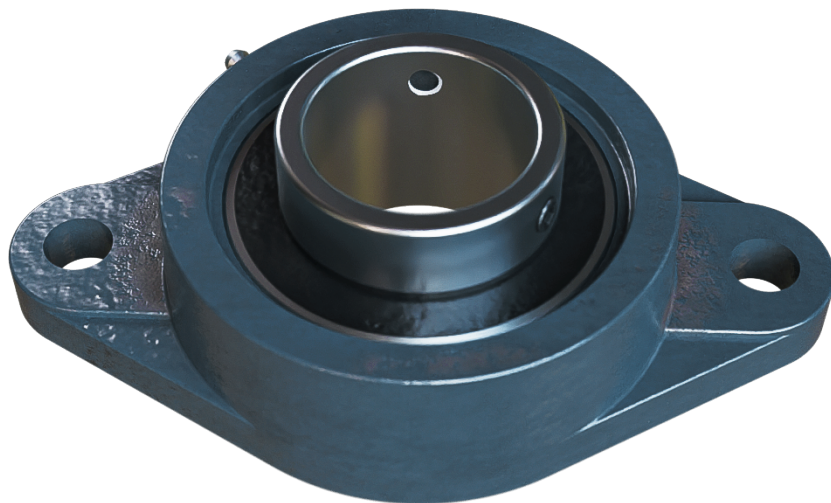


REPLACEMENT & AFTERMARKET

2-BOLT FLANGE BEARINGS



Collaborate / Create / Convey

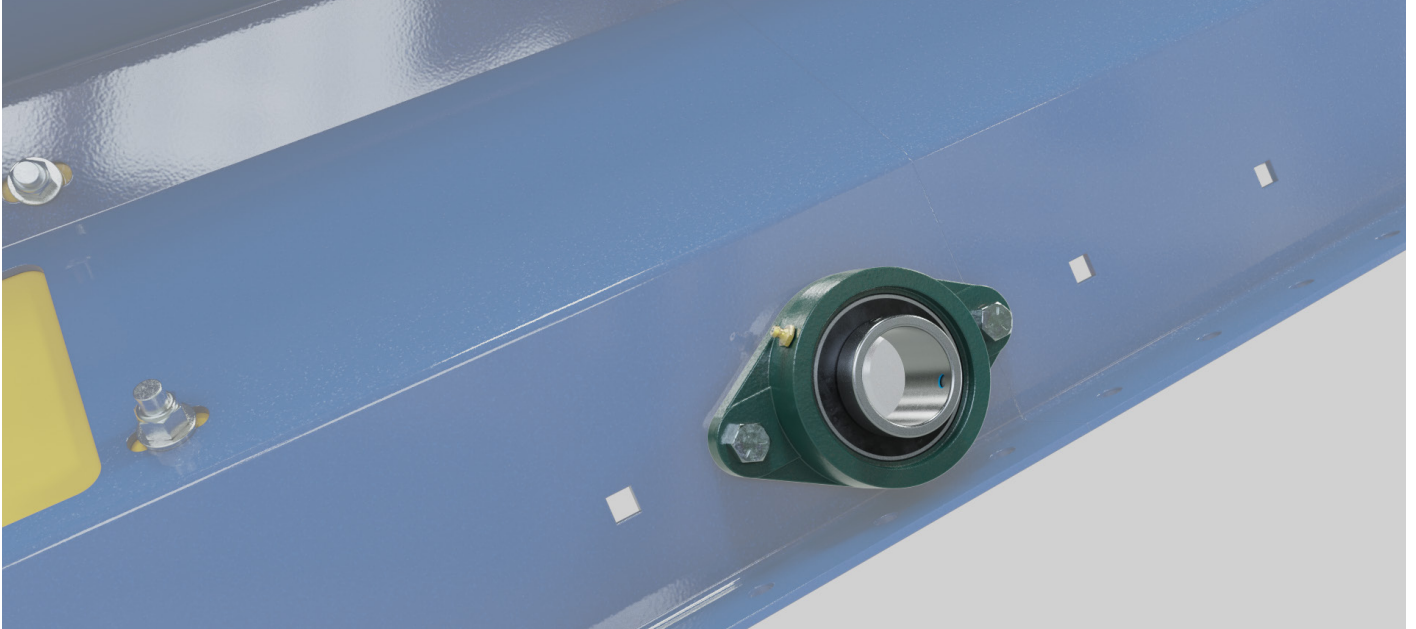
TABLE OF CONTENTS

2-Bolt Flange Bearings	02	Product specifications	05
Applications	03	The Engineering Advantage	06
Key Features	04	Contact Information	07

