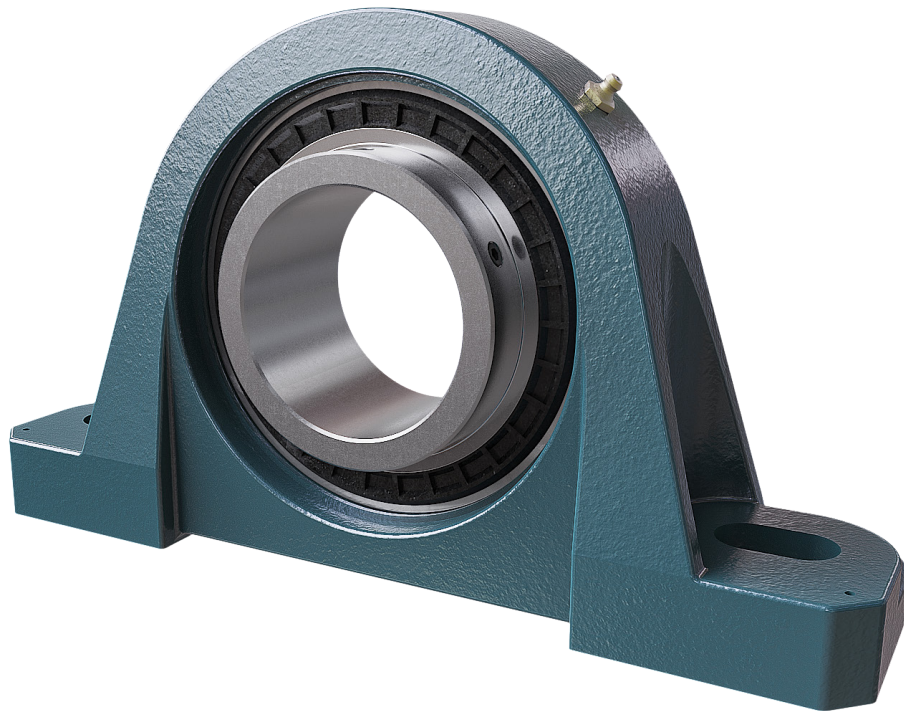


REPLACEMENT & AFTERMARKET

PILLOW BLOCK BEARINGS



Collaborate / Create / Convey

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PILLOW BLOCK BEARINGS



Pillow Block Bearings

Conveyor systems operating in harsh industrial environments subject horizontal drive, tail, and idler shafts to extreme vertical loads, heavy vibration, and particulate contamination. Without adequate structural support and contamination barriers, horizontal mounting systems experience shaft misalignment, while abrasive ingress compromises internal rolling elements, leading to catastrophic component failure and unscheduled downtime.

Engineered with precision-machined housings constructed from cast iron, ductile iron, steel, or stainless steel, these units maintain precise base-to-center height dimensions and bolt hole alignment. The assemblies integrate case-hardened rolling elements and specialized sealing technologies, serving critical positions across standard and heavy-duty conveyor spans. Fabricated in 2-bolt and 4-bolt configurations, the bearings provide exact dimensional matching for existing retrofit applications and primary drive installations.

APPLICATIONS



Recycling And Sort Stations

Variable material loads and frequent equipment repositioning introduce dynamic vibration and torque stresses to rotating components. Eccentric locking collars establish a positive mechanical grip around the shaft circumference to resist loosening under constant system vibration.



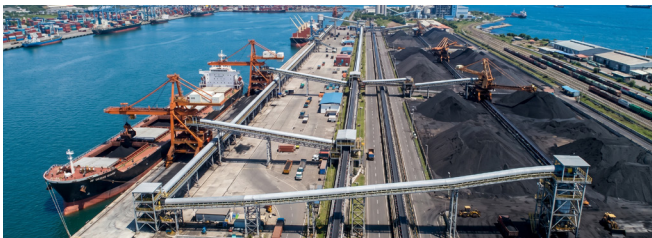
Aggregate Handling Conveyors

Heavy dust environments subject system components to extreme abrasive particulate ingress and high shock conditions during bulk material transfer. Four-bolt housing configurations reinforced with triple lip seals support primary drives and heavily loaded transfer points while blocking external contamination.



Washdown And Food Processing

Corrosive environments and strict sanitation protocols expose standard components to chemical degradation and moisture ingress. Stainless steel housing and insert combinations provide required corrosion resistance while maintaining proper load distribution across the bearing base.



Long Conveyor Spans

Expansive mechanical structures experience thermal expansion and structural settling that complicate precise horizontal shaft alignment. Spherical roller bearing pillow blocks accommodate up to $\pm 2^\circ$ of dynamic misalignment without sacrificing radial load capacity.



Standard Package Handling

Moderate speed and load applications require compact component footprints for tight structural integration within existing conveyor frames. Two-bolt housings equipped with dual set screws deliver secure shaft engagement for tail shafts and idlers.

