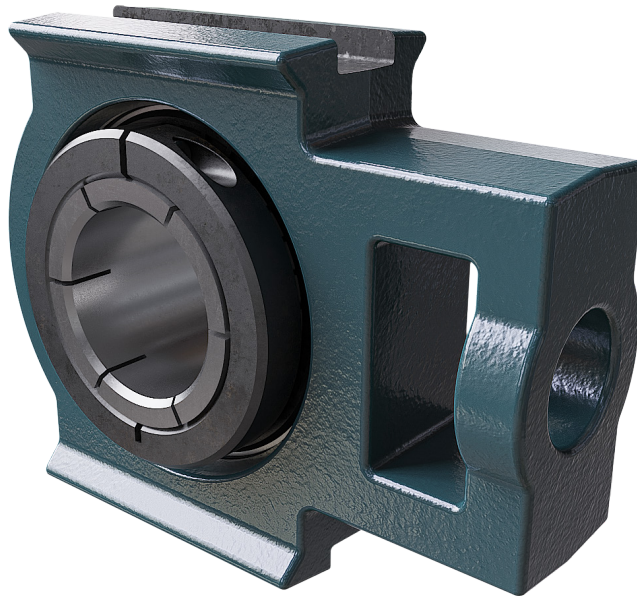


REPLACEMENT & AFTERMARKET

TAKE-UP BEARINGS



Collaborate / Create / Convey

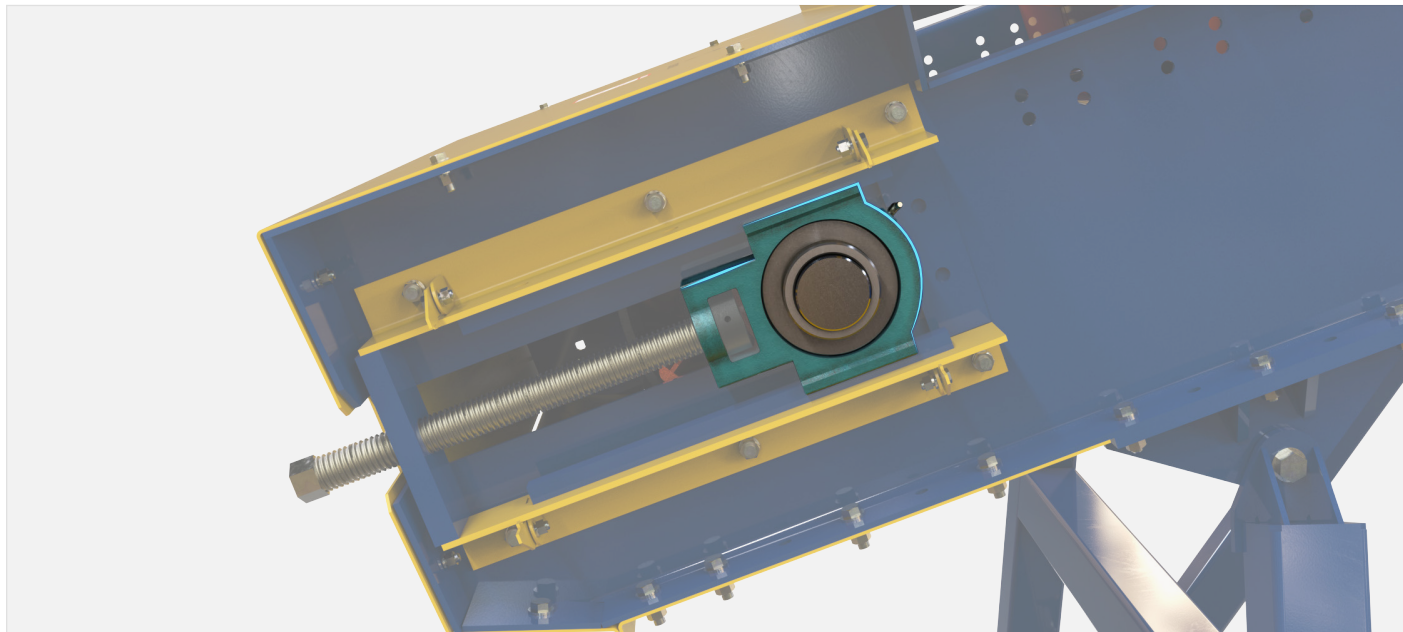
TABLE OF CONTENTS

Take-Up Bearings	02	Product specifications	05
Applications	03	The Engineering Advantage	06
Key Features	04	Contact Information	07

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TAKE-UP BEARINGS



Take-Up Bearings

Conveyor systems experience continuous belt stretch, thermal expansion, and mechanical wear during break-in and sustained operation. Without accommodation for these dimensional changes, shafts can bind, bearings overload, and belts slip at drive pulleys, leading to excessive material spillage and premature equipment failure. Friction, ambient temperature, or material contact exacerbate this thermal growth on shafts longer than 4 feet.