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2-BOLT FLANGE BEARINGS



2-Bolt Flange Bearings

2-bolt flange bearings provide vertical shaft support for conveyor head, tail, and idler assemblies in space-constrained layouts. Operating in continuous material handling environments, unsupported or misaligned shafts lead to accelerated component wear, excessive vibration, and structural failure. Securing the shaft perpendicular to the mounting frame distributes light to moderate radial and thrust loads to prevent catastrophic equipment downtime.

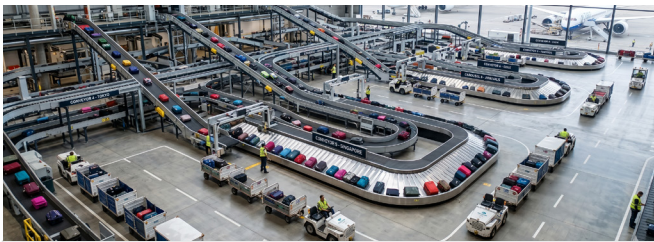
Constructed with cast iron, thermoplastic, or stainless steel housings, these units utilize set screw or eccentric collar locking mechanisms to engage the shaft. Case-hardened rolling elements and precision-ground raceways manage friction and accommodate thermal expansion when converted to an expansion configuration. Engineered for general replacement and retrofitting, the bearing assemblies match ISO and ABMA standards for direct drop-in installation on vertical mounting surfaces.

APPLICATIONS



Waste & Recycling

Built for demanding waste and recycling conveyors, flange bearings ensure stable alignment under heavy loads and contamination. Sealed against debris and moisture, they deliver reliable 24/7 performance with reduced maintenance.



Material Handling & Distribution

Conveyor head and tail shafts operate under constant radial loads where traditional horizontal base mounting obstructs adjacent hardware. 2-bolt flange units mount vertically to equipment frames to support rotating shafts while maintaining a compact operational footprint.



Food Processing & Packaging

Sanitary conveyor lines necessitate high-pressure washdown cycles that corrode standard steel components. Thermoplastic housings combined with NSF H1 food-grade grease resist chemical degradation and maintain hygienic compliance.



Chemical & Marine

Caustic chemicals and extreme moisture exposure rapidly degrade standard cast iron bearing materials. Stainless steel housings paired with AISI 440 stainless inserts provide necessary corrosion resistance.



Heavy Dust Environments

Aggregate and bulk material handling generates airborne particulate that penetrates standard bearing seals. FloBack seal geometries redirect abrasive contaminants away from the internal bearing cavity.

KEY FEATURES

01

Set Screw Locking Mechanism:

Threaded directly through the wide inner ring to create shaft surface dimples that resist rotation and axial movement on hardened shafts.

