## M¢GILL®



## CAM FOLLOWER BEARINGS



**FREGAL**Rexnord

## A CENTURY OF INNOVATION



#### A FUTURE IN IMPROVING PRODUCTIVITY

System uptime and operational efficiencies are key to profitable manufacturing in the twenty-first century and McGill® precision bearings play an important role.

Premature bearing failure can dramatically drive up operating costs and increase system maintenance requirements. That's why McGill bearing engineers design bearings to meet a host of different needs – easing installation, reducing maintenance and decreasing equipment downtime.

As our customer base has expanded, we have continued to design unique bearing solutions beyond our standard offerings. By applying years of engineering and manufacturing expertise, our staff of bearing specialists has created a broad array of bearing solutions to meet some of the toughest application requirements.

As we celebrate 100 years of manufacturing excellence, Regal Rexnord looks forward to the next century of working with you to help select and design better, more efficient bearing solutions to reduce costs and positively impact your bottom line.

The McGill brand of bearings was established in 1905 by James H. McGill and is a key part of Regal Rexnord. Since then, McGill bearing products have continued to evolve to meet the needs of an ever expanding list of industries and applications. Regal Rexnord now has 100 years of experience in design and manufacturing, with a long line of "firsts":

1930 - MULTIROL™
cam follower bearings

1937 - CAMROL® cam follower bearings

1956 - GUIDEROL® needle bearings

1964 - NYLAPLATE® seal

1967 - SPHERE-ROL® spherical roller bearings

1973 - LAMBDA® seal

1974 - LUBRI-DISC™ seal

1980 - TRAKROL® cam follower bearings

1992 - LUBRI-DISC™+ seal

1993 - METRIC CAMROL liquid metal injection seal bearings

1998 - SPECIAL-DUTY CAMROL cam follower bearings

1999 - HEAVY-DUTY CAMROL cam follower bearings

2000 - CRES™

CAMROL stainless steel bearings

## CAMROL® CAM FOLLOWER BEARING SELECTION GUIDE

Condition:	How to identify:		Potential solutions		
Difficult Installation	Standard stud type cam followers feature a screwdriver slot to hold bearing during installation which is sometimes not sufficient		<b>Hex Hole</b> CF-1-S- <b>B</b> Provides superior holding		
Blind Hole Applications	Stud type cam follower installed into drilled and tapped hole		power		
Misalignment/ Corner Loading	Wear pattern on roller diameter offset from center		Crowned OD CCF-1-S Helps to center load		
Thrust	Thrust loads present Bearing supports rotating table Bearing roller develops excessive end play	Thrust Load Radial Load	Heavy Duty CFD-4 Incidental thrust loads		
			TRAKROL® Bearing PCF-3 Higher thrust loads		
Corrosion	Visible rust Washdown environment Bearing lock-up		CRES™ CAMROL Bearing CF-1-SB- <u>CR</u> Corrosion resistant 440C matrerial		
Contamination	Dusty or contaminated environment     Bearing lock-up		Increased sealing protection:		
			LUBRI-DISC® Bearing CF-1- <u>S</u>		
			<b>Heavy Duty</b> CF <u>D</u> -4		
			Special Duty SD-CF-1		
			TRAKROL Bearing PCF-3		
Relubrication is difficult and costly	Bearing difficult to reach     Relubrication schedule is difficult or costly		Reduced Maintenance:		
			Bushing Type BCF-1-S		
			Heavy Duty CF <u>D</u> -4		
			Special Duty SD-CF-1		
			TRAKROL Bearing PCF-3		

# CAMROL® BEARINGS — THE INDUSTRY STANDARD

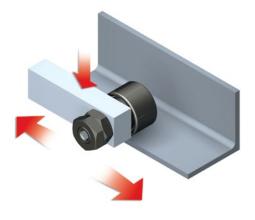
Since 1937, the McGill® brand has maintained its leading position through the continuous development of new features and improvements to the CAMROL bearing product line.

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

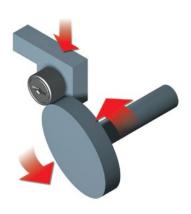
#### **OVERVIEW**

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 bearing from Regal Rexnord 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

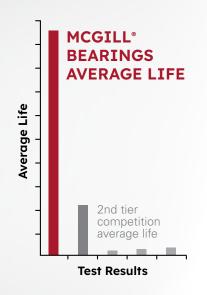
# SUPERIOR DESIGN FEATURES PROMOTE LONGER LIFE, LOWER COST

Although others have tried to copy the outward appearance of CAMROL® bearings, our customers find vast differences in performance. In laboratory testing at Regal Rexnord, CAMROL bearings last up to 50 times longer than some competitors' products in a variety of laboratory and customer tests.

## PROVEN PERFORMANCE

Eight bearings from each manufacturer were tested at Regal Rexnord under identical laboratory conditions without relubrication.

CF-1-S size tested at 200 lbs and 1,500 RPM.



#### **HEAVY SECTIONED OUTER RACE**

The heavy sectioned outer race helps withstand shock loading of cam follower operation.

## LUBRICATION GROOVE EXTENDS BEARING LIFE

All inch dimension CAMROL bearings with seals have a lubrication groove that extends lubrication intervals and increases the prelubricated life of the bearing.