KEY FEATURES

01

Dual Set Screw Mechanism:

Engages the shaft surface directly to provide standard locking for applications with moderate speeds and operating loads.

02

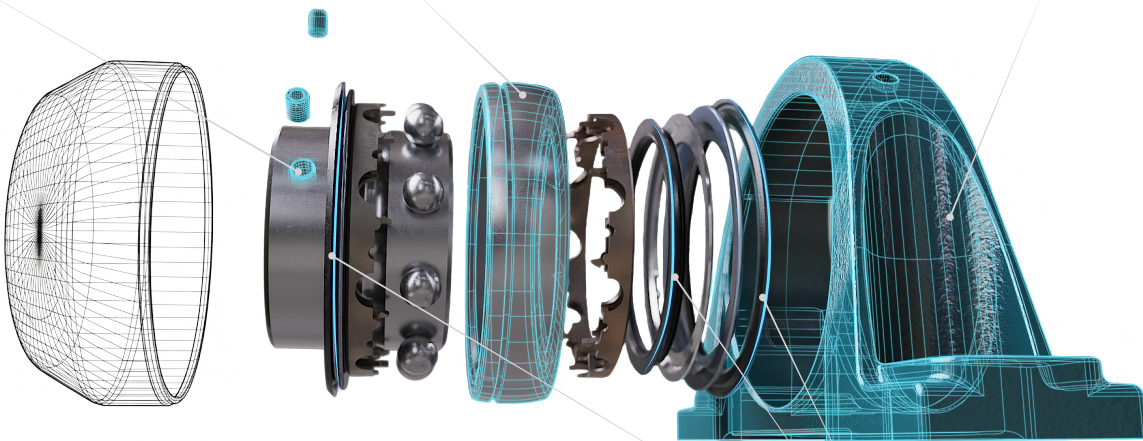
Eccentric Locking Collar:

Distributes clamping force around the entire shaft circumference to prevent loosening under high torque and vibration without marring the surface.

03

Stainless Steel Housing Construction:

Replaces standard cast iron components with specialized alloys specified for chemical exposure and outdoor washdown environments.



04

Wide Inner Ring Insert:

Increases the dimensional contact area between the shaft and bearing bore to satisfy higher dynamic load rating requirements.

05

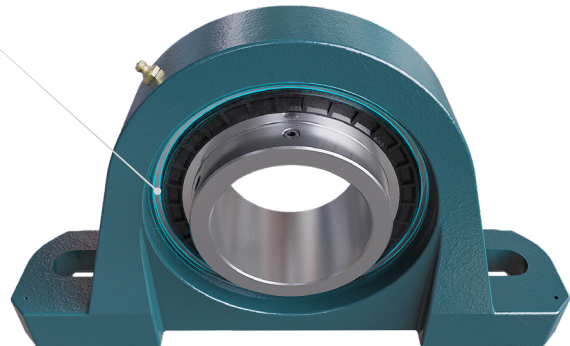
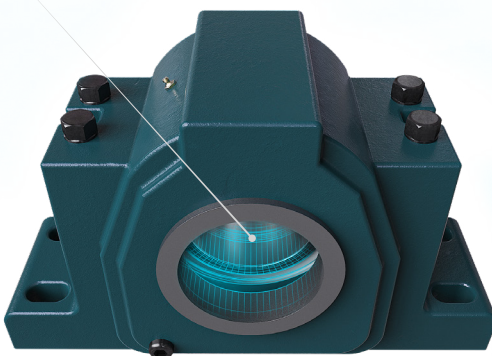
Labyrinth Bearing Isolator:

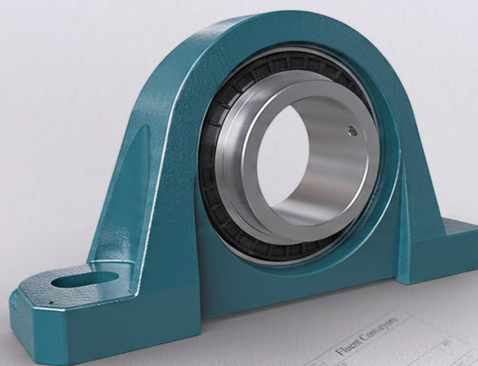
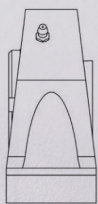
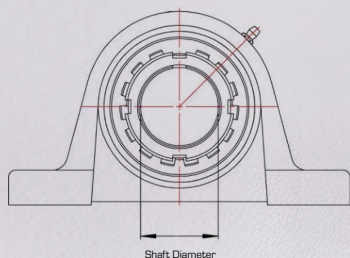
Utilizes non-contact internal geometries to repel extreme contamination while facilitating necessary internal pressure equalization.

06

Triple Lip Contamination Seal:

Establishes a three-stage mechanical barrier to prevent particulate ingress in heavy dust and aggregate operations.





