

FREQUENTLY ASKED QUESTIONS

KIZEI® Spherical Roller Bearings



Q: What are some of the typical applications for Kizei® Spherical Roller Bearing

A: Mines, quarries, industrial ventilation, cement works, the iron and steel industries, sectors that make use of conveyors and overhead cranes, and more. KIZEI® is marketed via industrial distribution and aims to become the standard rather than an open bearing. And that's why we want to develop the most complete range possible.

Q: What tests were carried out before the Kizei® bearing was launched in the market?

A: The KIZEI® was rigorously tested and shown to make a difference! After 2,200 hours of service on a quarry conveyor, it was found that the KIZEI® bearing, having worked for twice as long as the original open bearing, displayed far fewer contamination indentations. This proved that the metal shield was really doing its job.

The second highly revealing test took place in the abrasive, dusty environment of a cement works. The company had recorded a \$1,174,000 loss due to downtime caused by near-monthly replacement of the open bearing. When KIZEI® bearings were used, there were three times fewer shutdowns, and the cement works plant saved over \$793,000 in the first year. These tests prove that the KIZEI® is as important for

maintenance as it is to production. And meeting the needs of both of these is one of NTN-SNR's stated aims.

Q: How is Kizei® priced in the market?

A: Like every single innovation that enters a market, KIZEI® has a higher purchase price than existing models. The cost is justified because its exclusive features guarantee a lifespan that is at least twice as long, with one third of the maintenance costs. As for its ISO dimensions, they are completely interchangeable and do not entail any additional costs.

Q: Why the name "KIZEI®"?

A: "Kisei" with an "s", means "regulation" in Japanese. This signifies the regulation brought about by the new product: less contamination going in, less grease going out. "Kisei" is also one of the major title names in professional **Shogi**, a Japanese chess game. We wrote the name with a "Z" because in bearing terminology, a product part number is symbolized by a number and letters that represent different options. Metal shields, and the metal shield used in this new series, are commonly symbolized by a "Z" suffix - hence the name KIZEI®. A "ZZ" suffix is added to the standard ULTAGE® part number to identify a shield on both sides of the KIZEI® series.

NTN-SNR'S DEDICATED RANGE OF SPHERICAL ROLLER BEARINGS

EXCLUSIVE FEATURES

	Open bearing	KIZEI®	Sealed bearing
Dimensions	ISO	ISO	Special
Protection	0	+*	++
Grease retention	0	+	++
Temperature range	-40°C to -200°C	-40°C to +200°C	-10°C to +120°C
Speed	++	++	+
Nominal load	ULTAGE®	ULTAGE®	ULTAGE®
Internal clearance control	Yes	Yes	No
Internal control	Yes	Yes	No
Sleeve & nut	Standard	Standard	Special
Delivered with grease	No	No	Yes

- ULTAGE® label
- Load capacities and rotation speed identical to an ULTAGE® open bearing
- ISO standard dimensions
- Nitrided shield and cage for greater impact resistance
- Temperature range from -40°C up to +200°C (-40°F up to +392°F)
- Initial lubrication identical to an open bearing
- Optimal misalignment
- Simple mounting on cylindrical or conical to tapered

*Suitable for sealing against solid dust particles, but not liquids.

ULTAGE® QUALITY LABEL

The ULTAGE® label is the product of two combined concepts: "Ultimate" and "Stage". It offers longer service life, higher rotation speeds, lower maintenance costs and enhanced environmental protection. NTN-SNR offers the widest range of ULTAGE®-label spherical roller bearings on the market, from 25 mm bore diameter to 2,180 mm outside diameter.

Beyond Bearings

Training. Installation Support.
Trouble-shooting. And more.

When you choose NTN, your team is equipped with all the necessary tools and resources to get the job done right. From installation to problem-solving, we'll be there with the hands-on support you need to take on your toughest challenges. This includes extra services such as:



Technical Training Unit

On-site, mobile training unit offering specialized, hands-on instruction from NTN's technical team and always customized to your needs



Product Training School

Three days of in-depth instruction offered exclusively to our distributor partners from the NTN Engineering and Service group



Maintenance Training School

An intensive three day course on the design, application and maintenance of anti-friction bearings with hands-on workshops



eKnowledge

WEB-BASED TRAINING PROGRAM

Six online product training modules covering different bearing types and nomenclature that can be completed on your own schedule (www.ntnamericas.com/eknowledge)



Applications Engineering

Engineering technical support and expertise to provide solutions to your most challenging bearing applications



NTN Bearing Finder

Customizable search tool featuring exhaustive data sheets, comprehensive part interchanges and interactive CAD drawings (www.bearingfinder.ntnamericas.com)



Ready to get rolling? Contact us today for full details at
1-888-412-4122 or techsupport@ntn.ca

NTN®

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