## BLACK OXIDE FINISH

CAMROL bearings have a black oxide finish on all external surfaces to help inhibit corrosion.

## IMPROVED HOLDING POWER

The threads on all inch CAMROL bearing studs meet class 2 tolerances and metric CAMROL bearing stud threads meet class 6G tolerances. These precise geometrics help provide better holding power.

## **HIGH QUALITY MATERIALS**

Although other steels may be less expensive, Regal Rexnord only uses high quality, specialty steel to boost the performance and endurance that is the hallmark of a CAMROL bearing.

## SPECIALIZED HEAT TREATMENT

All raceways are heat treated to a minimum of 58 HRC. Inner studs are induction heat treated to McGill bearing specifications to provide a hardened raceway and a ductile stem that provides toughness for absorbing the shocks of cam follower operations.

## METRIC CAM FOLLOWER BEARINGS

Regal Rexnord offers metric CAMROL® bearings in metric dimensions equivalent to ISO standard series. Both European and Asian versions are available.

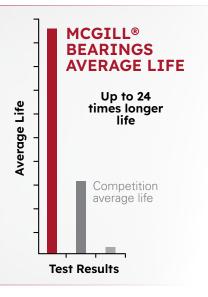
Metric CAMROL bearings are available in stud or yoke type versions. Specifying the type of bearing needed depends upon the preference for either a straddle (yoke) mounting or a cantilever (overhung) mounting.

Metric CAMROL bearings are available with three types of internal construction: full complement needle rollers, retainer type needle rollers or cylindrical rollers.

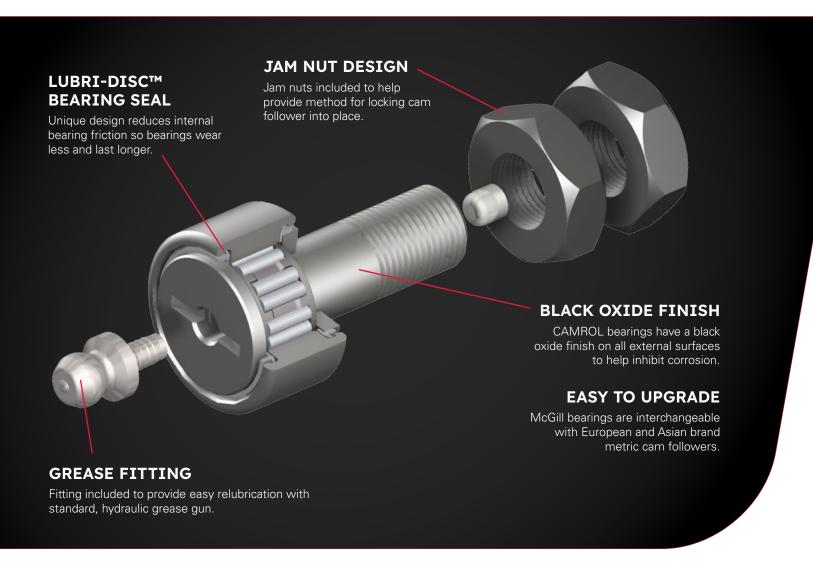
## PROVEN PERFORMANCE

Eight bearings from each manufacturer were tested at Regal Rexnord under identical laboratory conditions without relubrication.

MCF-26-S size tested at 160 lbs and 1.975 RPM.

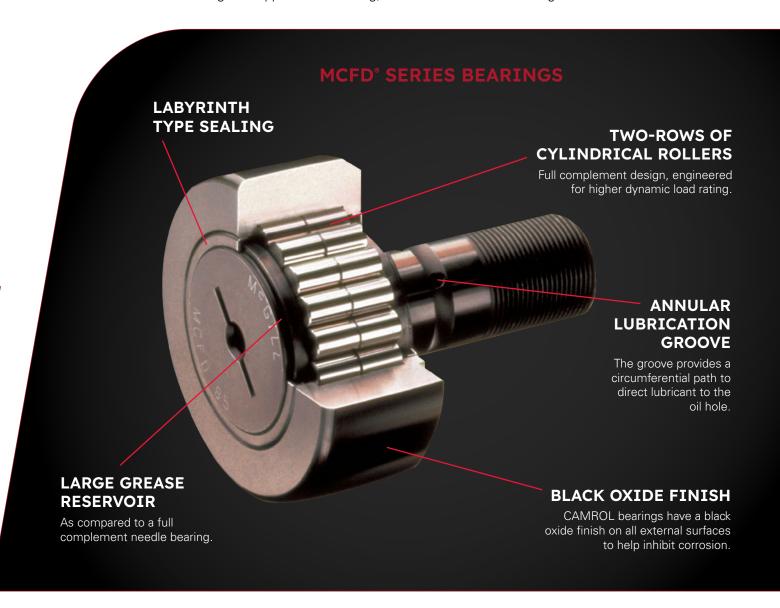


With a proven track record on inch cam followers, Regal Rexnord brings many key features and manufacturing practices to the metric CAMROL bearings series that outlast the competition. In test laboratories, McGill CAMROL bearings last up to 24 times longer than some competitors' bearings.



