

SKF MRC

Solutions for the food industry

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Table of content

Marathon® Series Corrosion-Resistant Mounted Products and Bearing Units

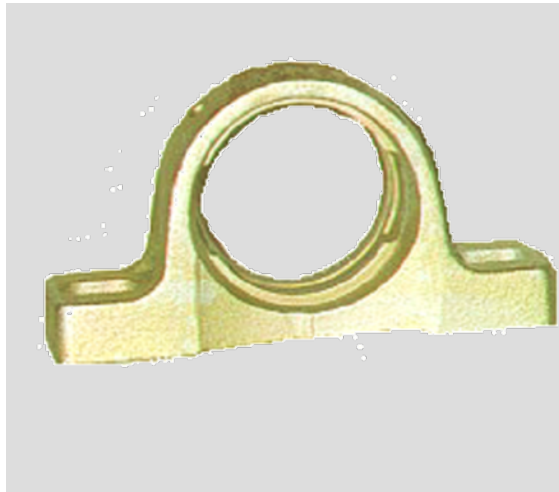
- Corrosion resistant
- No re-lubrication
- Complete assortment
- Product line additions
- Summary



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Corrosion resistant

Corrosion of the housings is eliminated via non-corrosive housing materials

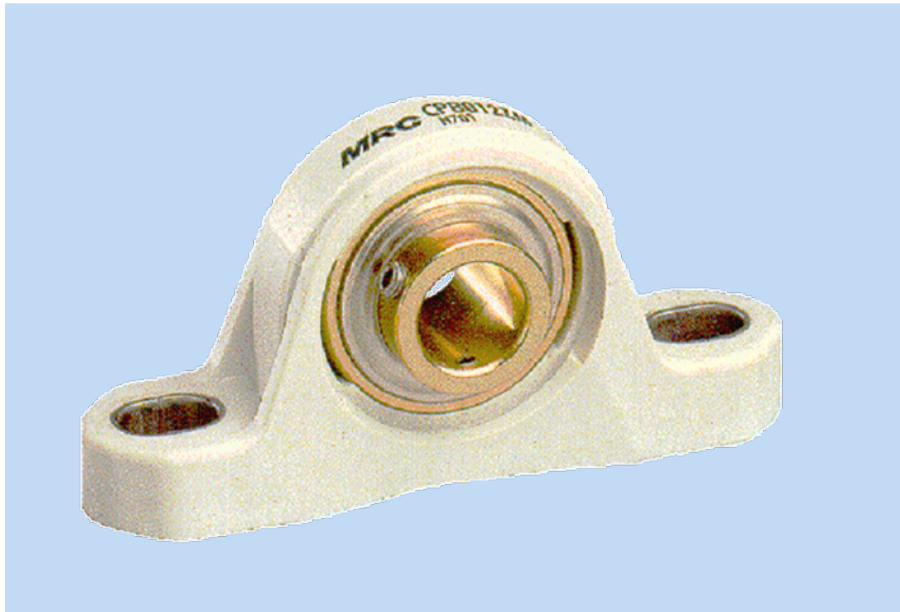


Corrosion of the bearing insert is controlled one of two ways:

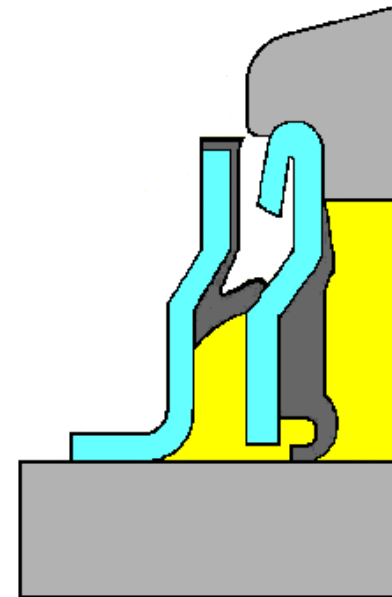
- ZMaRC Corrosion Resistant Plating over 52100 Bearing Steel
- or
- 420b Stainless Steel Rings and Balls

No re-lubrication

MRC Marathon units incorporate a 2 piece stainless steel and rubber sealing system. The result is a unit that requires no re-lubrication, thus eliminating the cause of excessive grease purge.



Marathon's double contact washdown seal



The clean running MRC Marathon Unit

Hygienic design

- Solid base free of cavities to prevent dirt and bacteria to enter, harbour and grow.
- Light grey colour to make visual inspection easy.
- Non-porous surface to resist accumulation of bacteria.
- Smooth shapes with well-radiused corners for easy cleaning
- Food-grade greased (USDA H1) to provide food against contamination.