PILLOW BLOCK BEARINGS SPECIFICATIONS

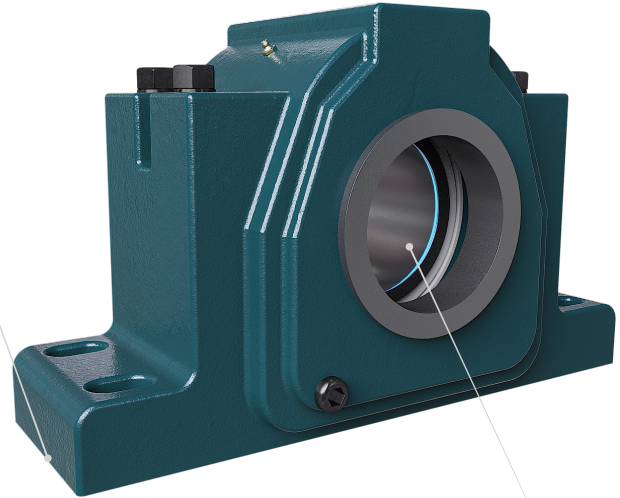
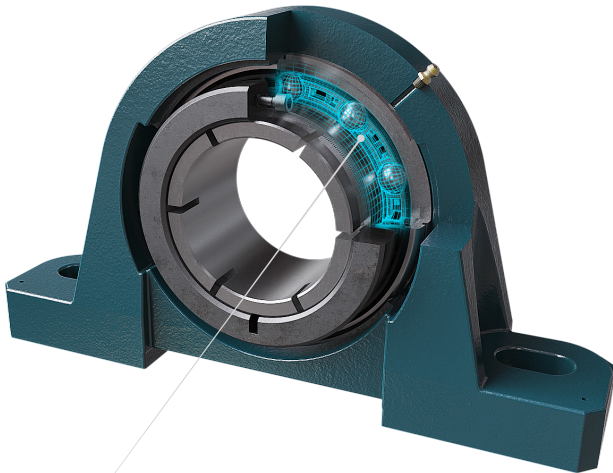
Parameter	Standard Specification
Shaft Diameter	Up to 8"
Bolt Configuration	2-bolt, 4-bolt
Housing Material	Cast iron, ductile iron, steel, stainless steel
Insert Bearing Types	Ball, tapered roller, spherical roller
Locking Method	Set screw, eccentric collar
Seal Types	Contact seals, triple lip, bearing isolators
Misalignment Tolerance	Up to $\pm 2^\circ$
Relubrication	Grease fittings standard
Operating Temperature	-20°F to 250°F

THE ENGINEERING ADVANTAGE

This section outlines the structural methodology behind pillow block bearings, covering precision geometry and material processing to ensure optimal load distribution and extended service life.

Precision-Machined Base Geometry:

Maintains consistent base-to-center height dimensions and bolt hole patterns to ensure exact shaft alignment and even load distribution across the cast iron base.



Positive Mechanical Grip Distribution:

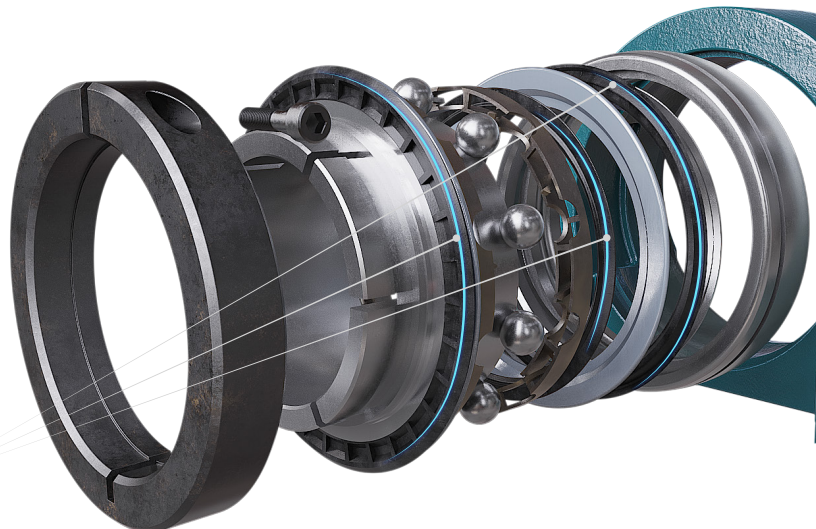
Applies uniform radial clamping pressure via eccentric collars to secure shafts against vibration without creating point-load indentations.

Case-Hardened Rolling Element Integration:

Hardens the internal rotating components and utilizes precision-ground raceways to reduce wear rates and push L10 life ratings beyond industry standards.

Three-Stage Labyrinth Seal Profiling:

Integrates non-contact sealing barriers to block extreme contamination ingress while preserving the factory-applied lubrication within the bearing core.



CONTACT INFORMATION

OUR ENGINEERS WILL SPEC THE EXACT PART FOR YOUR SYSTEM

For product specifications, engineering support, or order inquiries, please contact our team using the information provided below. Our specialists are available to ensure accurate recommendations and efficient service for your application requirements.

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