02

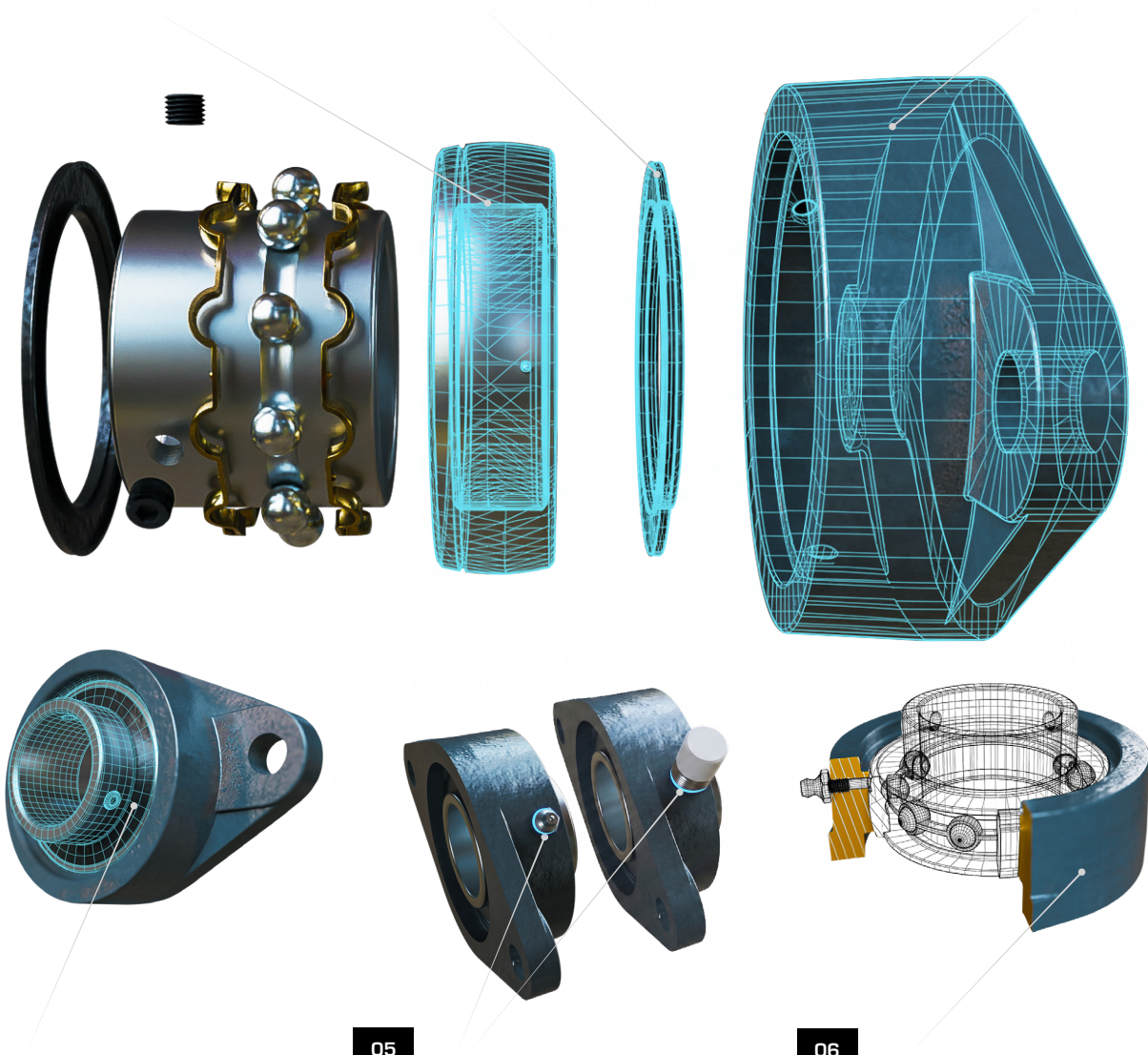
Triple Lip Contact Seals:

Three specialized sealing lips maintain physical contact to exclude moisture and dust while permitting scheduled grease relubrication.

03

Thermoplastic Housing Construction:

Formulated from glass-reinforced polymers to withstand repetitive washdown cycles in sanitary processing facilities.



04

FloBack Contamination Seals:

Geometric seal design actively redirects airborne debris away from the bearing raceway in highly particulate environments.

05

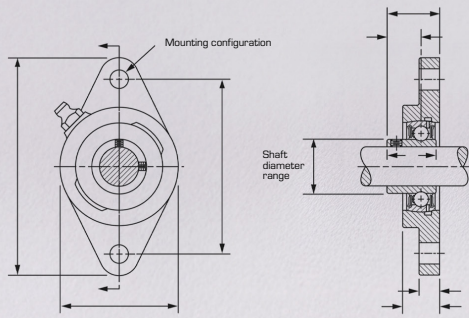
Smart Sensor Receptacle:

Select housings feature pre-drilled and tapped access points to accept OPTIFY vibration and temperature monitoring hardware.

06

Eccentric Collar Locking:

Wraps around the shaft circumference to generate a uniform clamping force for reliable axial control in higher vibration applications.



2-BOLT FLANGE BEARINGS SPECIFICATIONS

Parameter	Standard Specification
Bearing families	DL, SC, SCM, SL, SLX, SXR, SXRAG, SXV, VSC
Bearing types	Ball, tapered roller, spherical roller
Shaft diameter range	3/4" – 3-7/16" (depend on bearing family)
Locking mechanisms	Set screw, eccentric collar, Grip Tight concentric clamp, tapered adapter sleeve
Mounting configuration	2-bolt diamond pattern (45° rotation)
Lubrication	Factory pre-lubricated with relubrication provisions
Expansion capability	Expansion and non-expansion configurations
Duty classifications	Standard, light, washdown, backside, food-safe
Standards compliance	ABMA and ISO standards
Note: Bolt hole spacing, specific expansion capability, operating temperatures, and dynamic/static load ratings vary by bearing series, seal selection, and shaft size.	