# HEAVY DUTY METRIC CAMROL® BEARINGS

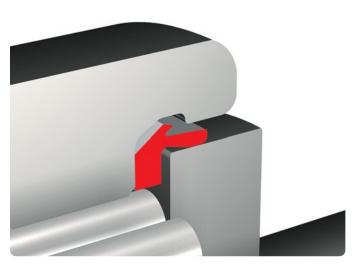
This series provides greater dynamic load ratings by using cylindrical rollers in place of standard needle rollers. This construction allows the bearings to support radial loading, as well as some axial loading.





## MCYRD® SERIES BEARINGS

Yoke type heavy-duty metric CAMROL bearings are designed for yoke (straddle) mounting on a shaft.



Note: The LUBRI-DISC bearing seal is rated up to 250°F maximum.

## LUBRI-DISC™ BEARING SEAL OPTION

The LUBRI-DISC seal option increases bearing life up to 10 times longer than unsealed bearings:

- Labyrinth and contact sealing help protect against loss of lubrication and help prevent entrance of contaminants while providing low drag operation.
- Vents help prevent seal blow-out during relubrication.
- Integral backplate design reduces internal friction by eliminating metal-on-metal contact.
   Less friction lowers the operating temperature, which extends grease life and allows for higher operating speeds.

## HEX HOLE OPTION FOR EASE OF INSTALLATION

The hex hole option reduces costs by speeding installation or removal of stud type cam followers. During typical installation or removal, the bearing must be held in place while torque is applied to the mounting nuts. The optional hex hole increases secure holding power over the standard screwdriver slot in the face of the bearing. The hex hole option is standard for stud type Heavy-Duty, Special-Duty and CRES™ corrosion resistant CAMROL® bearings and is an option for standard CAMROL bearings.

The hex hole option is ideal for:

- Difficult to reach assemblies
- Blind hole mounting
- Equipment with many bearings

Note: The hex hole option does not allow for relubrication from the roller end of the bearing on most sizes. (All metric versions and inch sizes below 3" OD.)



## CROWNED OD OPTION FOR LONG LIFE

A slight crown on the OD of a cam follower bearing can increase bearing life up to three times longer than the standard, cylindrical OD bearing. The crown helps more evenly distribute stresses for the following conditions:

- Heavy loading
- Misalignment of track or housing
- Turntable or rotary cams

Note: The crowned O.D. is an option for standard CAMROL® and heavy-duty CAMROL bearings.



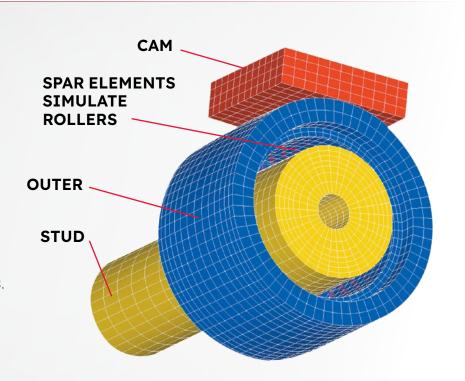
CYLINDRICAL OD:
MISALIGNMENT CAN CAUSE
CORNER LOADING



CROWNED OD: CORNER LOADING IS REDUCED.

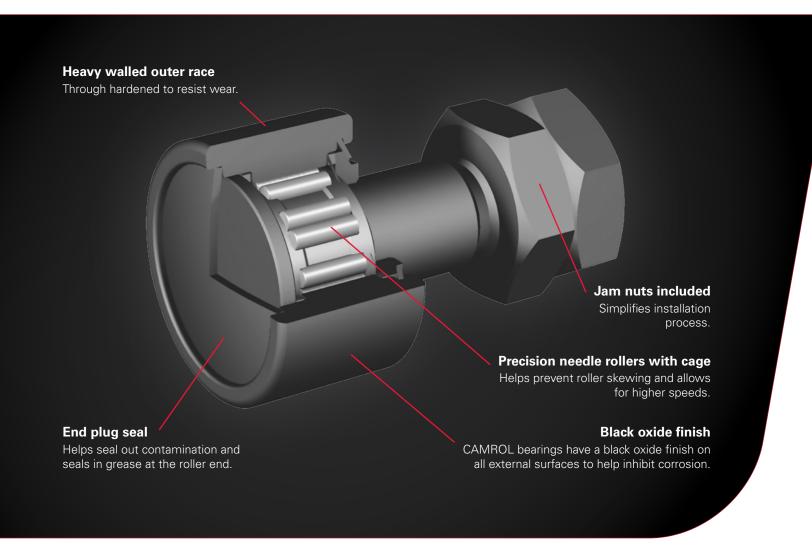
## COMPUTER ANALYSIS SHOWS CROWNED OD CAN INCREASE LIFE THREE TIMES LONGER.

Finite element analysis of cam followers under heavy loads shows crowned OD increases L10 life. More detailed results available in Motion System Design magazine, August 2003.



# SPECIAL-DUTY CAMROL® BEARINGS FOR TOUGH ENVIRONMENTS

Select special-duty CAMROL bearings for tough applications such as automotive production, metal forming assembly and welding environments.



#### RESIST CONTAMINATION

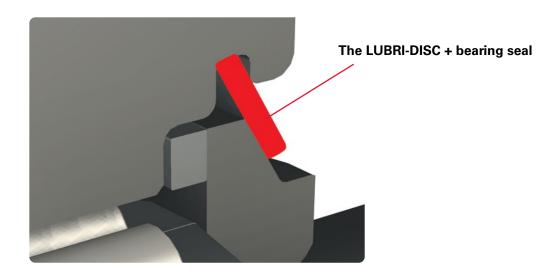
Special-duty CAMROL bearings are specifically designed to resist contaminated environments. A metal end plug seal on the roller face helps block out contamination and resists welding spatter.