Take-up bearing units feature a slotted housing that slides within a frame, combining a sealed insert with a linearly moving support structure. Constructed with ball, spherical roller, or tapered roller inserts, these components permit tension adjustment without disassembling the conveyor. Installed as paired fixed and expansion units, they maintain precise shaft positioning at one end while allowing axial sliding at the other to manage thermal growth across various mounting frames.

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.



Aggregate And Mining

Heavy industrial environments introduce extreme radial loads, shock impacts, and severe particulate contamination. Spherical roller take-up units manage these forces while accommodating up to $\pm 2^\circ$ of angular misalignment, utilizing triple-lip seals to exclude abrasive dust.



Food Processing

Washdown protocols and strict sanitation standards demand components capable of withstanding moisture and chemical exposure. Stainless steel housings equipped with food-grade grease and end covers protect internal rolling elements from contamination and bacterial accumulation.



Material Recovery

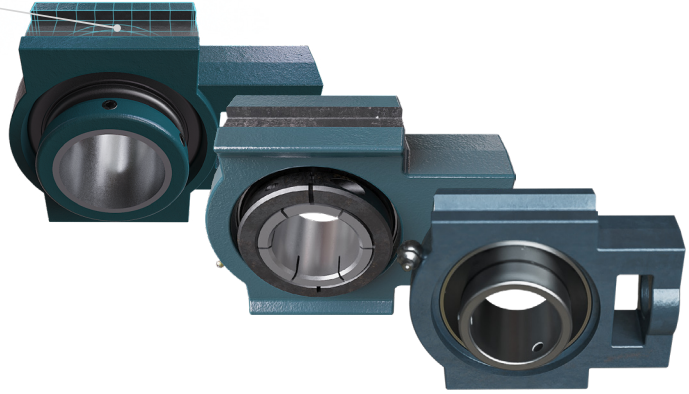
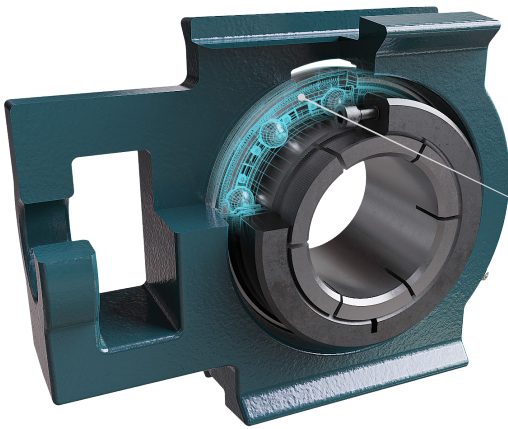
Continuous conveying operations cause ongoing belt elongation and require regular tracking corrections. Slotted take-up bearings permit precise lateral shaft adjustments to restore correct tension and align belt tracking without removing the component from service.

KEY FEATURES

01

Slotted Housing Geometry:

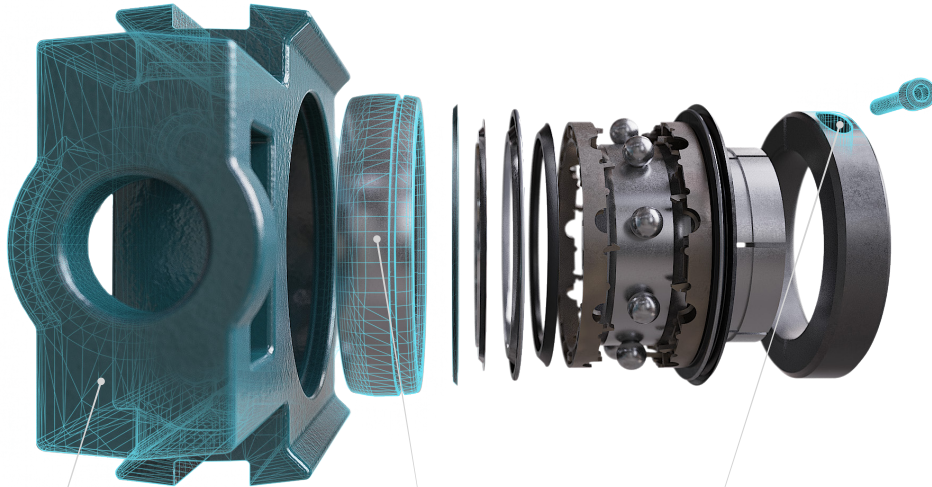
Permits linear movement within top-angle, center-pull, or wide-slot mounting frames to facilitate belt tension adjustment.



02

Triple-Lip Seal Assembly:

Excludes abrasive dust and fine particulate matter in aggregate and recycling environments to protect internal rolling elements.



03

Stainless Steel Housing Construction:

Resists degradation in corrosive or washdown environments while integrating with food-grade lubrication specifications and end covers.

