

# Ball Bearing Housed Units for Material Handling

Timken® Fafnir® housed units help reduce maintenance costs and increase uptime. With a nylon retainer to separate the balls, they operate quietly and dependably in the most demanding material handling applications.

Take-up units are used where shaft alignment and belt tightening devices are required. The most common application is conveyors. Frames for take-up units provide side or top mounting.

Easy-to-install Timken safety end caps protect exposed rotating shafts, reducing hazards around many types of equipment. The patent-pending design meets all applicable OSHA requirements. The caps consist of a mounting ring and snap-on cover, both molded in a durable, bright-yellow polymer. The end cap snaps into the adhesive-backed ring that adheres to the outboard face of most flanged bearing housings. The secure, 360-degree fit makes for a rugged unit that also provides basic protection from contaminants and washdown.

## Timken's Shaft Guarding Technology

Timken has introduced one of the easiest-to-install housed units available. It's the same setscrew locking process you've used for years, but now it comes with a locking enhancement that matches the premium performance of Timken. It provides shaft protection and prolongs the life of the shaft – no nicks, raised metal or permanent shaft damage. You'll find Timken's patented shaft guarding technology where production uptime is critical and shaft replacement is expensive.

Where traditional setscrew products rely on the setscrews to dig into the shaft to maintain grip, Timken's shaft guarding technology transfers the pressure of the setscrews through a stainless steel, hardened band. This absorbs the problems encountered from relative motion typically associated with setscrew product. The stainless band will not corrode to the shaft.

Shaft guarding technology exceeds gripping application requirements, maintains dimensional integrity and reduces fretting corrosion. It locks to the shaft like a traditional setscrew, but with new benefits.

### Increases uptime:

- *Faster and easier installation and removal*
- *Requires less shaft preparation*

### Reduces total cost:

- *Reduces number of shaft replacements*
- *Faster installation and less downtime*

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*Timken® Fafnir® housed units help increase uptime and reduce costs for material handling applications.*

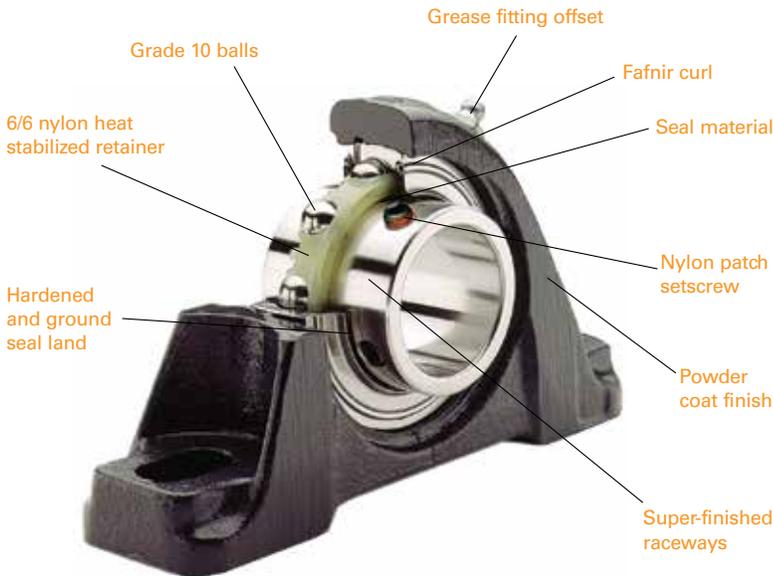
Timken offers a complete line of application-specific, custom-formulated lubricants that help bearings and components operate efficiently in industrial environments. High-temperature, anti-wear and water-resistant additives offer superior protection in the harshest conditions. You can turn to Timken for all the friction management products you need to extend life, boost productivity and reduce downtime.



# The Material Handling Industry Turns to Timken® Fafnir® Housed Units

| FEATURE                            | BENEFIT  |
|------------------------------------|--|
| Fafnir curl                        | Mechanical attachment of seal is secure, resisting “pop-out” during re-lube and inhibiting spinning of the seal in the outer ring seal groove.                               |
| Seal material                      | Buna-N rubber has cotton fiber, embedded to wick oil, which enhances lubrication and improves sealing integrity.   |
| Super-finished raceways            | Even surfaces reduce friction, leading to cooler, quieter running and longer life.   |
| Hardened and ground seal land      | Seal protected from inner ring abrasion, resulting in less wear (longer life) and prolonged seal integrity.  |
| Grade 10 balls                     | Quiet and smoother-running bearings resulting from higher specification steel and improved roundness.  |
| Double-filtered polyurea grease    | Particles that can cause noise in application are removed. Improved lubrication cleanliness also leads to superior performance at higher speeds.                             |
| 6/6 nylon heat stabilized retainer | Excellent misalignment capability. Resists size changes and moisture trapping. Non-corrosive and self-lubricating, as well as resistant to abrasion, wear and most solvents. |
| Special quality steel              | Fewer carbides, inclusions and voids result in reduced risk of stress risers that can cause premature fatigue.   |
| Grease fitting offset              | Minimized risk of accidental and side impact, while maintaining accessibility for single-point lubricators.  |
| Powder coat finish                 | Chipping, scratching and subsequent exposure to parent metal is reduced, helping to prevent corrosion.   |
| Housing tolerances                 | Better grease purge throughout the bearing due to reduced risk of grease purge at outer diameter.  |

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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, belts, chain and related mechanical power transmission products and services.