#### MAINTENANCE FREE

Special-duty CAMROL bearings extend bearing life up to six times without lubrication maintenance by using synthetic grease and caged needle rollers. Caged needle rollers allow for a larger grease reservoir than standard needle bearing cam followers, a beneficial feature when relubrication is not possible.

## IMPROVED PROTECTION

On the stud side of the Special-duty CAMROL® bearing, the LUBRI-DISC™+ bearing seal offers improved protection over standard sealing.



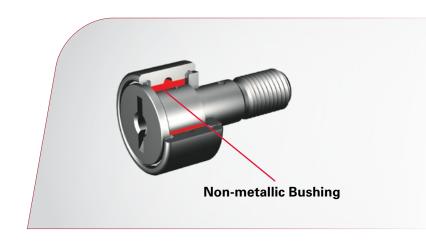
# BUSHING TYPE CAMROL BEARINGS CAM FOLLOWER BEARINGS

## **ELIMINATES RELUBRICATION**

This bearing series eliminates the need for lubrication by utilizing a non-metallic bushing instead of needle rollers. Save relubrication time and inconvenience. This is ideal when relubrication is not desired and grease contamination must be avoided.

The bushing type is appropriate for:

- Light loads and slow speeds
- Not for food applications



## HEAVY-DUTY CAMROL® BEARINGS FOR INCIDENTAL THRUST APPLICATIONS

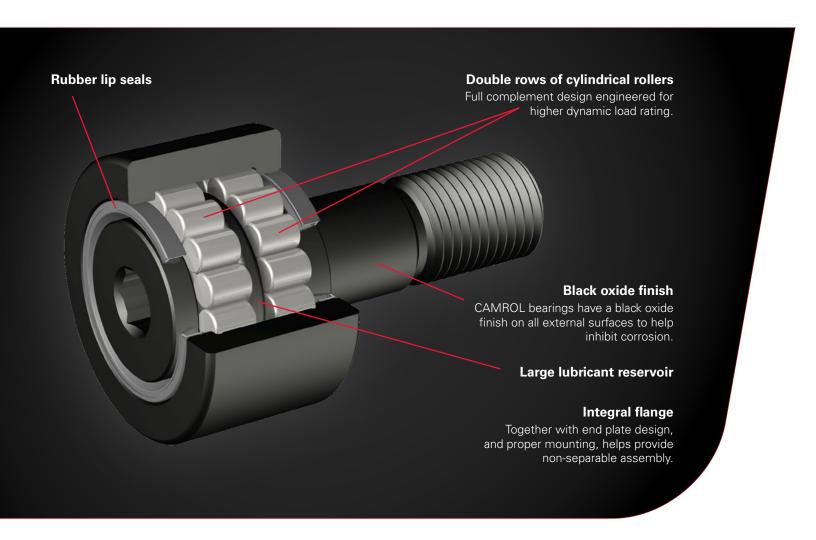
While standard needle bearing cam followers are the economical choice for most applications, incidental thrust loads make Heavy-duty CAMROL bearings a better choice. Primary causes of incidental thrust are misalignment of housing or track, high loading causing stud deflection and rotary tracks or cams. Heavy-duty CAMROL bearings employ a unique internal construction, consisting of two rows of cylindrical rollers designed to manage much of the thrust.

#### **RESIST CONTAMINATION**

Rubber lip seals are standard in Heavy-duty CAMROL bearings. Although standard cam followers do well in most conditions, the rubber lip seals in Heavy-duty CAMROL bearings increase protection against contamination.

#### **MAINTENANCE FREE**

Standard bearing has no relubrication feature. Seals are pointed inward for improved grease retention. The large lubricant reservoir and rubber lip seals keep more grease in the bearing for maintenance free operation.



# CRES™ CAMROL® CAM FOLLOWER BEARINGS

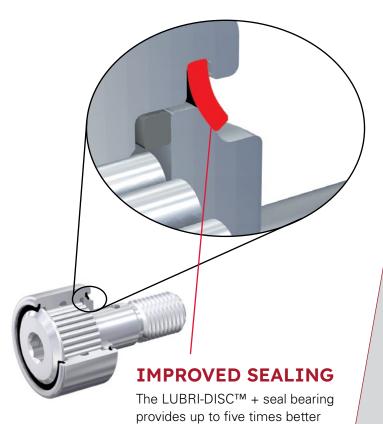
Corrosion-Resistant CAMROL Bearings for Food and Beverage Applications

#### **GREATER CORROSION RESISTANCE**

Whether equipment is exposed to the elements or to extreme washdown in food and beverage applications, the CRES corrosion resistant CAMROL bearing extends bearing life in wet or corrosive environments compared to standard cam followers. The CRES CAMROL bearing features 400 series stainless steel to help prevent corrosion.

#### FDA COMPLIANT GREASE

CRES CAMROL bearings utilize H1 FDA compliant grease for food applications.



protection against washdown

than standard seals. This seal

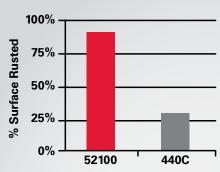
is featured in CRES CAMROL

bearings 1" OD and larger.