Housing Material

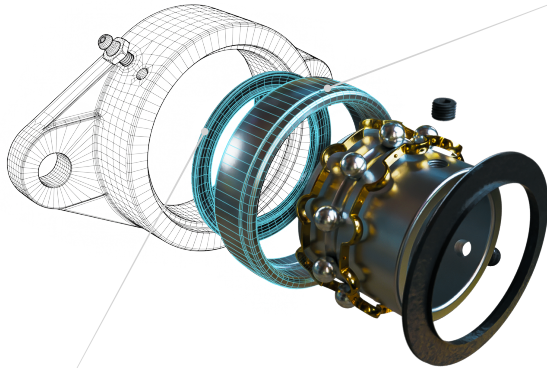
Image	Housing material	Duty classification	Operating environment
	Cast iron	Standard duty	General industrial conveyor applications with moderate temperatures and dry to moderately dusty conditions.
	Thermoplastic	Washdown duty	Food processing and packaging applications requiring corrosion resistance, hygiene, and NSF H1 grease compatibility for incidental food contact.
	Stainless steel	Heavy duty	Harsh chemical environments, marine applications, or extreme moisture exposure requiring high corrosion resistance.

Seal Configuration

Seal type	Mechanical function	Operating environment
Triple lip contact	Three sealing lips provide dust ingress protection and moisture exclusion while permitting grease relubrication.	Standard industrial applications.
FloBack	Seal geometry redirects contaminants away from the internal bearing cavity.	Extremely dusty environments.
Labyrinth	Non-contact architecture eliminates contact friction and subsequent heat generation.	High-temperature and high-speed applications.

THE ENGINEERING ADVANTAGE

This section outlines the mechanical design methodology behind 2-bolt flange bearings, covering structural material choices and operational adaptability to ensure proper system alignment and extended service life.



Field-Convertible Expansion Configuration:

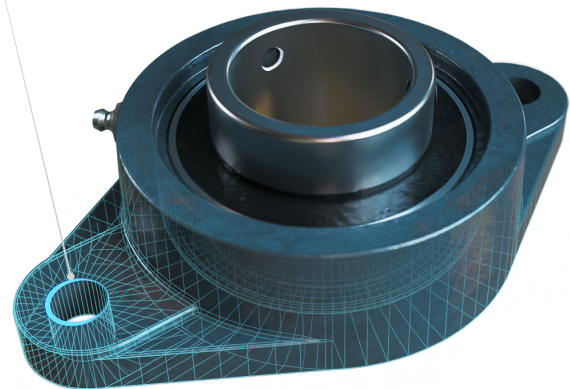
Snap-ring and spacer removal allows the inner bearing unit to float axially and accommodate thermal shaft growth.

Precision-Machined Mounting Faces:

Flat flange faces and exact bolt hole positioning ensure perpendicular alignment to the shaft centerline to prevent uneven load distribution.

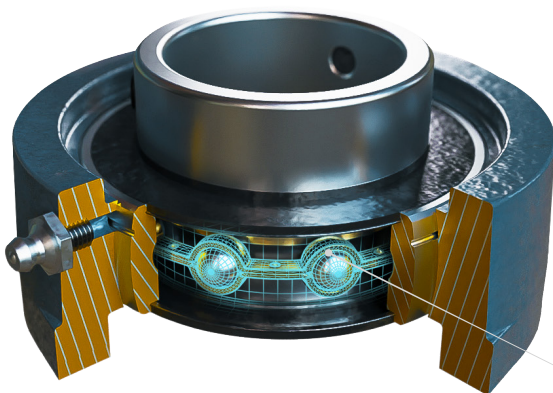
Labyrinth Non-Contact Sealing:

Frictionless seal architecture prevents excessive heat generation in high-speed or high-temperature conveyor applications.



Case-Hardened Rolling Elements:

Precision-ground internal raceways and hardened ball bearings reduce mechanical wear rates under continuous radial loads.



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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