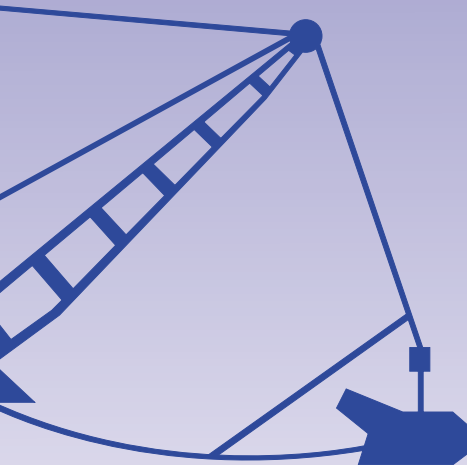
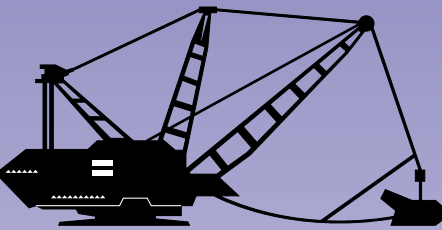
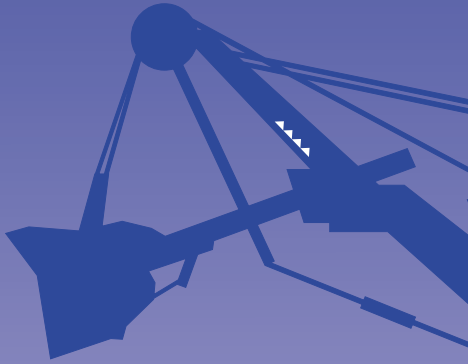
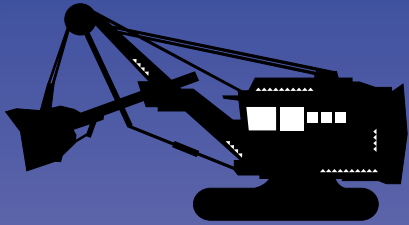


Timken performance roller bearings for:

- Power Shovels
- Draglines



THE TIMKEN COMPANY

Timken® Spherical Bearings Provide Durable, Cost-Effective Solutions for Mining Equipment

Timken is the brand of choice for mining equipment, particularly power shovels and draglines – applications that demand performance under heavy loads, severe misalignment and harsh operating environments.

Our worldwide reputation for technical excellence in tapered roller bearings is now applied to our line of spherical bearings. With more than 100 years in the industry, we continue to apply proven techniques in metallurgy and design engineering to our new and existing bearing lines.

We realize that misalignment is a concern in mining. Our expanded offering of spherical roller bearings accommodate misalignment better than tapered designs, and our two-row unit makes installation easy – you'll quickly return to full operation without in-shop adjustments.

About Timken® Spherical Bearings

Timken® spherical bearings incorporate our core competencies in metallurgy, bearing design and metrology. This expertise makes our spherical bearings attractive for many applications, including mining, oil drilling, rolling mills and gear drives. In fact, when you combine our spherical line with our cylindrical and tapered products, Timken offers virtually every part number for your operation.

The Timken Company continues to identify ways to enhance our bearing performance within mining equipment. Our newest offering, a sealed spherical design, maintains proper lubrication in harsh conditions. Your Timken sales representative or distributor can provide more information on this new product and other options.





- **Timken spherical bearings maintain productivity in harsh environments**
- **Access to enhanced products, such as debris resistant bearings and bearing repair, to enhance performance and prolong bearing life**
- **Authorized distributors now maintain stock of Timken spherical, cylindrical and tapered bearings for your equipment**

Timken spherical roller bearings are also competitively priced – whether for new applications or as replacement parts. Our offering includes today's most popular sizes, and authorized distributors are integrating Timken sphericals into their stock, allowing you to keep your equipment running between maintenance schedules. It's the best of both worlds – Timken quality and availability with competitive pricing.

Adding value to your operation

Our design and research teams work with you in developing new bearing designs for mining equipment. Shared knowledge and experience is part of the added value you receive from Timken. We don't just manufacture bearings; we analyze your needs and assist in tailoring solutions.

Solutions for heavy debris environments

Debris, including dirt, metal and other materials, can cause premature bearing failure. Timken offers a more advanced level of protection in debris environments – Timken Debris Solutions – through high-performance bearings and a customized service package.

Our debris-resistant roller bearings are manufactured to be stronger, more ductile and tougher than standard bearings. They deter crack initiation and last longer in the most demanding applications. These debris-resistant products are enhanced by our Debris Signature AnalysisSM, a computerized diagnostic tool that analyzes debris patterns, points out potential faults in new equipment and calculates bearing life for preventive maintenance plans. Timken Debris Solutions provide additional resources for severe mining applications.

A history of performance

The level of control that results from The Timken Company's integrated manufacturing processes provides a high level of quality – bearing after bearing. That ensuing reliability makes Timken a recognizable name in mining. A long standing history of superior application and maintenance knowledge is available to you so that you can maximize uptime while reducing your maintenance costs.

For more information on Timken spherical, cylindrical and tapered bearings in mining equipment, contact your local Timken sales representative or locate an authorized distributor online at www.timken.com.