

Cam Follower Bearings



A Regal Brand

REGAL

McGill Precision Bearings Reduce Operating Cost

CAMROL Cam Follower Selection Guide

Condition	How to identify	Potential Solutions	
General Purpose Applications	Using an unsealed bearing and desire longer life	LUBRI-DISC Seal CF-1-S Can extended bearing life 10 times longer than an unsealed bearing	
Ease of installation	feature a screwdriver slot to hold bearing during installation	Hex-Hole CF-1-S-B Provides superior holding power	
Blind Hole Applications	Stud type cam follower installed into drilled and tapped hole		
Misalignment/Corner Loading	Wear pattern on roller diameter offset from center	Crowned OD CCF-1-S Helps to center load	
Thrust	<ul style="list-style-type: none"> • Thrust loads present • Bearing supports rotating table • Bearing roller develops excessive end play 	Heavy Duty CFD-3 Incidental thrust loads	
		TRAKROL PCF-3 Higher thrust loads	
Corrosion	<ul style="list-style-type: none"> • Visible rust • Washdown environment • Bearing lock-up 	CRES CAMROL® CF-1-SB-CR Corrosion resistant 440C material	
Contamination	<ul style="list-style-type: none"> • Dusty or contaminated environment • Bearing lock-up 	Increased sealing protection:	
		LUBRI-DISC Seal CF-1-S	
		Heavy Duty CFD-3	
		Special Duty SD-CF-1	
TRAKROL PCF-3			
Maintenance Free	<ul style="list-style-type: none"> • Bearing difficult to reach • Relubrication not desired 	Maintenance free options:	
		Bushing Type BCF-1-S	
		Heavy Duty CFD-3	
		Special Duty SD-CF-1	
TRAKROL PCF-3			

CAMROL® – The Industry Standard

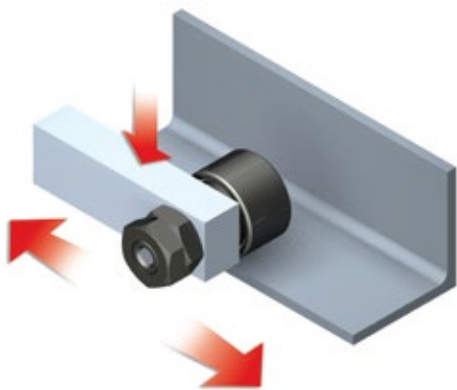
In 1937, McGill engineers invented the first needle bearing cam follower. Since that time, McGill has maintained its leading position through the continuous development of new features and improvements to the CAMROL bearing product line.

As today's leading manufacturer of quality cam follower bearings, McGill has developed many features to extend bearing life for a variety of operating conditions, lubrication requirements and application environments. McGill offers the broadest range of cam follower bearings on the market with over 1,400 standard designs to choose from.

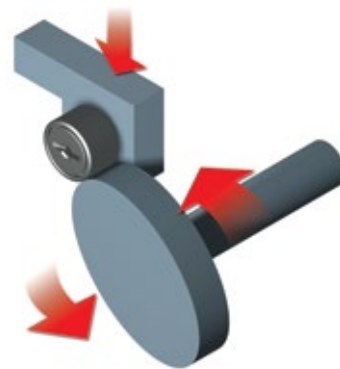
Overview

The typical functions of a cam follower are to provide anti-friction support of linear movement or to follow the surface of a cam. The CAMROL cam follower from McGill was designed to withstand the intermittent shock, loading and precision requirements associated with these applications.

Track or Load



External Cam



Industries

- Auto plants
- Food and beverage
- Forest products
- Oil drilling
- Printing
- Steel mills
- Textiles

Applications

- Automation equipment
- Machine tools
- Packaging equipment
- Unit material handling

Yoke TRAKROL Bearings

Yoke TRAKROL bearings are designed for yoke (straddle) mounting on a shaft and utilize tapered roller bearings.

Available in three configurations.