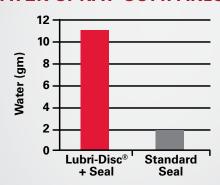
Standard cam followers rust quickly.

#### **RUST COMPARISON**



Tested per ASTM B117 salt fog test, 5% saline solution, 100°F, 100% humidity.

#### WATER SPRAY COMPARISON

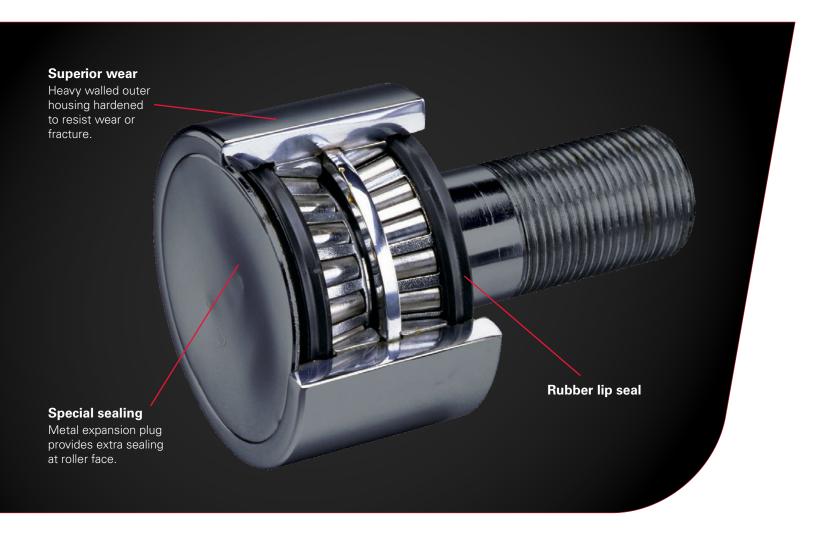


In a test originally performed to meet exacting aerospace standards, CRES CAMROL bearings were tested with a high pressure spray aimed at the bearing face. This graph shows how each seal held-up – the LUBRI-DISC + bearing seal featured in CRES CAMROL bearings was the obvious winner.

## TRAKROL® CAM FOLLOWER BEARINGS

## FOR THRUST AND CONTAMINATION

TRAKROL bearings feature a different design than CAMROL® bearings to allow for heavier thrust loads. Smaller sizes (< 3" OD or point diameter) use ball bearing inserts and larger sizes use tapered roller bearings to accept thrust loads.



### **RESISTS CONTAMINATION**

Rubber lip seals help keep out contamination on the stud side of the bearing and a metal end plug seal helps protect the roller face.

#### THRUST APPLICATIONS

Tapered roller bearing or ball bearing inserts allow for the heavier thrust capabilities of the TRAKROL bearing.

#### MAINTENANCE FREE

A large grease reservoir allows for longer life without relubrication.

## **WIDE SELECTION**

- Three OD types (plain, flanged and V-groove)
- Stud and yoke types
- Eccentric stud option available

**Note:** TRAKROL® bearings are not always dimensionally interchangeable with CAMROL® bearings.



## YOKE TRAKROL BEARINGS

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

Available in three configurations.



## A HISTORY OF INNOVATION... A FUTURE IN HELPING YOU STAY **COMPETITIVE**

## PRECISION MANUFACTURING

Because there are no industry-wide standards for tolerances on cam follower bearings, Regal Rexnord has set its own demanding tolerances for McGill CAMROL bearings. Regal Rexnord uses statistical process control to help provide cam followers that are manufactured according to these exacting standards.

Regal Rexnord was one of the first bearing manufacturers to receive ISO 9001 certification. ISO certification and the process it encompasses help Regal Rexnord design and manufacture bearings to uniform quality standards. While others have tried to imitate the McGill bearing design, Regal Rexnord has the precision, quality and performance that leads the industry.

## **ADVANCED TOOLS**

Regal Rexnord engineers use a wide variety of tools, such as computer analysis and sophisticated laboratory testing, to anticipate and design new solutions.

As applications push the limits of bearing performance, Regal



## **ENGINEERING EXCELLENCE**

Leveraging experience gained from developing high performance aerospace and industrial applications. Regal Rexnord routinely designs and manufactures McGill® bearings up to Class 5 precision levels with exotic materials or coatings.

As developers of the first cam follower bearing, Regal Rexnord's engineering team leads the industry in cam follower design. Extreme operating environments, changing size requirements, high temperature differentials, and caustic chemicals – Regal Rexnord engineers respond with a complete selection of standard offerings and customized bearing solutions for your application challenges.



## PROFESSIONAL TIMELY SERVICE

Regal Rexnord is known for a commitment to customer service:

- Inventories optimized to achieve excellent service fill rates
- Standard box, bulk and special packaging available to meet your needs
- Trained personnel to help solve problems quickly and accurately
- A comprehensive distribution network and a focus on quick delivery, enabling us to serve you efficiently
- A technical customer service group for technical issues and a general customer service group for all other concerns so you always have the right resources to help you resolve issues

## 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® BEARING

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® BEARING**

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

The McGill spherical bearing's 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® BEARING

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.

