			
TRAKROL	C.	FCF	Black Oxide Finish	1 1/2 - 9			
IRANKUL	1	FCYR	Bearing Steel	3 - 6			
	<u> </u>	VCF		2 1/2 - 8 1/2			
	(c)	VCYR		3 1/2 - 7 1/2			

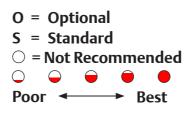


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Inch Cam Follower Bearings

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-	0	•	$\overline{}$	\$\$\$	0	0	-	S	S	-	S	B-123	
-	0	•	e	\$\$\$	0	0	-	S	S	-	S	B-125	
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Ģ	-	\bigcirc	-	\$\$	-	-	-	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												



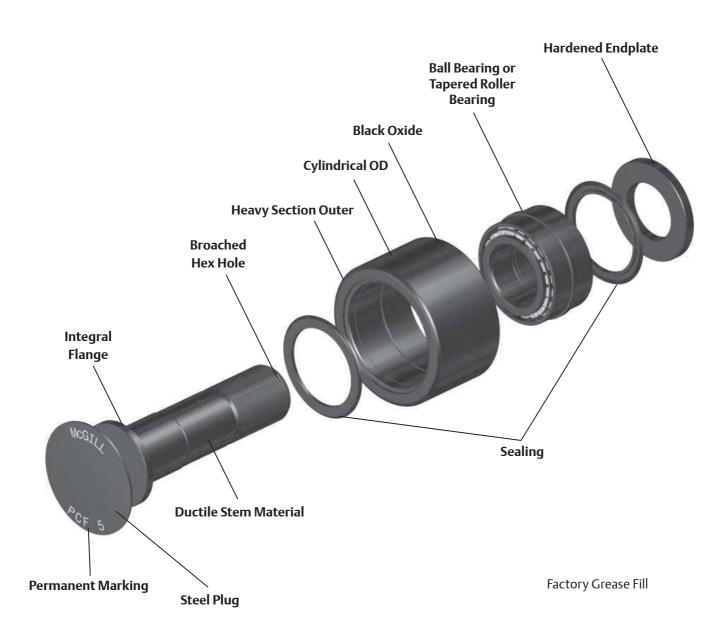
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Cam Follower Bearings



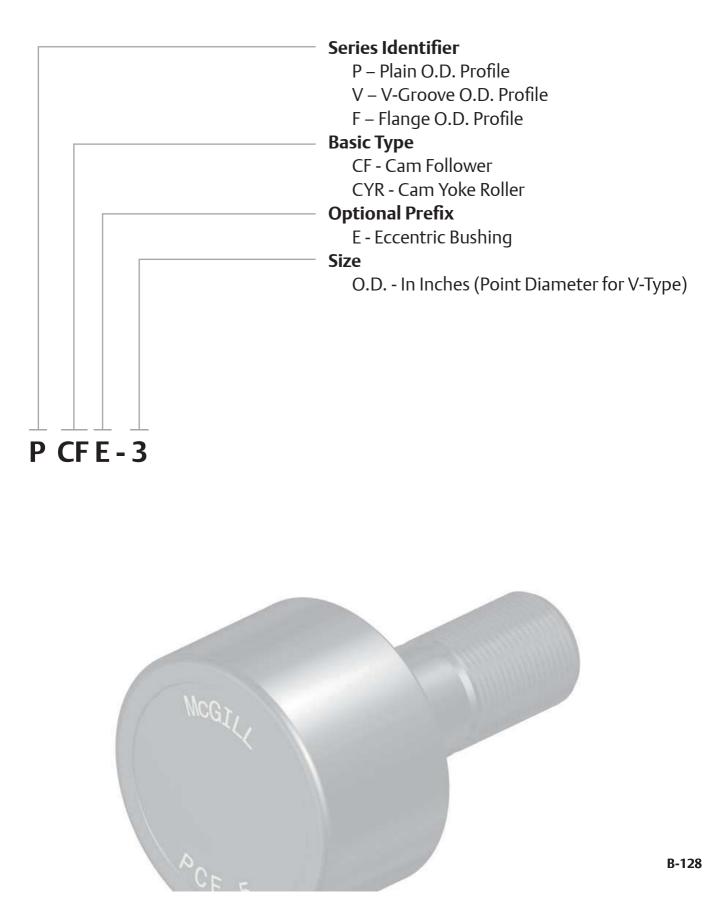
McGill TRAKROL Followers

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 Cam Follower Bearings MGILL®

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.



