

TIMKEN®



Spexx™
Performance to a new standard

THE TIMKEN COMPANY



Performance to a new standard

Designed for extended life in heavy-load, industrial applications, The Timken Company's Spexx™ family of bearings and related products reflect our century-long leadership in steel and bearing knowledge and today's latest technology. The result is a line of innovative products that propel performance to a new standard.

Slight variations in metallurgy, internal geometry and lubrication can yield significant improvements in bearing and component life and productivity. With Timken as your engineering resource, you can create new equipment designs with smaller housings and enhanced power density or simply enhance performance in existing applications.

Innovative, practical technology

Technology developed for our Spexx line combine strength in fundamental science with a solid base of practical knowledge and experience. In Timken Research laboratories, scientists and engineers gather data on every factor that affects bearing performance, and then our sales organization works with customers to apply the appropriate design for the application.

Next, the manufacturing process begins with quality steel. In 1916, The Timken Company became the first bearing manufacturer in the world to produce its own steel. Today, our revolutionary steel-making processes are the envy of the industry. Our leading-edge steel facilities employ the latest technology and methods for reducing impurities. Simply put, the cleaner the steel, the better the bearing.

Finally, our Spexx bearings are manufactured to exact dimensions in our renowned bearing facilities. So when you see the Timken name stamped on your bearing, you know it bears a mark of excellence.

Tailored solutions

Through sophisticated, application-focused computer programs, Timken engineers model your bearing environment to identify opportunities for performance improvement. Our in-depth knowledge of bearings and industrial operations plays a critical role in the success of our partnerships. We continually look for ways to help ease maintenance and increase output.

Timken® Spexx™ bearings may be the solution for your industrial operation. Contact your local Timken sales engineer or visit timken.com/spexx to learn more.

The Spexx family is comprised of a variety of specially enhanced products, including:

DuraSpexx™ – In harsh industrial applications, including mining, pulp and power generation, Timken® DuraSpexx™ bearings offer versatility and reliability through a customized application of modified designs.

DuraSpexx™ Power Rating Series – This line of high-performance bearings consists of defined part numbers that extend bearing life up to two times. And, they have standard lead times.

P900™ – Modifications to internal geometry and finish processing associated with P900™ bearings extend fatigue life and may reduce the size, weight and total system cost. P900™ bearings also have helped customers increase load-carrying capacity in a variety of applications.

Debris Solutions – In debris-intense environments where sand, scale, dirt and other contaminants hinder bearing performance, Timken has a bearing and service solution. Timken debris-resistant bearings deter cracks, spalling and premature failure. Advanced computer modeling analyzes debris damage and helps identify appropriate debris-resistant bearing replacements.

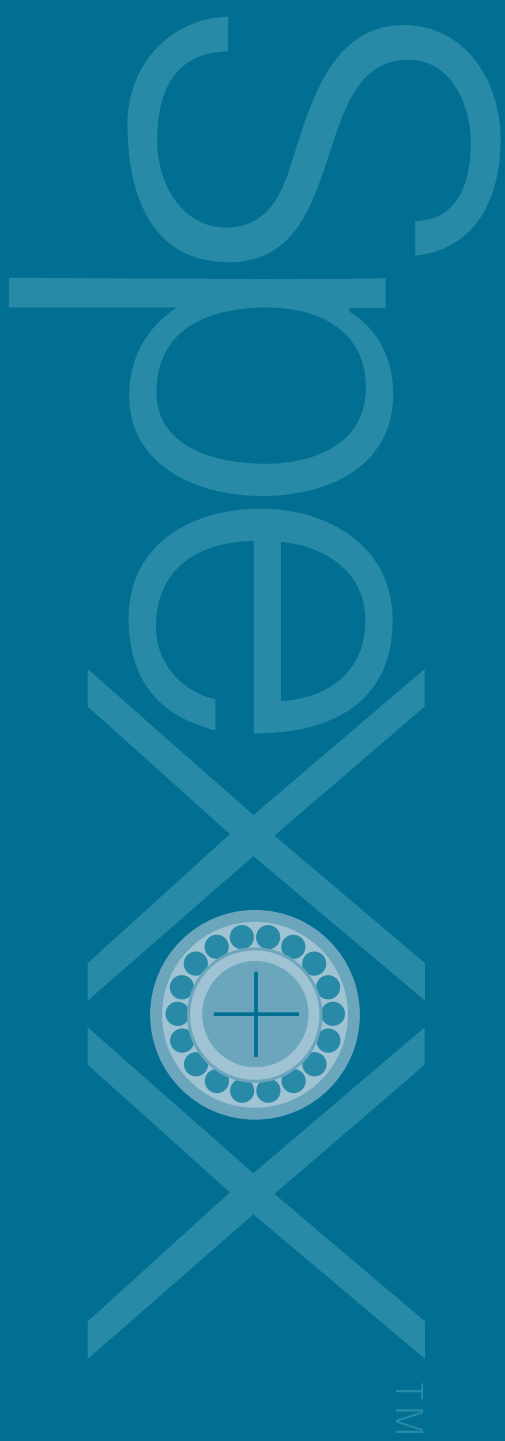
Engineered Surfaces – Engineered Surfaces technology incorporates a range of enhancements from topographical modifications that reduce friction to extremely hard coatings that combine high abrasion resistance and low friction. Tribological surface treatments improve wear, fatigue and frictional performance of components (i.e., gears, bearings, etc.) in your application.


AquaSpexx™ – A proprietary zinc-alloy coating applied to AquaSpexx™ bearings protects bearing raceways and other surfaces against damage caused by water ingress and water-based corrosion.

The chart below is simplified for convenient referral. Please contact your Timken sales engineer or sales representative for detailed information.

Spexx Specs							
	Standard Timken® Bearings	DuraSpexx™ Bearings	DuraSpexx™ Power Rating Series	P900™ Bearings	Debris Solutions	Engineered Surfaces	AquaSpexx™ Bearings
Bearing types available	Tapered, spherical and cylindrical	Tapered	Tapered	Tapered	Tapered, spherical and cylindrical	All bearing types and related components	Tapered, spherical, cylindrical, and ball bearing and related components
Size range (O.D.)	All	8" – 84"	3" – 24"*	1" – 8"	> 8" (TRB) > 11" (SRB and CRB)	Varies	0.5" – 36"
Life factor	Baseline	Up to 4x	Up to 2x	Up to 4x	Up to 4x	Depends on application	Increases life where corrosion currently limits life
Applications							
Aggregate Crushing	●	●	Some		●	●	
Construction	●	●	●	●	●	●	
Gear Boxes	●	●	Primary	●	●	●	
Mining	●	●		●	●	●	
Oil Fields	●	●	●	●	●	●	
Pillow Blocks	●				●	●	●
Pulverizers	●	●	Some		●	●	
Rolling Mills	●	●	●		●	●	●
Tunneling	●	●		●	●	●	
Environments							
Debris					●	●	
Heavy Load		●	●	●			
Thin Lubrication		●		●	●		
Corrosive							●

*Additional sizes may be available upon request.





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TIMKEN

WORLDWIDE LEADER IN BEARINGS AND STEEL