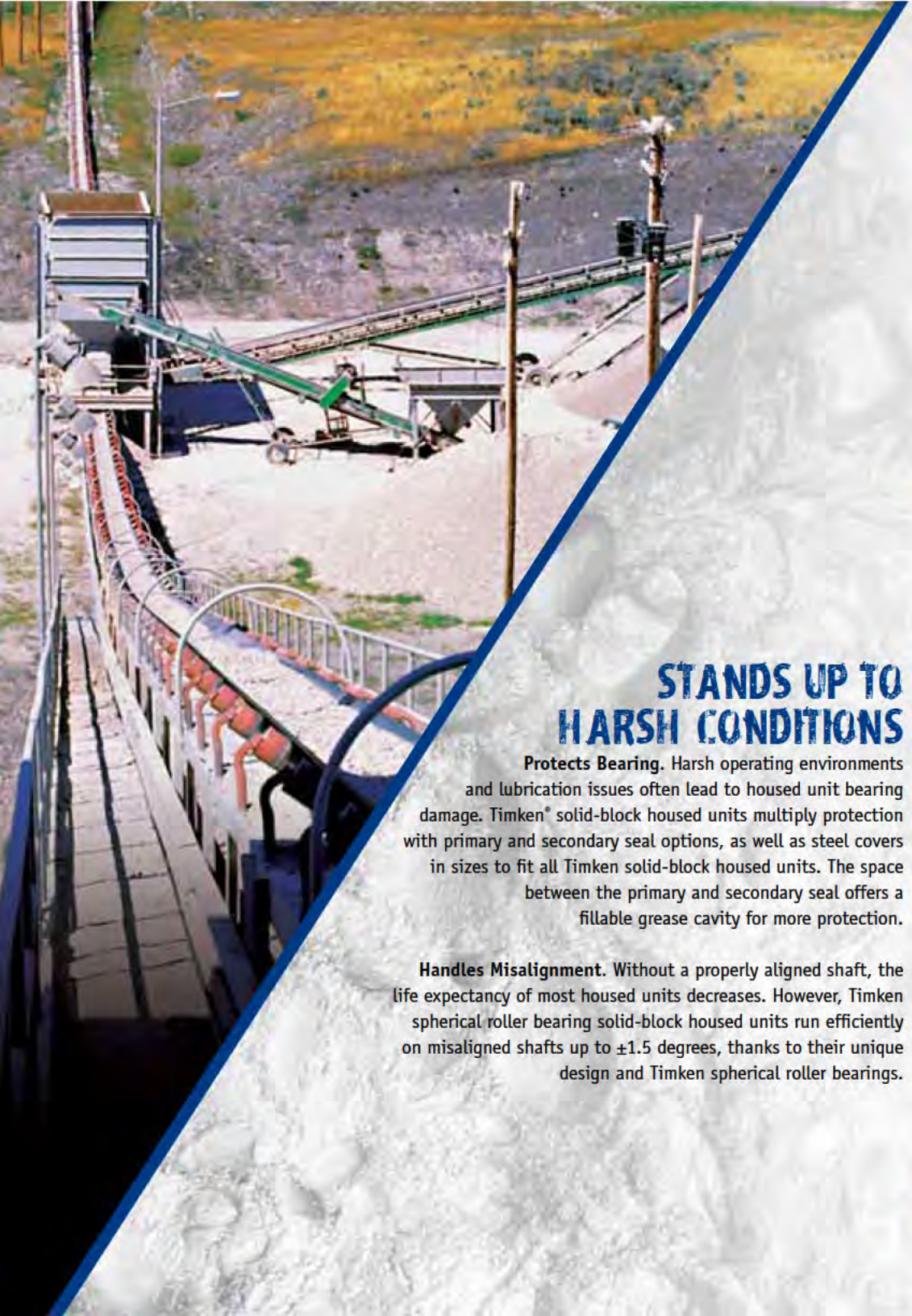
TIMKEN

TOUGH. MEET TOUGHER.

