



مینرال سرکلز بیرینگز  
mineral circles bearings

**ULTAGE®**



# SPHERICAL ROLLER BEARING

Even better performance

**NTN®** **SNR®**

[www.ntn-snr.com](http://www.ntn-snr.com)



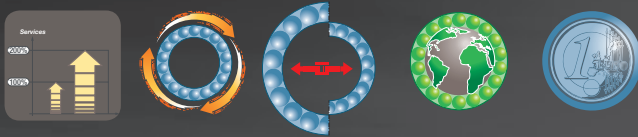
With You

# NTN-SNR ULTAGE: better performance for your applications

The **ULTAGE** label for ULTIMATE STAGE design which provides extended service life, higher rotation speed, reduced maintenance cost and contributes to environmental protection.

## For your applications

- > Doubled life duration
- > Increased operating speeds
- > Reduced maintenance costs and allow to extend intervals between maintenance actions
- > Reliability of your installations and reduction of environmental impact
- > Improved performance -> reduced dimensions
- > Productivity improvement of your facilities

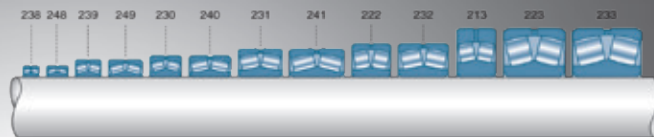


## ...our NTN-SNR ULTAGE range

- > Higher quality of steel with an extreme cleanliness for a better fatigue resistance.
- > Optimised heat treatment for a better resistance to wear and shocks.
- > Internal geometry limiting heating, operating noises and lubricant consumption.
- > ULTAGE range available in all dimensions series
- > EE sealed version available for steel cage

## From 25 mm bore up to 2180 mm external diameter

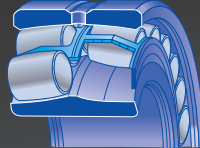
NTN-SNR offers one of the widest range of spherical roller bearings on the market.



## Bearing solutions:

### Pressed steel cage (EA)

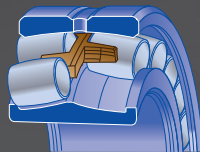
In two parts, centred on the inner ring



- > Reduced wear and friction
- > Optimum lubrication and high speeds

### Machined solid brass cage (EM)

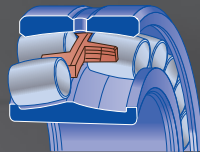
Single-piece cage, centered on the rollers.



- > Extrem robustness for longer life in the most demanding environments.

### Special tolerances for shaker screen applications (EF800)

Single-piece cage with reduced bore, external diameter and radial clearance tolerances



- > Extremely accurate roller guides for longer service life.

### Sealed bearings



- > Optimised design of the seal: optimised lip to guarantee constant pressure even with misalignment, operating temperatures until +110°C.
- > 22 200 and 22 300 series: minimum increase of the bearing width to incorporate the seals.

## Applications

### Mines, quarries and cement works



Combined loads, pollution, impacts and vibration, misalignment, etc.

- > **ULTAGE** bearings (EF800 range) have been specially designed to support these conditions and **improve the productivity of your machinery.**

### Paper industry



Presence of water, high speeds and heavy loads, need for accuracy in rotation and reliable lubrication, etc,

- > **ULTAGE** bearings contribute to **reliability of operation** and an **extended length of service life.**

### Steel industry



High temperatures, misalignment, heavy loads, high pollution levels etc...

- > **ULTAGE** bearings allow you to **extend your maintenance intervals.**

**ULTAGE**



# ULTAGE:

even better performance with

Experts  
& Tools

## > **Your targets: cost effectiveness, technical proficiency, safety.**

The NTN-SNR Experts & Tools department offers a wide range of maintenance tools and services to make your bearing maintenance easy and to extend the life span of your installations.

## > **Tools suitable for the quarry industry**

- Self-centering hydraulic pullers > 20-tons
- Hydraulic nuts (bore up to 1,000mm)
- Heating induction systems (bearings up to 1200 kg)

**Also available for rent.**

## > **NTN-SNR LUB'SOLUTIONS offer for quarry equipment**

- **VIB** grease (vibrations & shocks) for vibratory screens,
- **LUB HEAVY DUTY** for high load applications,
- **HIGH TEMP** for high temperatures.
- Automatic lubricators and also pumps and accessories for centralised lubrication up to 1000 points.

## > **Customised services for each situation**

- Technical assistance (assembly and dismounting)
- Renovation of bearings removed during preventive maintenance
- On-site training of maintenance teams
- Diagnosis of damaged bearings
- Vibration analysis of installations

# ULTAGE®



**For more information about our entire offer:**

## Contact



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