



SOLVE 

INDUSTRIAL MOTION GROUP

**SOLUTIONS FOR
MINING & AGGREGATES**

Solutions by Solve

Nothing tests the strength and performance of heavy-duty equipment — and their bearings and power transmission components — like a day on the job at a mining or aggregates processing operation. Punishing loads, constant vibration, extreme temperatures, and the never-ending swirl of dust, dirt, and other contaminants make for a challenging environment.

Owners and operators need equipment and components they know are up to the task.

Solve's portfolio of bearings and power transmission components for mining and aggregates processing are engineered and tested to stand up to the harshest conditions.

Our bearings, belts, sheaves, bushings, couplings, and seals are constructed using the latest processes and materials and are supported by a international network of sales and service specialists.

When unplanned downtime is not an option and extended maintenance cycles are a requirement, you need proven products from a trusted partner.

You need Solutions by Solve.





SAF & SDAF Series Split Pillow Blocks

Solve's Split Pillow & Metric Plummer Blocks

- **Built for Tough Applications** – Handles heavy loads, varying speeds, and constant vibration.
- **Versatile Sizing** – Shaft sizes from 3/4" to 24".
- **Durable Housing Options** – Available in Cast Iron, Ductile Iron, or Cast Steel.
- **Enhanced Protection** – Multiple seal options for harsh environments.

Solve's Mounted Bearings – Built for Strength & Ease

- **Rugged Base** – Designed for superior durability and stability.
- **Easy Installation & Removal** – Pry slots and match markings ensure proper fit.
- **Reliable Performance** – Maintains precise bearing seat alignment.
- **Versatile Options** – Available with spherical roller bearings, double-row ball bearings, and multiple seal choices.



SAF



SNG



SDAF



S 3000K

Spherical Roller Bearings

- **High-Capacity Performance** – Designed for extreme conditions like shock loads, shaft deflections, and contamination.
- **Self-Aligning Design** – Two rows of rollers in a spherized outer ring ensure smooth operation even with misalignment.
- **Dual Functionality** – Combines radial and thrust bearing capabilities for superior load handling.
- **Reliable in Tough Environments** – Performs under marginal lubrication, extreme speeds, and critical application stresses.



Seals & Adapters

- **Essential Protection** – Seals safeguard bearings from contaminants, extending lifespan and ensuring peak performance.
- **Versatile Options** – Designed for harsh environments with multiple sealing solutions.
- **Standard LER Seal** – Triple labyrinth aluminum seal with industry-standard dimensions for easy interchangeability.
- **LER with Dust Cover** – Adds extra protection against debris and contaminants.
- **PER Seal** – Features an O-ring shaft seal for enhanced sealing performance.
- **Drop-In Taconite Labyrinth** – Provides a grease barrier and O-ring for superior protection, even during misalignment.
- **Standard & Metric Bore Adapters** – Available for tapered bore Spherical Roller Bearings and Double-Row Ball Bearings.
- **Compatible with Pillow & Plummer Blocks** – Designed for seamless integration with standard housings.
- **Hydraulic Adapter Option** – Offered for larger sizes, allowing easy removal and adjustment during installation.
- **Precision Installation** – Helps correct bearing position if initial placement is incorrect, ensuring optimal performance.

ALUMINUM LABYRINTH



LER



PER, PER-PTV



LER-DC
Dust Cover Wiper Seal

DROP-IN TACONITE LABYRINTH



TER, TER-OS

ADAPTERS



SNW & SNP Series
Inch-Based Threads



H Series
Metric-Based Threads



Standard
Withdrawal Sleeves



Hydraulic Adapter



Hydraulic Nut

Unitized Roller Bearings

Assembled
in the USA



Solve's unitized roller bearing units from PTI:

- **Rugged & Ready-to-Install** – Unitized roller bearing units available in 1-7/16" to 5" and 40mm to 125mm shaft sizes.
- **High-Capacity Performance** – Withstands shock loads, shaft deflections, marginal lubrication, extreme speeds, and contamination.
- **Durable Ductile Iron Housing** – featuring a solid base for rugged duty and reliable operation. Material strength virtually identical to cast steel at a fraction of the cost.
- **Double Row Spherical Roller Bearings** – Offer +/- 1-1/2° of static or dynamic misalignment.
- **Easy Installation** – Set Screw Lock Collars simplify mounting.
- **Premium Lubrication** – Comes pre-filled with lithium grease (-22°F to 290°F) for optimal performance.
- **Interchangeable Designs** – SR2200 series matches "2000" series; SRE models compare to "E" dimensioned products.
- **Enhanced HNBR Triple Lip Seals** – Standard for superior high-temperature performance and improved chemical resistance compared to NBR.

PILLOW BLOCKS



SRE-PB2
2-Bolt Pillow Block

1-7/16" thru 3-1/2" Shaft Sizes



SR2-PB2
2-Bolt Pillow Block

1-7/16" thru 4" Shaft Sizes



SRE-PB4
4-Bolt Pillow Block

2-11/16" thru 5" Shaft Sizes



SR2-PB4
4-Bolt Pillow Block

2-11/16" thru 5" Shaft Sizes

FLANGES



SR2-FB4
4-Bolt Flange

1-7/16" thru 4" Shaft Sizes



SR2-FC4
Piloted Flange

1-7/16" thru 4" Shaft Sizes

TAKE-UPS



SR2-WSTU
Wide Slot Take-Up

2-7/16" thru 4" Shaft Sizes

Belts, Sheaves & Shaft Bushings

- **Critical Role in Mining** – Belt drives are essential in the crushing, screening, and conveying stages of mining and aggregate processing.
- **Heavy-Duty Design** – Engineered to meet the demands of quarry equipment, Solve offers single- and banded-belts, sheaves, and bushings from MasterDrive.
- **Shock Load Resistance** – Banded belts are ideal for heavy shock load applications and environments with pulsating loads.
- **Enhanced Stability** – Lateral rigidity prevents belt whip, turnover, vibration, and jumping off in multiple drive applications.
- **Durability and Low Maintenance** – Corded belts feature a high-density, flexible compression rubber layer that reduces stretch and eliminates the need for constant tension adjustments.
- **Inch and Metric Sheave Options Available**



QD Sheaves



DST Sheaves



TB Sheaves



BTS Sheaves



QD Bushings



DST Bushings



TB Bushings



HTD Timing Pulleys



L&H Timing Pulleys



Weld-On Hubs



Timing Belts



V-Belts

Your Source for Power Transmission Components



Mounted Ball Bearings



Corrosion-Resistant
Mounted Ball Bearings



Split Block Roller Bearings



Unitized Mounted
Roller Bearings



Spherical & Cylindrical
Roller Bearings



Tapered Roller Bearings



Deep Groove & Angular
Contact Bearings



Needle Roller Bearings



Cam Followers &
Yoke Rollers



Spherical Plain Bearings
& Rod Ends



Sheaves



Timing Pulleys



QD, DST & Tapered
Shaft Bushings



Weld-On Hubs



MD Flex Couplings



Jaw Couplings



Sprockets



Precision Roller Chains



Corrosion-Resistant
Roller Chain



V-Belts & Timing Belts

Solve Industrial Motion Group is an industry-leading manufacturer and supplier of industrial-grade bearings and power transmission components.

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