Complete assortment: Marathon ZMaRC

- ZMaRC TM coating
 - Provides barrier against premature corrosive attack
- Stainless steel set screws
- Stainless Steel grease fitting available
- Klubersynth UH1 grease
 - USDA H1 approved synthetic grease for higher aging resistance and lubricant life

Complete assortment: Marathon Stainless Steel Units

- Ring and balls 100% stainless steel vacuum heat treated
- Stainless steel set screws
- Stainless steel double contact seal and flinger
- Stainless Steel grease fitting available
- Klubersynth UH1 grease
 - USDA H1 approved synthetic grease for higher aging resistance and lubricant life

Complete assortment: Marathon XDs Extreme Duty Stainless Steel Units

Cast stainless steel housing
Stainless steel insert bearing

- Anti-friction
- Plain

**Offered in four basic
designs**

- pillow block
- two bolt flange
- four bolt flange
- tapped base



Size Range:

3/4", 1", 1-3/16", 1-1/4", 1-3/8",
1-7/16", 1-1/2", 1-15/16"

Metric = 20mm – 40mm

MRC Brand Stainless Steel SRDG

MRC stocks the industries broadest line

Highest Quality 440-C

Stainless Steel available

**Special Heat Treatment to increase
Corrosion Resistance**

38ZZST	101KSZZST	200ZZST
R2ST	102KSZZST	201SST
R2FFST	103KSZZST	201SZZST
R3FFST	104KSZZST	202SST
R3ZZST	105KSZZST	202SFFST
R4FFST	106KSZZST	202SZZST
R4ZZST	304SZZST	203SFFST
R6FFST	305SZZST	203SZZST
R6ZZST		204SST
R8ST		204SZZST
R8FFST		205SFFST
R8ZZST		205SZZST
R10ZZST		206SST
R12FFST		206SFFST
R12ZZST		206SZZST
		207SZZST

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Complete assortment: Marathon Hdi Units

- ZMaRC coated cast iron housing
- ZMaRC coated insert bearing
- Offered in four basic designs
 - pillow block
 - two bolt flange
 - four bolt flange
 - tapped base



Expanded product range:

3/4", 1", 1-1/8", 1-3/16", 1-1/4",
1-7/16", 1-1/2", 1-15/16

Metric = 20mm – 40mm

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Corrosion & high temperature resistant Plain Bearings

- High performance plain bearings
- Makes replacement easier and less expensive
- Different composite materials to handle different temperature requirements
- Can operate in food zone
- Tolerates moderate speeds and loads



MRC Product Line Additions...

Marathon

- New “Trivalent” Zinc Yellow Chromate Coating
- Has now replaced former Hexavalent Zmarc on all Marathon Zmarc units (late 2007)
- Increased corrosion resistance
- Suitable for high temp applications
- Increased value for customer – no \$ change
- widens the gap with AMI’s “Zmarc imitation”
- retains the yellow tint – but lighter hue is distinguishable from hexavalent Zmarc



MRC Product Line Additions....

Marathon

Additional MRC bearing types will be available with new Trivalent Chromate Coating on MTO basis...

- A Large Cheese Processor has tested TCC prototype samples SRDG and found corrosion resistance superior to SS (Tier 2 import)
- Goal – available on any MRC product within 4 week window

MRC Product Line Additions...

Marathon

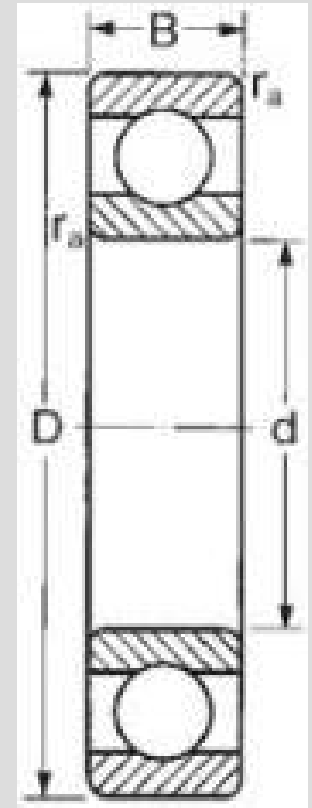
- Zmarc Coated Eccentric Locking Collar inserts I-7/16 , 1-15/16 , 1 , 1-3/16 , 1-1/4 available now from stock in Zmarc coating only (no SS)
- Nomenclature suffix = ZML (L= locking collar)
- Long awaited addition to line – particularly in West Coast and Midwest markets



Insert shown before coating

Corrosion Resistant materials

- HNCR Steel Rings matched with Ceramic Balls
- Zero corrosion even after 1 year immersion in salt bath
- Available in all ball bearing styles (except insert bearings) on a made to order basis



Summary – Marathon units

Marathon units address both major sanitation concerns:

**Corrosion on bearings or housing
and
Excessive re-greasing to purge
water**



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