

# Generating a Place in Your Industry

# TIMKEN



Power generation customers turn to Timken for reliable products and services that improve equipment performance and uptime. You seek products that perform better and last longer. Our bearings have withstood the test of time and proven their ability to meet the industry's needs for productivity and reduced overall costs.

More than a century of knowledge and experience in design, application and process engineering is integrated into every Timken tapered, spherical, cylindrical and ball bearing. The result is a high level of durability and extended performance within bowl mill journal wheels, gear drives, slurry pumps, conveyors and other power generation equipment.



## Expansion and Innovation to Meet Your Demands

Timken is continuously expanding our product line to meet the size and configuration demands of our customers. Our heritage in roller bearings has given us the know how to optimize and innovate across our lines of cylindrical, spherical and tapered roller bearings. Timken offers premium high-performance across every bearing line as the standard. Give us a try and you'll see we can go pound for pound with any bearing in the industry.

## Cylindrical Roller Bearings

We've taken the knowledge gained in the field by our design and application engineers to create an expanded line of world-class cylindrical roller bearings. This expanded line provides customers across a range of industries with a high quality solution.

Nothing demonstrates this commitment to satisfying our customers more than the new EMA series of cylindrical roller bearings. Through Timken innovations, we've improved our single-row series by offering a machined brass cage that is designed to increase capacity, lower operating temperature and improve design life.

The complete Timken line of cylindrical roller bearings provides a quality solution for your toughest applications. Our enhanced product line includes single-, two- and four-

row configurations as well as full complement designs ranging from 60 mm inner diameter to 2130 mm outer diameter.

## Spherical Roller Bearings

Our design engineers are optimizing our products to maximize customer performance and value. With our enhanced and expanded spherical roller bearing product line Timken now offers spherical roller bearings up to 1200 mm in outer diameter.

Timken's spherical roller bearings are rated higher than the leading competitors and offer cooler operating temperatures. Our innovative design features – cage enhancements, optimized internal geometries and surface finishes – are designed to lead to enhanced durability, longer bearing life, lowered operating temperature and higher product reliability.

## Timken Solution Success:

### Innovative Solution Pulverizes Damage Issues

Every three months, Pacific Gas & Electric (PG&E) of Indiantown, Florida, was experiencing severe bearing damage in its pulverizers causing significant downtime and material costs. PG&E contacted Timken to help identify the problem and investigate solutions.

Within a month engineers from both organizations had researched and developed a solution: a tapered/cylindrical bearing combination, made with debris-tolerant steel, which replaced the previous configuration of standard bearings. The new bearing design fits into the existing envelope and has extended bearing life by five times the previous design. When the original PG&E bearing configurations fail, they are now replaced with this solution. This Timken-inspired solution may save PG&E more than \$300,000 by preventing multiple failures.

Timken's ever expanding lines of cylindrical, spherical and tapered roller bearings provide the quality and performance power generation customers demand. Pair these products with our world-class application and service engineering capabilities and you have a total solution you can trust.

### The Timken Difference

- **Designed to last**  
Our global engineering team collects performance requirements from around the world and designs our bearings to meet the specifications our customers demand.
- **Our material quality is second to none**  
Timken is the only premium bearing manufacturer in the world that manufactures clean, high-alloy steel. We use this knowledge to ensure material quality in our bearings.
- **Manufacturing excellence**  
Timken Worldwide Quality Standards are implemented in every one of our manufacturing facilities, so every one of our bearing meets the same performance standards – no matter where in the world it is manufactured.
- **Timken experts are your experts.**  
Every Timken® bearing comes with our team of experts, providing you with the industry's best design, application and 24/7 field-engineering support.



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

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

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