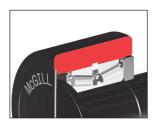
Flanged Series

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



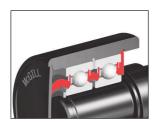
V-Groove Series

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.

TRAKROL Cam Follower Bearings MGILL®



Features and Benefits continued



Steel Plug

Metallic Plug seal helps keep continuation 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.



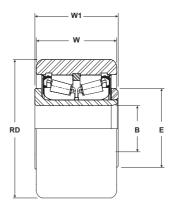
Permanent Marking

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

MGILL® TRAKROL Cam Follower Bearings



Basic Construction Type:Yoke Type Cylindrical Outside
DiameterRolling Elements:Ball or Tapered Roller Bearing
InsertBearing Material:Bearing Quality SteelSeal Type:Rubber LipLubrication:Polyurea Thickened Grease NLGI #2



PCYR

Part No.	Insert Type	RD	w		B	W1	Е	Track Roller	Thrust Capacity	Track Roller Static Rating	WT
With LUBRI-DISC	Ball or	Roller Diameter	Roller Width	Bore D	Diameter	Endplate Extension	Min. Clamping Diameter	Dynamic Rating			Bearing Weight
Seals	Tapered Roller Bearing	inch mm		inch mm		inch mm		lb/N			lb
		(Ref)	(Ref)	Nom.	Tol.	(Ref)	(Ref)	ID/IN	lb/N	lb/N	kg
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.

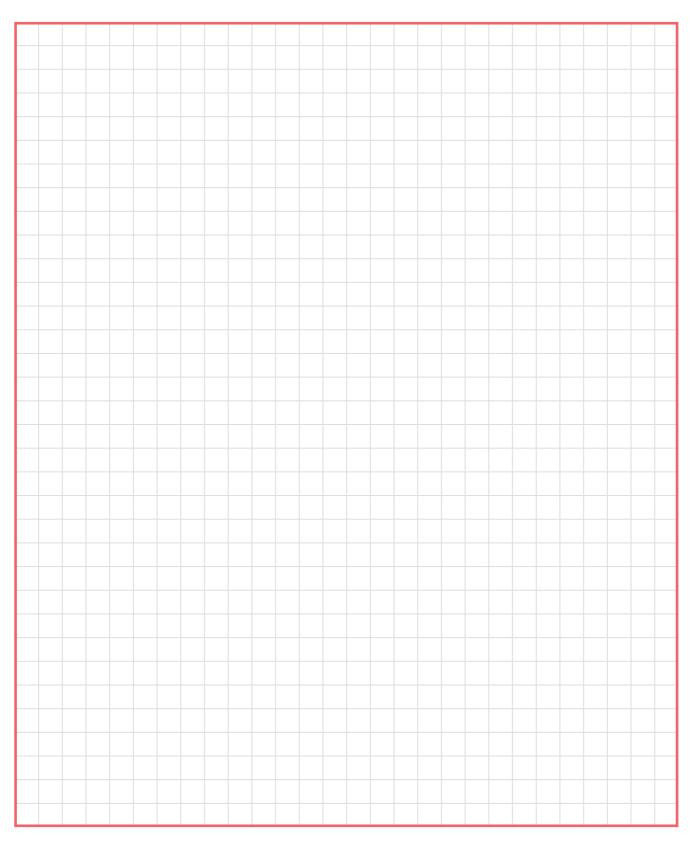
and Application Engineering should be con Metric dimensions for reference only.

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.

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Cam Follower Engineering see page B-147.



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