04

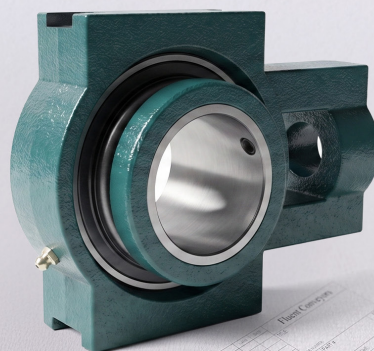
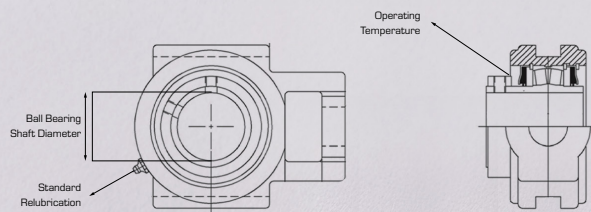
Eccentric Collar Locking Mechanism:

Provides elevated holding power and resistance to loosening under vibration during reversing loads or high-speed operations.

05

Adapter Sleeve Mounting:

Delivers maximum holding force with minimal shaft runout for tapered roller applications managing combined radial and thrust loads.



TAKE-UP BEARINGS SPECIFICATIONS

Parameter	Standard Specification
Ball Bearing Shaft Diameter	1/2" to 5"
Spherical Roller Shaft Diameter	1-7/8" to 5"
Tapered Roller Shaft Diameter	1-3/8" to 4"
Operating Temperature	-20°F to 250°F (-29°C to 121°C)
Maximum Speed (Ball Bearings)	Up to 3,600 RPM
Misalignment Tolerance (Spherical)	Up to ±2°
Standard Relubrication	Grease fittings (1/8-27 NPT)

Bearing Type Selection

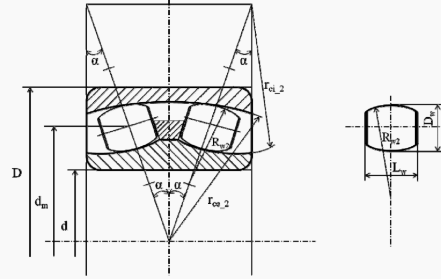
Bearing Type	Load Characteristics	Speed Profile
Ball Bearings (Type G, GXR, GM)	Moderate radial loads	Higher speeds (up to 3,600 RPM)
Spherical Roller (S-2000, Safety Mount)	Heavy radial loads, shock loading	Moderate speeds
Tapered Roller (Type E, Type K)	Combined radial and thrust loads	Precise positioning applications

THE ENGINEERING ADVANTAGE

This section outlines the tension management methodology behind take-up bearings, covering load distribution and dimensional accommodation to ensure continuous component functionality.

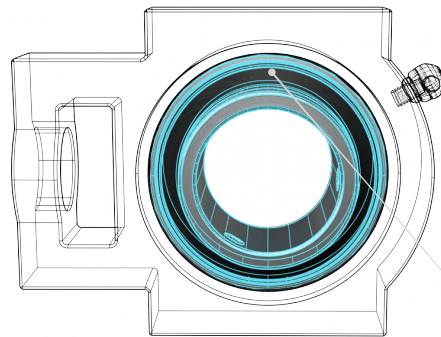
Case-Hardened Rolling Element Construction:

Reduces wear rates through precision-ground raceways and hardened inserts to extend L10 life ratings.



Double-Row Spherical Geometry:

Utilizes barrel-shaped rollers running on a common outer ring raceway to enable self-alignment under extreme shock loading.

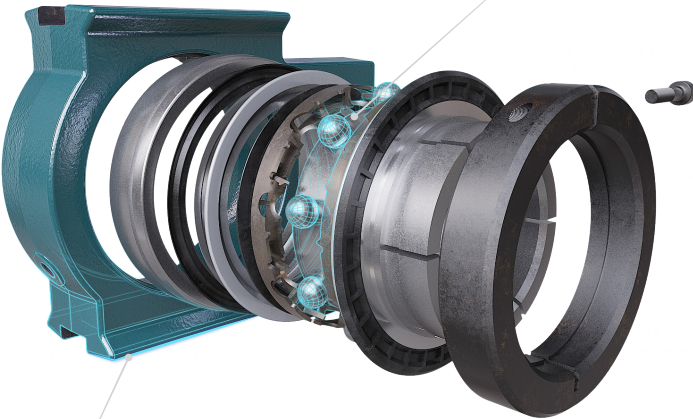


Precision-Machined Housing Base:

Maintains consistent base-to-center height dimensions and precise mounting bolt hole patterns across the cast iron structure.

Fixed and Expansion Shaft Orientation:

Constrains the drive end while allowing the tail end shaft to slide axially within the bearing inner ring to manage thermal growth.



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.

Reach Us Directly

Email

Send us your questions or requests, and we'll respond promptly.

sales@fluentconveyors.com

Phone

Call us for immediate assistance and technical support.

[+1\(866\) 764-2980](tel:+18667642980)

Business Hours

Monday - Friday

8:00 AM – 5:00 PM MST

Departments

Sales & Quoting

Product pricing, availability, and order placement.

sales@fluentconveyors.com

Customer Service

Product pricing, availability, and order placement.

[+1 \(303\) 390-1228](tel:+13033901228)

Engineering

Technical specs, application review, custom configurations.

engineering@fluentconveyors.com