VCYR Series



FCYR Series



PCYR Series



Cam Follower Nomenclature Chart

Series	Type	Internal Construction	Size Specification	Seal	Mounting Method	O.D. Configuration			
Camrol Bearings									
CF	Standard Stud	Full Complement Needle Rollers	Roller Diameter in Inches	Unsealed	Screwdriver Slot	Cylindrical			
CF-S				Lubri-Disc		Crowned			
CCF-S				Eccentric Stud	Unsealed	Hex Hole	Cylindrical		
CF-B					Lubri-Disc		Crowned		
CF-SB					Unsealed		Cylindrical		
CCF-SB					Lubri-Disc	Crowned			
CFE-B	Heavy Stud				Unsealed	Screwdriver Slot	Cylindrical		
CFE-SB					Lubri-Disc		Crowned		
CCFE-SB				Unsealed	Hex Hole		Cylindrical		
CFH				Lubri-Disc		Crowned			
CFH-S				Unsealed		Cylindrical			
CCFH-S				Lubri-Disc	Crowned				
CFH-B	Yoke			Unsealed	Yoke	Cylindrical			
CFH-SB				Lubri-Disc		Crowned			
CCFH-SB				Unsealed		Cylindrical			
CYR				Lubri-Disc	Crowned				
CYR-S				Unsealed	Cylindrical				
CCYR-S				Lubri-Disc	Crowned				
Bushing Camrol Bearings									
BCF-S	Standard Stud	Bushing	Roller Diameter in Inches	Lubri-Disc	Screwdriver Slot	Cylindrical			
BCF-SB					Hex Hole	Crowned			
BCCF-SB					Yoke	Cylindrical			
BCYR-S	Yoke								
CRES Camrol Bearings									
CF-SB CR	Standard Stud	Full Complement Needle Rollers	Roller Diameter in Inches	Lubri-Disc or Lubri-Disc +	Hex Hole	Cylindrical			
CFE-SB CR	Eccentric Stud								
CYR-S CR	Yoke								
Heavy-Duty Camrol Bearings									
CFD	Standard Stud	Double Row Cylindrical Rollers	Roller Diameter in Inches	Rubber Lip	Hex Hole	Cylindrical			
CCFD						Crowned			
CYRD	Yoke				Yoke	Cylindrical			
CCYRD					Crowned				
Special-Duty Camrol Bearings									
SDCF	Standard Stud				Caged Needle Rollers	Roller Diameter in Inches	End Plug and Lubri-Disc +	Hex Hole	Cylindrical
Metric Camrol Bearings									
MCF	Standard Stud	Full Complement Needle Rollers	Roller Diameter in Millimeters	Unsealed	Screwdriver Slot	Crowned			
MCF-S				Lubri-Disc		Cylindrical			
MCF-SX				Caged Needle Rollers		Unsealed	Crowned		
MCFR						Lubri-Disc	Cylindrical		
MCFR-S						Full Complement Needle Rollers	Unsealed	Crowned	
MCFR-SX							Lubri-Disc	Cylindrical	
MCF-SB		Caged Needle Rollers			Unsealed		Crowned		
MCF-SBX					Lubri-Disc		Cylindrical		
MCFR-SB				Eccentric Stud	Unsealed		Crowned		
MCFR-SBX					Lubri-Disc		Cylindrical		
MCFE-SB					Yoke	Unsealed	Yoke	Crowned	
MCFRE-SB						Lubri-Disc		Cylindrical	
MCYR	Full Complement Needle Rollers	Unsealed	Crowned						
MCYR-S		Lubri-Disc	Cylindrical						
MCYR-SX		Caged Needle Rollers	Unsealed	Crowned					
MCYRR			Lubri-Disc	Cylindrical					
MCYRR-S			Yoke	Unsealed	Crowned				
MCYRR-SX				Lubri-Disc	Cylindrical				
Metric Heavy-Duty Camrol Bearings									
MCFD	Standard Stud		Double Row Cylindrical Rollers	Roller Diameter in Millimeters	Metal Shield	Screwdriver Slot	Crowned		
MCFD-X		Cylindrical							
MCYRD	Yoke	Bore Diameter in Millimeters		Yoke		Crowned			
MCYRD-X						Cylindrical			
Metric Special-Duty Camrol Bearings									
SDMCF	Standard Stud	Caged Needle Rollers	Roller Diameter in Millimeters	End Plug and Lubri-Disc +	Hex Hole	Cylindrical			
Trakrol Bearings									
PCF	Standard Stud	Ball or Tapered Roller Bearings	Roller Diameter in Inches	Rubber Lip and End Plug	Hex Hole	Cylindrical			
PCFE	Eccentric Stud					Flanged			
FCF	Standard Stud					Point Diameter in Inches	V-Grove		
FCFE	Eccentric Stud		Yoke		Cylindrical				
VCF	Standard Stud				Flanged				
VCFE	Eccentric Stud				V-Grove				
PCYR	Yoke	Tapered Roller Bearings	Roller Diameter in Inches	Rubber Lip	Yoke	Cylindrical			
FCYR			Point Diameter in Inches			Flanged			
VCYR			V-Grove						

