

## NTN-SNR ROULEMENTS

### Reliable and robust enough for the quarry

The extraction, mining and quarrying industry has very specific needs. And by announcing it will be part of the Hillhead 2012 show, NTN-SNR - a major player in automotive, aerospace and industry bearings - demonstrates yet again it is able to meet those needs. At the show, NTN-SNR will present a wide range of spherical roller bearings - some large diameter - and pillow blocks especially designed for a demanding industry that operates in a difficult environment.

#### Tried and tested expertise for a tricky environment

NTN-SNR has long been a valued partner to mining and quarrying professionals. The fact is the processes used in extracting rock from a quarry are complex and demanding. To obtain a product that meets the required calibration criteria, the entire conveying, crushing and screening process must be efficient. Bearings play a key role in each of these stages.

It is because of the expertise it has acquired in these fields that NTN-SNR is able to offer bearings to meet the problems posed by the weight and instability of masses on conveyor belts and by the vibration and impact of loads on crushers and vibrating grizzlies. In addition, they can withstand temperatures that frequently exceed 100° C (212°F) during these processes. Fully sealed, they can be used in the particularly corrosive environment of quarries despite the humidity and dust. They are also able to cope with imperfect alignments between the axle and the bearing carrier.

#### A complete range of bearings and pillows

NTN-SNR offers a complete range of spherical roller bearings designed to withstand the strains of the quarry environment.

##### Bearings for Mills and Crushers

NTN-SNR offers self-aligning roller bearings for use in milling and crushing. These may be fitted with a solid steel or solid brass cage and come in a wide range of sizes (> 1000 mm).

##### The EF800 or UA series

These series are especially designed for high vibration use. Made with a single piece brass cage and also available with a solid brass cage, they offer maximum rigidity as well as shock and vibration resistance. The cage is guided on rolling elements and there is no seizure effect in a case of thermal expansion. In addition, these series benefit from an optimized load capacity, meaning the bearing will last longer, and there are slots and holes for re-greasing. NTN-SNR has one of the widest ranges in the world.

NTN-SNR offers a sealed version which cuts down maintenance operations and increases service life. It also stops the bearing becoming contaminated and improves grease and bearing life. The sealing system can be fitted on standard bearing housings. Even when the bearing is misaligned ( $\pm 0.5^\circ$ ), its performance is not compromised.

##### Bearing Units

NTN-SNR offers a huge range of **cast iron self-aligning bearing units** with several kinds of housing (pillow block, flanged, take-up, and cartridge or hanger units). They are supplied pre-assembled, relubricatable or with a fitted insert lubricated for life.

The various seal systems offer efficient protection against pollution: three-lip seals (L3) and four-lip seals (L4) are also available.

In addition, NTN-SNR offers a **two-part pillow block: SNC standard range**.

With its ribbed body and regulation disk ( $< 20^\circ\text{C}$ ) this pillow block offers better heat dissipation. There are a range of seal systems: two-lip seals in two parts, felt strip seals, V-rings and labyrinth seals ( $200^\circ\text{C}$ , round cord) as standard solutions, or a high performance TA Taconite seal. It also has a grease drain hole for all housings and comes with excellent anti-corrosion protection.

NTN-SNR can supply special models adapted to specific applications on request.

Also available from NTN-SNR is a complete range of standard bearings for all equipment: tapered roller bearings, cylindrical roller bearings, roller thrust (tapered, cylindrical or spherical) etc.

## **A global offer of services with Experts & Tools**

NTN-SNR offers a global range of products and services from bearings to maintenance and tools with the Experts & Tools Department to make maintenance easy and to extend the life span of installations. The extent of this offer is an example of how NTN-SNR is able to accompany professionals every step of the way – an aim which is at the very heart of the company's philosophy.

### **Tools for the quarry industry**

NTN-SNR produces a specific range of tools for the quarry industry:

- Self-centering hydraulic pullers with a capacity of up to 20-tons
- Hydraulic adapter sleeves with a bore diameter of up to 1,000mm (with pump and quick nipple)
- Heating induction systems for bearings up to 1,200kg

These tools are also available for rent.

### **NTN-SNR LUB SOLUTIONS offer**

NTN-SNR has developed greases specifically designed for different bearings applications: VIB grease (vibrations & shocks) for screeners, LUB HEAVY DUTY for high load applications, and HIGH TEMP for high temperatures.

- Single-point automatic lubricators are available for all these grease types
- Multi-point centralized grease systems can be designed to suit the application

These centralized systems have been planned and set up by NTN-SNR experts using all their know-how.

### **Personalized services for each situation**

NTN-SNR also provides personalized assistance and services to optimize equipment maintenance:

- Technical assistance for mounting and dismounting bearings
- The renovation of bearings removed during routine maintenance operations
- In-situ training of maintenance teams on the client's own applications
- Diagnosis of damaged bearings

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*NTN-SNR ROULEMENTS is the result of the merger between NTN and SNR ROULEMENTS in April 2008. Today the company is part of the third largest bearings group in the world, NTN Corporation and specializes in automotive, industrial and aerospace bearings. It also develops services and maintenance solutions through its Experts&Tools department. NTN-SNR ROULEMENTS employs 5,128 people and has 11 production sites in Europe and Brazil and 23 commercial branches around the world.*

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