## **CAM FOLLOWER NOMENCLATURE CHART**

Series	Туре	Internal construction	Size specification	Seal	Mounting method	O.D. Configuration
Camrol® bearings						
CF				Unsealed		
CF-S	_		Roller diameter in inches		Screwdriver slot	Cylindrical
CCF-S				Lubri-Disc™		Crowned
CF-B	Standard stud			Unsealed		0 1: 1: 1
CF-SB	1			Lubri-Disc		Cylindrical
CCF-SB				LUDII-DISC	Hex hole	Crowned
CFE-B		- Full complement needle rollers		Unsealed	TICX HOIC	Cylindrical
CFE-SB	Eccentric stud			Lubri-Disc		Cylinarical
CCFE-SB						Crowned
CFH				Unsealed	Screwdriver slot	Cylindrical
CFH-S				Lubri-Disc		,
CCFH-S	Heavy stud					Crowned
CFH-B	4			Unsealed	Hex hole	Cylindrical
CFH-SB	Yoke			Lubri-Disc		Carring
CYR				Unsealed		Crowned
CYR-S				Urisealeu	Yoke	Cylindrical
CCYR-S	loke			Lubri-Disc		Crowned
Bushing Camrol	bearings					Crowned
BCF-S	Dearings				Screwdriver slot	
BCF-SB	Standard stud	Bushing	Roller diameter in inches	Lubri-Disc		Cylindrical
BCCF-SB	Otanaara staa				Hex hole	Crowned
BCYR-S	Yoke				Yoke	Cylindrical
CRES™ Camrol b					TORO	Symianical
CF-SB CR	Standard stud					
CFE-SB CR	Eccentric stud	Full complement needle rollers	Roller diameter in inches	Lubri-Disc or Lubri-Disc +	Hex hole Cylindri Yoke	Cylindrical
CYR-S CR	Yoke					·
<b>Heavy-Duty Cam</b>	rol bearings					
CFD	6	- Double row cylindrical rollers	Dallan diagraphy in in the	Dukkaskis		Cylindrical
CCFD	Standard stud				Hex hole	Crowned
CYRD	Yoke		Roller diameter in inches	Rubber lip	Yoke	Cylindrical
CCYRD	Toke				toke	Crowned
Special-Duty Car		_				
SDCF	Standard stud	Caged needle rollers	Roller diameter in inches	End plug and Lubri-disc +	Hex hole	Cylindrical
Metric Camrol be	earings	 				
MCF®				Unsealed		
NACEC	1			Chicalca	-	Crowned
MCF-S	]	Full complement needle rollers		Lubri-Disc		
MCF-SX		Full complement needle rollers		Lubri-Disc	Screwdriver slot	Cylindrical
MCF-SX MCFR®	- - - -	·			- Screwdriver slot	Cylindrical Crowned
MCF-SX MCFR® MCFR-S	Standard stud	Full complement needle rollers  Caged needle rollers		Lubri-Disc	- Screwdriver slot	Cylindrical Crowned Cylindrical
MCF-SX MCFR® MCFR-S MCFR-SX	Standard stud	·	Roller diameter in millimeters	Lubri-Disc	Screwdriver slot	Cylindrical Crowned Cylindrical Crowned
MCF-SX MCFR® MCFR-S MCFR-SX MCF-SB	Standard stud	·	Roller diameter in millimeters	Lubri-Disc Unsealed	Screwdriver slot	Cylindrical Crowned Cylindrical Crowned Cylindrical
MCF-SX MCFR® MCFR-S MCFR-SX MCF-SB MCF-SBX	Standard stud	Caged needle rollers  Full complement needle rollers	Roller diameter in millimeters	Lubri-Disc		Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned
MCF-SX MCFR® MCFR-S MCFR-SX MCF-SB MCF-SBX MCFR-SB	Standard stud	Caged needle rollers	Roller diameter in millimeters	Lubri-Disc Unsealed	Screwdriver slot  Hex hole	Cylindrical Crowned Cylindrical Crowned Cylindrical
MCF-SX MCFR-S MCFR-SX MCF-SB MCF-SBX MCFR-SBX MCFR-SBX		Caged needle rollers  Full complement needle rollers  Caged needle rollers	Roller diameter in millimeters	Lubri-Disc Unsealed		Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned
MCF-SX MCFR® MCFR-S MCFR-SX MCF-SB MCF-SBX MCFR-SB	Standard stud  Eccentric stud	Caged needle rollers  Full complement needle rollers	Roller diameter in millimeters	Lubri-Disc Unsealed		Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned
MCF-SX MCFR-S MCFR-SX MCF-SB MCF-SBX MCFR-SBX MCFR-SBX MCFR-SBX MCFR-SBX		Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers	Roller diameter in millimeters	Lubri-Disc Unsealed		Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical
MCF-SX MCFR-S MCFR-SX MCF-SB MCF-SBX MCFR-SB MCFR-SBX MCFR-SBX MCFR-SBX MCFE-SB		Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers	Roller diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed		Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned
MCF-SX MCFR-S MCFR-SX MCF-SB MCF-SBX MCFR-SB MCFR-SBX MCFR-SBX MCFE-SB MCFR-SB	- Eccentric stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers		Lubri-Disc  Unsealed  Lubri-Disc	Hex hole	Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical
MCF-SX MCFR-S MCFR-SX MCF-SB MCF-SBX MCFR-SBX MCFR-SBX MCFR-SBX MCFE-SB MCFR-SB MCYR-SB		Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers	Roller diameter in millimeters  Bore diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed		Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCF-SB MCFR-SB MCFR-SBX MCFR-SBX MCFR-SBX MCFR-SBX MCFR-SB MCYR-SB MCYR® MCYR-S MCYR-S MCYR-SX MCYRR® MCYR-SX MCYRR® MCYRRS	- Eccentric stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers		Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed	Hex hole	Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned
MCF-SX MCFR® MCFR-SS MCFR-SS MCF-SB MCFR-SB MCFR-SBX MCFE-SB MCFRE-SB MCYRE-SB MCYRE-SB MCYRR® MCYR-SX MCYRR® MCYRRS MCYRRS MCYRRS MCYRRS MCYRRS MCYRRS	Eccentric stud  Yoke	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers		Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc	Hex hole	Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCF-SB MCFR-SB MCFR-SBX MCFE-SB MCFRE-SB MCFRE-SB MCYR® MCYR® MCYR® MCYR-S MCYRRSX MCYRRS MCYRRSX MCYRRS MCYRRSX	- Eccentric stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers		Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed	Hex hole	Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Crowned Crowned Cylindrical Crowned Cylindrical Crowned
MCF-SX MCFR® MCFR-SS MCFR-SS MCF-SB MCFR-SB MCFR-SBX MCFE-SB MCFR-SBX MCFE-SB MCFRE-SB MCYR® MCYR® MCYR-S MCYRR® MCYRRSX MCYRRS MCYRRSX	Eccentric stud  Yoke  ty Camrol bearings	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers	Bore diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed	Hex hole Yoke	Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned Crowned Cylindrical Crowned Cylindrical Crowned Cylindrical Crowned
MCF-SX MCFR® MCFR-SS MCFR-SS MCF-SB MCFR-SBX MCFR-SBX MCFE-SB MCFR-SB MCFR-SB MCYR® MCYR-S MCYR-S MCYR-SX MCYR-SX MCYR-SX MCYR-SX MCYR-S MCYR-SX	Eccentric stud  Yoke	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers		Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed	Hex hole	Cylindrical Crowned Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SBX MCFR-SBX MCFE-SB MCFR-SB MCFR-SB MCYR® MCYR-S	Eccentric stud  Yoke  ty Camrol bearings	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers	Bore diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Lubri-Disc	Hex hole Yoke	Cylindrical Crowned
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SBS MCFR-SBS MCFR-SB MCFR-SB MCFR-SB MCYR® MCYR-S	Eccentric stud  Yoke  ty Camrol bearings  Standard stud  Yoke	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers	Bore diameter in millimeters  Roller diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Lubri-Disc	Hex hole  Yoke  Screwdriver slot	Cylindrical Crowned Cylindrical
MCFSX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCYR® MCYR-S MCYR-S MCYR-S MCYR-S MCYRRS MCYRR-S	Yoke  Yoke  Standard stud  Yoke  Yoke  Yoke	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Caged needle rollers  Double row cylindrical rollers	Bore diameter in millimeters  Roller diameter in millimeters  Bore diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Metal shield	Hex hole  Yoke  Screwdriver slot  Yoke	Cylindrical Crowned Cylindrical
MCFSX MCFR® MCFR-S MCFR-SX MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCYR® MCYR-S MCYR-S MCYR-S MCYR-S MCYR-S MCYR-S MCYR-S MCYR-S MCYR-S MCYRR-S	Yoke  Yoke  Standard stud  Yoke  Ity Camrol bearings Standard stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers	Bore diameter in millimeters  Roller diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Lubri-Disc	Hex hole  Yoke  Screwdriver slot	Cylindrical Crowned
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SB MCFR-SBS MCFR-SBS MCFR-SBS MCFR-SB MCYR® MCYR-S MCYR-S MCYR-S MCYR-S MCYRRS MCYRD® MCYRDS	Yoke  Ty Camrol bearings Standard stud  Yoke  Standard stud  Yoke  Standard stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Caged needle rollers  Double row cylindrical rollers	Bore diameter in millimeters  Roller diameter in millimeters  Bore diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Metal shield	Hex hole  Yoke  Screwdriver slot  Yoke	Cylindrical Crowned Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SB MCFR-SBS MCFR-SBS MCFR-SB MCFR-SB MCYR® MCYR-S MCYR-S MCYR-S MCYR-S MCYRRS MCYRR-S	Yoke  Yoke  Standard stud  Yoke  Ty Camrol bearings  Standard stud  Standard stud  Standard stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Caged needle rollers  Double row cylindrical rollers	Bore diameter in millimeters  Roller diameter in millimeters  Bore diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Metal shield	Hex hole  Yoke  Screwdriver slot  Yoke	Cylindrical Crowned Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCYR® MCYR-S MC	Yoke  Yoke  Standard stud  Yoke  Ty Camrol bearings  Standard stud  Standard stud  Standard stud  Eccentric stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Caged needle rollers  Double row cylindrical rollers	Bore diameter in millimeters  Roller diameter in millimeters  Bore diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Metal shield	Hex hole  Yoke  Screwdriver slot  Yoke	Cylindrical Crowned Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SB MCFR-SBX MCFE-SB MCFR-SB MCFR-SB MCFR-SB MCYR-S	Yoke  Yoke  Standard stud  Yoke  Ty Camrol bearings  Standard stud  Standard stud  Standard stud  Eccentric stud  Standard stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Caged needle rollers  Double row cylindrical rollers	Bore diameter in millimeters  Roller diameter in millimeters  Bore diameter in millimeters  Roller diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Metal shield	Hex hole  Yoke  Screwdriver slot  Yoke	Cylindrical Crowned Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SB MCFR-SBS MCFR-SBS MCFR-SB MCFR-SB MCFR-SB MCYR® MCYR® MCYRS MCYRS MCYRS MCYRS MCYRRS MCYRD® MCFD-X MCYRD® MCYRDS MCYRD® MCYRD® MCYRD® MCYRDS MCYRD® MCYRD® MCYRDS MCYRD	Yoke  Yoke  Standard stud  Yoke  Tyoke  Standard stud  Standard stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Eccentric stud  Eccentric stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Caged needle rollers  Caged needle rollers  Caged needle rollers	Bore diameter in millimeters  Roller diameter in millimeters  Bore diameter in millimeters  Roller diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Metal shield  End plug and Lubri-Disc +	Hex hole  Yoke  Screwdriver slot  Yoke  Hex hole	Cylindrical Crowned Cylindrical Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SB MCFR-SBS MCFR-SBS MCFR-SB MCFR-SB MCFR-SB MCYR® MCYR® MCYRS MCYRS MCYRS MCYRS MCYRRS MCYRD® MCFD-X MCYRD® MCYRD® MCYRD® MCYRDS MCYRDS MCYRD® MCYRDS MCYRD	Yoke  Yoke  Standard stud  Yoke  Yoke  Standard stud  Yoke  Standard stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Standard stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Caged needle rollers  Caged needle rollers  Caged needle rollers	Bore diameter in millimeters  Roller diameter in millimeters  Bore diameter in millimeters  Roller diameter in millimeters	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Metal shield  End plug and Lubri-Disc +	Hex hole  Yoke  Screwdriver slot  Yoke  Hex hole	Cylindrical Crowned Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SB MCFR-SBS MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCYR® MCYR® MCYR® MCYRS MCYRRS MCYRRS MCYRRS MCYRRS MCYRRS MCYRR-SA MCYRRS MCYRR-SA MCYRRS MCYRR-SA MCYRR-SA MCYRRS MCYRR-SA MCYRD-SA	Yoke  Yoke  Standard stud  Yoke  Tyoke  Standard stud  Standard stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Eccentric stud  Eccentric stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Caged needle rollers  Caged needle rollers  Caged needle rollers	Bore diameter in millimeters  Roller diameter in millimeters  Bore diameter in millimeters  Roller diameter in millimeters  Roller diameter in inches	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Metal shield  End plug and Lubri-Disc +	Hex hole  Yoke  Screwdriver slot  Yoke  Hex hole	Cylindrical Crowned Cylindrical Cylindrical Cylindrical Cylindrical Cylindrical Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SB MCFR-SBS MCFR-SBS MCFR-SB MCFR-SB MCFR-SB MCYR® MCYR® MCYRS MCYRS MCYRS MCYRS MCYRRS MCYRD® MCFD-X MCYRD® MCYRD® MCYRD® MCYRDS MCYRDS MCYRD® MCYRDS MCYRD	Yoke  Yoke  Standard stud  Yoke  Yoke  Standard stud  Yoke  Standard stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Standard stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Caged needle rollers  Caged needle rollers  Caged needle rollers	Bore diameter in millimeters  Roller diameter in millimeters  Bore diameter in millimeters  Roller diameter in millimeters  Roller diameter in inches	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Metal shield  End plug and Lubri-Disc +	Hex hole  Yoke  Screwdriver slot  Yoke  Hex hole	Cylindrical Crowned Cylindrical Cylindrical
MCF-SX MCFR® MCFR-SS MCFR-SS MCFR-SB MCFR-SB MCFR-SBS MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCFR-SB MCYR® MCYR® MCYR® MCYRS MCYRRS MCYRRS MCYRRS MCYRRS MCYRRS MCYRR-SA MCYRRS MCYRRS MCYRRS MCYRR-SA MCYRRS MCYRDS MCFD-X MCYRDS	Yoke  Yoke  Yoke  Standard stud  Yoke  Tyoke  Tyoke  Standard stud  Yoke  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud  Standard stud  Eccentric stud	Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Full complement needle rollers  Caged needle rollers  Caged needle rollers  Caged needle rollers  Ball or tapered roller bearings	Bore diameter in millimeters  Roller diameter in millimeters  Bore diameter in millimeters  Roller diameter in millimeters  Roller diameter in inches	Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Unsealed  Lubri-Disc  Metal shield  End plug and Lubri-Disc +	Yoke Screwdriver slot Yoke Hex hole Hex hole	Cylindrical Crowned Cylindrical Cylindrical Cylindrical Cylindrical Cylindrical Cylindrical Cylindrical



## Motion Control Solutions Regal Rexnord

Customer Service: 800-626-2120 Technical Service: 800-626-2093

CustomerService.PTSolutions@regalrexnord.com

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