



**Corrosion
Resistant
Bearing**



KML Platinum Series **Corrosion Resistant Mounted Bearing Units**

Stainless Steel and Thermoplastic Housings with all Stainless Steel Insert Bearings. Designed for applications requiring superior resistance to corrosion and available in both inch and metric bore sizes.

KML Bearing USA "Bringing Motion to Your World"
www.kml-bearing.com

KML Corrosion Resistant Washdown Units have Premium Features which maximizes productivity.



KML Corrosion Resistant Wash-down Units are premium quality. We maintain an extensive inventory of all housing styles and mounting types in our Pottstown, Pennsylvania warehouse.

KML Corrosion Resistant Thermoplastic & Stainless Steel Mounted Unit Features and Benefits

- The insert bearing is constructed of 440C stainless steel for optimum raceway and ball bearing heat treat hardening.
- The insert bearing labyrinth sealing system retains grease while providing an effective barrier to high pressure wash down.
- Mobil FM 222 food grade grease is certified for food processing applications.
- All housing units have smooth surfaces which are easily cleaned with high pressure wash down equipment.
- Exclusive High Frequency Annealing Process in the critical set screw area eliminates cracking of lock down area when tightened to recommended torque values.
- Set screws have cup point with knurled edge for positive shaft lock.
- Pillow block and tap base housings have solid base for increased strength and secure mounting.
- 2-bolt, 4-bolt and offset flange housings have solid back faces which eliminate debris collection cavities and increases overall strength.
- Insert bearings feature anti-rotation pins and grease groove on the bearing OD for exceptional grease flow.

Corrosion Resistant Mounted Bearing Unit Specifications

KML uses 440C Grade Stainless Steel in all wear surfaces of the bearing races and balls. 440C grade stainless steel alloy is heat treatable for surface hardness, dimensionally stable, corrosion resistant and durable which provides extended bearing life. Non-load carrying pieces including the slinger, retainer, grease fitting, and set screws are made from 304 Grade Stainless Steel which offers excellent corrosion resistance. Bearings are filled with Mobil FM222 food grade grease which is approved for use in HACCP compliant facilities.

Applications: The housings are available in Antimicrobial Thermo Plastic or Stainless Steel depending on the specifications of the application. These mounted bearing units are suitable for use in various applications where they are exposed to moisture, sterilization processes, corrosive elements, organic chemicals and oxidizing agents.

Stainless Steel Mounted Units



- Housings are made from 304 fine grain stainless steel for superior corrosion resistance.
- The housings are media tumbled which provides an exceptionally smooth surface that is easy to clean.
- 2 and 4-bolt flanges feature solid back faces which increase strength and reduces cavities that collect debris.
- Pillow blocks feature solid base construction for increased strength.
- Insert bearings are 440C stainless steel for optimal corrosion resistance.

Thermoplastic Mounted Units



- Reinforced PBT (Polybutylene Terephthalate) contains 10% long strand glass fiber for superior strength.
- FDA approved for food service applications.
- One piece 316 grade stainless steel bushing or thread insert increases the housing strength.
- Solid base or rear face on all housings.
- Maximum operating temperature 285°F (141°C).
- Dimensionally interchangeable to cast iron mounted unit applications.

KML Poly-Guard Sealing System

KML Poly-Guard multiple stage sealing system provides superior protection of the critical bearing area for increased service life in wash down applications. The Poly-Guard multiple stage sealing system consists of the following options:

1. Thermoplastic PBT housing machined to accept optional barrier seals that increase protection.
2. Closed thermoplastic face cap for complete front face enclosure for applications with non-protruding shafts.
3. Spring-loaded open face cap for applications where the shaft extends past the insert bearing.
4. Spring-loaded rear face seal for complete enclosure of back face mounting area.

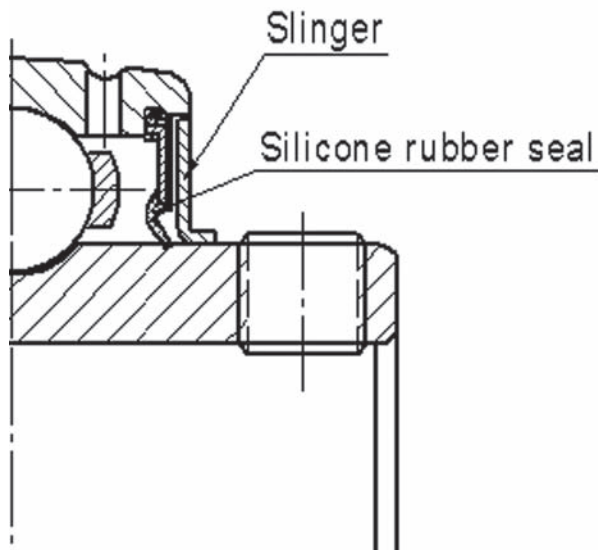


The *KML* Poly-Guard Sealing System virtually eliminates cavities where debris can accumulate. It provides significant improvement in the effectiveness of wash down operations.

Stainless Steel Insert Bearings

The inner, outer races and balls are made of 440C stainless for optimal wear resistant surface when heat treated. The slinger, retainer, grease fitting, and set screws are made from 304 stainless for improved corrosion resistance. Mobil FM 222 food grade grease completes the bearing system compatibility for food processing applications.

- Cup point knurled edge set screws provide positive locking to the shaft.
- KML high frequency annealing process in the critical set screw area eliminates cracking.
- 304 grade stainless steel slinger creates an effective outer barrier that protects the internal bearing surfaces and moves contaminants away.



- The metal backed silicon rubber seal snaps into a groove in the outer race preventing contact with the ball bearing retainer.
- Stainless steel slinger creates a labyrinth barrier channel protecting the bearing races.
- Insert bearings are filled with Mobil FM 222 food grade grease which is approved for HACCP compliant facilities.

KML Platinum Series

Corrosion Resistant Mounted Bearing Units are available in all popular Types and Styles.

Corrosion Resistant Units	Pillow Block	Tapped Base Pillow Block	2-Bolt Flange	4-Bolt Flange	Offset Flange Bracket	Take-up Units
Stainless Steel Housing	•	•	•	•	•	•
Thermo Plastic Housing	•	•	•	•	•	•



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