Timken®
Spherical Roller Bearing Solid-Block Housed Units



STANDS UP TO HARSH CONDITIONS

Protects Bearing. Harsh operating environments and lubrication issues often lead to housed unit bearing damage. Timken® solid-block housed units multiply protection with primary and secondary seal options, as well as steel covers in sizes to fit all Timken solid-block housed units. The space between the primary and secondary seal offers a fillable grease cavity for more protection.

Handles Misalignment. Without a properly aligned shaft, the life expectancy of most housed units decreases. However, Timken spherical roller bearing solid-block housed units run efficiently on misaligned shafts up to ±1.5 degrees, thanks to their unique design and Timken spherical roller bearings.

THE TOUGH CHOICE

Today's industrial operations depend on housed unit bearings to keep things moving – particularly in demanding conditions and highly contaminated environments.

That's when bearings in these units need to be safely protected in rugged steel housings. Steel is tougher than cast iron, which can break or pound out in tough applications.

Timken® offers a full-line of precision-made solid-block housings with shaft-locking options and seals. Of course, they come with Timken's high-performance spherical roller bearings.

CUSTOMIZE TO YOUR NEEDS

- **Wide range of choices.** Timken's comprehensive product offering interchanges with virtually all solid-block roller bearing units.
- **Quicker installation time.** Machined feet, tapped puller holes, black oxide inner rings and multiple shaft locking choices make it simple to install this heavy-duty unit.
- **Increased uptime.** Robust steel housing, wide variety of seal choices and a high-performance Timken roller bearing result in increased unit uptime.
- **Multidirectional shaft expansion.** Double-nut housing allows in-field conversion from fixed to floating in either direction.
- **One-time shaft alignment** on all housing unit styles. Machined feet ends allow for precise installation and blocking for faster future unit replacement.
- **Fewer misalignment issues.** Bearings accept up to ±1.5 degrees of misalignment.
- **Easier removal** with standard withdrawal holes on all piloted-flanged units.
- **Multiple available sizes** accommodate shafts from 1 $^{7}/_{16}$ inches to 7 inches (40 mm to 180 mm).
- **More seal options.** Optimize performance in highly contaminated environments.
- **Protection against over-lubrication.** Pressure relief valves come standard when unit is ordered with non-purgeable seals.
- **Increased shaft-holding power** and reduced shaft damage. Eccentric lock series is designed to stay tight in reversing applications on precision-ground shafts.
- **Efficient built-to-order manufacturing.** Quick delivery of customized configurations for specific applications.

Solid steel housings by Timken are built to last, so you can keep your business operations running. Precise manufacturing methods with tighter tolerances and innovative designs are key to higher quality, stronger housings.

HOUSING STYLES

Choose the housing configuration that fits your need. For your convenience, Timken offers interchange solutions for hundreds of other housed units that simply don't offer the strength of these solid-block designs.

Two-Bolt Pillow Block

Four-Bolt Pillow Block

Flange Block

Piloted-Flange Cartridge

Take-Up Block

Cartridge Block

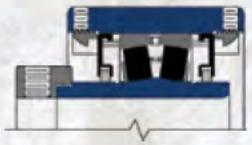
LOCKING CONFIGURATIONS

CL Series – Single Set Screw Lock

- Heavy-duty.
- Simple installation.
- Minimal runout.

CL Series – Double Set Screw Lock

- Extra heavy-duty.
- Simple installation.
- Increased holding power.

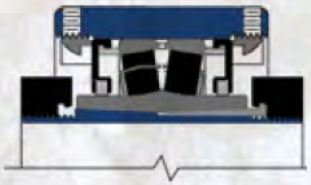


EC Series – Eccentric Lock

- Heavy-duty.
- Increased shaft holding power.
- Reduced shaft damage under extreme shock loads.
- Designed not to release in reversing applications.

TA/DV Series – Tapered Adapter Lock

- Extra heavy-duty.
- 360 degrees shaft holding.
- Accommodates undersized shafting.