McGill Needle Bearings

McGill machined race needle bearings are manufactured from bearing quality steel and available with multiple seal configurations. McGill needle bearings have a lubrication groove with radial holes on both the inner and outer rings for relubrication through the housing or shaft. Custom designs, lubricants and diametrical matching (-DS Suffix) are available.



MR 32 Shown

CAGEROL®

Bearings are available in two series.
Standard width MR 5/8" to 9 1/4" bore sizes
Narrow width MR-N 5/8" to 6 1/2" bore sizes

- Steel cage construction allowing for higher-speed operation, while providing roller guidance and a lubricant reservoir.
- Crowned rollers, available on most sizes, reduce end stresses.
- Available with optional inner ring (MI) which provides a hardened raceway for the rollers when used with an unhardened shaft.

GUIDEROL®

Bearings are available in two series.
Standard width GR sizes 5/8" to 9 1/4" bore sizes
Narrow width GR-N sizes 5/8" to 6 1/2" bore sizes

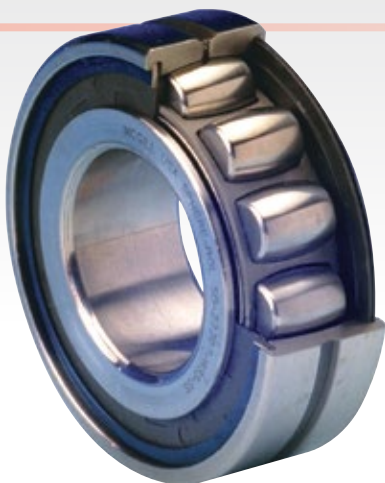
- Full complement needle bearing allowing for higher static load rating, rigidity, and shock resistance.
- Available with optional inner ring (MI) which provides a hardened raceway for the rollers when used with an unhardened shaft.



GR 32 SS with Inner Ring Shown

McGill Spherical Roller Bearings

McGill Spherical Bearings single row of spherical rollers provides a wide variety of advantages. The bearing design allows for higher capacities, higher-limiting speeds, longer life under more misalignment and protection from contaminant within the same envelope of ordinary two-row designs.



SB-22207-W33-SS Shown

SPHERE-ROL®

Bearings are available in two series (tapered bore optional):
22200 series - 20mm to 150mm bore sizes
22300 series - 40mm to 100mm bore sizes

- Sealed SPHERE-ROL bearing dimensions meet ABMA/ISO specifications. Choose from three seal types:
 - NYLAPLATE® seal
 - NYLAPLATE® high temperature seal
 - LAMBDA® seal
- Dimensionally interchangeable with conventional double row spherical roller bearings.
- Spherical rollers increase dynamic load capacity and misalignment
- of conventional double row spherical roller bearings.