



Timken® Ball Bearings

Proven solutions for high-speed operation and combined loads.

Timken® angular contact and deep groove ball bearings deliver dependable operation across a wide range of industrial applications. Engineered with premium materials, precision manufacturing and advanced design features, they help you reduce downtime, improve efficiency and extend equipment life.

Whether you need high-speed capability under combined loads or quiet, low-friction performance in electric motors and pumps, Timken ball bearings give you proven solutions. Timken ball bearings are dimensionally interchangeable with some competitive products and backed by global application expertise.

Applications Across Industries

Timken ball bearings support critical motion in:

- Electric motors, pumps and compressors
- Gear drives and conveyors
- Agricultural equipment (tractors, combines, corn headers, and other machines)
- Marine workboat gear drives
- Data center cooling systems
- Wastewater treatment

Deep Groove Ball Bearings



Timken deep groove ball bearings offer high-speed performance, low friction, and controlled vibration. Super-finished raceways, optimized internal geometry and premium lubrication reduce energy use and noise while extending service intervals, delivering reliable precision and uptime for motors, pumps, and other critical applications.

Customer advantages

- **Longer service life.** Super-finished raceways reduce friction and wear, allowing equipment to run more efficiently and stay in service longer.
- **Quieter operation.** Built to meet electric-motor quality standards, these bearings minimize vibration and noise for smoother running and a better operator experience.
- **Coverage for nearly any need.** A broad range of sizes and configurations – including open, shielded, sealed, miniature, thin-section and heavy-duty – simplifies sourcing.
- **Easy interchange.** ISO metric dimensions allow direct replacement of competitive bearings without redesign or costly modifications.
- **Extra strength when conditions demand it.** Brass cage options add durability under shock loads, high vibration, and rapid acceleration.
- **Premium lubricants.** Mobil Polyrex™ EM premium lubricant comes standard on all Timken sealed and shielded deep groove ball bearings.

Preferred C3 clearance helps maintain proper operating clearance as temperatures rise and fall.

Angular Contact Ball Bearings



Timken angular contact ball bearings manage high speeds and combined radial and axial loads with superior rigidity and precision. Available in single-row, double-row and matched-set configurations, they give you the flexibility to optimize performance for pumps, compressors, electric motors and other high-demand equipment.

Customer advantages

- **Handles high speeds and combined loads.** Delivers reliable performance by supporting both radial and axial loads at high operating speeds.
- **Extended bearing life.** Enhanced raceway finish reduces friction, vibration and wear to improve reliability and lower replacement frequency.
- **Superior protection.** Robust sealing options and premium lubrication help keep contaminants out and lubrication in, reducing maintenance and downtime.
- **Built for your application.** Multiple cage designs, preload options, contact angles and sealing configurations let you select the ideal solution.
- **Easy replacement, backed by experts.** Our ISO-standard, dimensionally interchangeable designs are supported by Timken's global network of application and field engineers.

Back-to-back arrangements accommodate thermal expansion for improved thermal stability. Brass, polyamide and steel cage options address specific needs for strength, misalignment capability or reduced torque.

Proven solutions for high-speed operation and combined loads.

Timken angular contact and deep groove ball bearings combine proven performance, broad availability, and premium engineering to keep your equipment running longer and more efficiently.



The Timken Difference

Timken connects you to a global team of engineers dedicated to designing and delivering bearings tailored to your needs. From start to finish, we provide support to ensure your expectations are not just met but exceeded, earning your trust and confidence. With Timken, you gain:

Engineered Excellence:

Over a century of innovation tailored to customer needs.

Proven Durability:

Optimized for harsh environments.

Global Quality:

Consistent manufacturing standards worldwide.

Lifetime Support:

From design to maintenance, Timken experts are by your side.

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 bearings, gear drives, automated lubrication systems, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

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