

High-Performance Sealing

NTN-SNR Has Added Sealed Bearings to Its Range of Ultage Spherical Roller Bearings

NTN-SNR launches the EE sealed bearing series in the Ultage range of spherical roller bearings. These new series are a response to the growing demand from manufacturers and end users for applications as diverse as steel-making, paper manufacture, mines and quarries and even lift transmissions. These high-performance sealed bearings in the Ultage range are intended for operation in difficult environments and for equipment subject to high demands and extended maintenance intervals. Their impact on the environment is also reduced, particularly through savings in grease consumption. The reliability and performance of these bearings results in a considerable reduction in maintenance and usage costs.

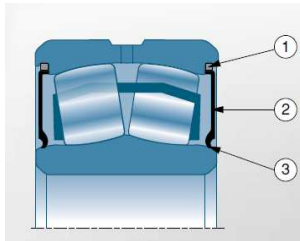
Meeting Industry's Sealing Needs

The EE series of sealed spherical roller bearings in the Ultage range was developed by NTN-SNR in response to applications that require high-load-capacity bearings, operating in difficult environmental conditions. Bearings in the sealed EE range meet the demands of most industrial applications, whether in continuous casting in steel-making, in paper-making machines often in damp or corrosive environments, in conveyors in dusty environments or in construction and public works vehicles, which are also subject to harsh environmental conditions. They are also used in special applications such as lift transmissions. For some top-of-the-range transmissions, sealed low-noise bearings are available. Series 22200 and 22300, identified by the prefix 10X, are slightly wider, to include seals, while remaining easy to install in existing assemblies. They are supplied ready to fit and pre-filled with a suitable quantity and quality of grease for high loads.



Optimum Sealing

The red elastomer seals are the result of optimised design using finite elements simulation software, allowing them to maintain optimum sealing and constant pressure on the seal lip, even if they are misaligned. The bearings are filled with a high-performance grease, suitable for high pressures, in particular the Heavy Duty grease developed by NTN-SNR's Experts&Tools department for a longer service life. Sealed spherical roller bearings can operate at up to 110°C. For higher temperatures, it is necessary to adapt the material used for the seals, and the quantity of grease. For applications where the operating temperature does not exceed 70°C, bearings do not usually require any repeat lubrication: this provides a significant saving on the one hand through reductions in the amount of grease used, cutting maintenance costs and greatly reducing environmental impact on the other hand, by limiting contamination due to grease leakage.



1-Static sealing provided by a nitrile shroud

2-Nitrile coating on the outer face to prevent seal damage by corrosion

3-Optimised lip to ensure constant pressure with or without misalignment

A full validation of the EE seals in the Ultage range was carried out in the laboratory and at the NTN-SNR test centre, to ensure their reliability and efficiency under the most demanding conditions.

High Performance to Reduce Running Costs

Sealed bearings in the EE series have the same characteristics as all Ultage bearings: optimised internal design, particularly the absence of a central shoulder or a central guide ring, for maximum load capacity, minimal friction and enhanced lubricant flow; the superior quality of the extremely pure steels for greater resistance to fatigue; heat treatments for greater resistance to wear and impacts and for better durability. The pressed steel cages are protected against wear by surface treatment and the sealed bearings retain their automatic alignment capability. All these concepts, specific to the Ultage range, make EE sealed spherical roller bearings among the most reliable on the market, offering longer service life and significantly reduced maintenance and usage costs.

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NTN-SNR ROULEMENTS is part of the NTN Corporation, the third-largest bearings group in the world. Specialising in the manufacture of bearings for the automotive, industrial and aerospace sectors, NTN-SNR ROULEMENTS also develops maintenance solutions in its Experts&Tools department and so offers a comprehensive service. NTN-SNR employs 5,128 people and has 11 production sites in Europe and Brazil and 23 sales offices around the world.

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