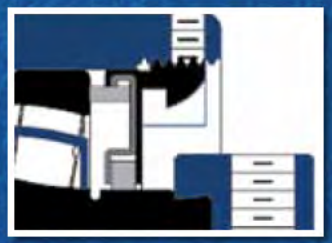
V-Lock Series – Double Taper Lock

(U.S. Pat. No. 7344313)

- Extreme heavy-duty.
- 360 degrees shaft holding.
- Designed to eliminate over-tightening.
- Mechanical withdrawal for easier removal.
- Larger bearings and higher load rating compared to competitive products having same bore size.

SEALING OPTIONS

Timken experts can help you select the right locking style and seal for your needs. Contact your Timken sales engineer for assistance.



Labyrinth Seals – DuPont™ Teflon®

- High-speed applications.
- Superior in dirty and wet conditions.
- Able to operate at high temperatures.
- Resistant to most chemicals.
- Abrasion-resistant.

Triple-Lip Seals – Nitrile

- Self-purging.
- Excellent in moist and dirty applications.
- Chemical- and corrosion-resistant.

Triple-Lip Seals – Urethane

- All the benefits of Nitrile, plus it's resistant to abrasion.

TIMKEN® STEEL AUXILIARY COVERS

Give your housed unit roller bearings extra protection with rugged, cost-effective covers. They're designed to fight heavy contamination in industries where particulates are a challenge, such as forestry, steel, mining, pulp and paper, aggregate and cement. These steel covers are treated with black oxide for enhanced corrosion protection.

- Choose from open- and closed-ended options for multiple configurations and applications.
- Select shaft sizes from 1 $^{7}/_{16}$ inches to 5 inches (40 mm to 130 mm).
- Easily remove covers for on-site housed unit inspection and replacement.
- Bolt covers onto standard Timken spherical roller bearing solid-block housed units.
- Fill cover with grease for an extra barrier of protection.

HARSH CONDITIONS

Call For Extreme Solutions

When your equipment faces harsh environments, you need roller bearing housed units rugged enough to outlast tough conditions and deliver exceptional performance.

You gain both with Timken spherical roller bearing solid-block housed units.

Timken spherical roller bearing solid-block housed units withstand the impact of falling debris and handle up to ±1.5 degrees of misalignment. Made of cast-steel housings and durable seals, Timken spherical roller bearing solid-block housed units offer protection from contaminants.

INCREASE PERFORMANCE AND DURABILITY
DECREASE OVERALL COST OF OWNERSHIP

INDUSTRIES AND APPLICATIONS

- Metal Mills
- Aggregate and Cement
- Mining
- Power Generation
- Sawmills and Other Forest Products Industries
- Pulp and Paper
- Material Conveying
- Commercial and Industrial Building Products
- Sugar Mills
- Agriculture
- Waste Management and Waste Water Treatment
- Off-Highway and Construction Vehicles
- HVAC, Fans and Blowers
- Cranes, Lifts and Hoists

TIMKEN QUALITY AND PERFORMANCE

The Timken name stands for high quality and outstanding performance. By leveraging our know-how in bearing technology, manufacturing, engineering support and distribution, we provide you with smart, cost-effective friction-management and power transmission solutions to magnify your performance.

Superior Materials. As the only premium bearing manufacturer to also make super-clean, high-alloy bearing steels, we understand the critical quality link between materials and product performance.

Quality Solutions. We manufacture our bearings, housings and covers to a consistently high standard - no matter where in the world they are manufactured, due to our global Timken Quality Management System (TQMS).

Dependable Service. We back every purchase of a roller housed unit with industry-leading service experts ready to assist you with product design, application knowledge and 24/7 field support.

On-Time Delivery. Short lead times are critical to keeping your operations up and running. We ship most orders within 24 to 48 hours, because we understand how important the right rugged housed units are to your operations.

Find out more about our commitment to quality by visiting www.timken.com, keyword "Quality."

To learn more about our expanded series of Timken® roller housed units and our extensive offering of other friction management products and services, contact your local Timken representative or **visit www.timken.com.**

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TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets high-performance mechanical components, including bearings, gears, chain and related mechanical power transmission products and services.

www.timken.com

Stronger. **Commitment.** Stronger. **Value.** Stronger. **Worldwide.** Stronger. **Together.** | **Stronger.** By Design.