VIBRATING SCREEN APPLICATIONS
EF800 ULTAGE
Spherical roller bearings
www.ntn-snr.com
With You
THE FEATURES THAT MAKE THE EF800 ULTAGE

OPTIMISED MASSIVE BRASS CAGE: PROVEN RELIABILITY
The high radial accelerations of vibrating applications place a particular stress on the cage. The EF800 series is equipped with a cage able to respond to this.

- Symmetrical rollers with a machined brass alloy one-piece cage centered on the rolling elements.
- No floating guide ring or fixed central shoulder section. This prevents any risk of cage/ring seizure in the event of thermal expansion. The self-lubricating properties of the cage material reduce heat build-up at high speeds.
- The contoured profile of the cage pockets, combined with the capacity of the copper alloy to withstand impacts, guarantees the stability of the rolling elements under the harshest of operating conditions.

Pollution, overload, overheating, housing deformation or loss of lubricant efficiency are the mains causes of failure. When initial damage occurs, the massive brass cage ensures a longer service life, allowing the planning of preventive maintenance.

SPECIFIC DIMENSIONAL TOLERANCES: GUARANTEED STABILITY
The EF800 specification sets out reduced bore tolerances for cylindrical bores, for the tapered bores and for the outer diameters, compared with the tolerance ranges of the standard series, guaranteeing perfect ring adjustment.

- Cylindrical bore: reduced tolerances to g6 or f6 type.
- Tapered bore: reduced tolerances enabling limitation of the axial displacement of the inner ring when setting the clearance during assembly, thereby facilitating the assembly operations.
- Outer diameter: reduced tolerances to P6 type.

REDUCED INTERNAL RADIAL CLEARANCE: EASY SET-UP
In order to avoid any risk of preload on the bearings, linked to adjustment defects or deformation of the shaft or housing seating surfaces. NTN-SNR proposes a special radial clearance range that facilitates achievement and control of final radial clearance after assembly and takes specific operating conditions into account for these materials.

- EF800 series = C4 with reduced tolerance

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In certain cases, applications may require the use of a clearance other than C4.
- EF801 series = C3 with reduced tolerance
### EF800 SERIES: SPECIFIC BEARINGS FOR APPLICATIONS SUBJECT TO HIGH VIBRATIONS

The vibratory mechanisms such as those found in screeners, crushers, grinders constitute some of the most demanding applications for bearings. NTN-SNR, from the ULTAGE spherical roller bearing range, has developed a specific design to meet these critical requirements: EF800 series.

### ADVANTAGES OF THE ULTAGE RANGE:

- Increased operating speeds
- Improved performance > reduced dimensions
- Reduced friction torque
- Reduced power consumption
- Surface optimisation
- Reduced operating costs

### EF800 SERIES CATALOGUE LIST

<table>
<thead>
<tr>
<th>Dimensions</th>
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### REQUIREMENTS FOR YOUR APPLICATIONS SUBJECT HIGH VIBRATION

High vibration machinery (shaker screens, crushers, grinders, etc.) subject bearings to high levels of stress: heavy loads, radial acceleration, centrifugal forces, a highly polluted environment, etc. All this imposes reliability and specific resistance characteristics on the spherical roller bearings.

### THESE BEARINGS ARE:

- Available with a cylindrical or tapered bore (K)
- Available with bore diameters from 40 mm to 200 mm
- Manufactured according to EF800 specifications which define the special tolerances and radial clearance of spherical roller bearings
- Available on request for the other series and other dimensions upon request
Why use NTN-SNR EF800 spherical roller bearings?

CUSTOMER BENEFITS
TESTIMONY

EF800 Series is particularly suited to increase the bearing life duration in the most demanding of mine and quarry applications, as may be encountered in screeners, crushers, grinders... AND TO DECREASE MAINTENANCE COSTS.

Romain DELHAYE
Quarry Manager
A2C GRANULAT

“Our installation is subject to very high production demands making availability for maintenance limited. That is why we have to fit machine components, in particular the bearings, with the most reliable and durable equipment possible.

Our aim as quarry operators is to ensure site productivity and efficiency are as high as possible. This keeps costs down and limits machine downtime.

Crushers and screeners are subject to radial stress due to the large amount of impacts and vibration. NTN-SNR has developed a special range of spherical roller bearings with brass cage: EF800 bearings.

We have seen a real increase in productivity, thanks to the quality of NTN-SNR EF800 series.”
A MUST FOR MOUNTING / DISMOUNTING EF800 SERIES (TAPERED BORE)

HYDRAULIC NUT HMV SERIES FROM NTN-SNR

3 GOOD REASONS TO USE HYDRAULIC NUTS FROM NTN SNR

• The most professional tool to provide the drive up force required
• Precise and reliable adjustment of radial bearing clearance
• Cost effective, easy to use and secure, it will reduce your down time

TOTALLY ADAPTED FOR GREASING EF800 SERIES

LUBRICATION VIB VIBRATIONS & SHOCKS FROM NTN-SNR

This grease is an ideal lubricant for parts subjected to extensive vibrations or impact. Recommended for quarries, cement plants, public works operations, high-load applications in humid, dusty and muddy environments.

STANDARD APPLICATIONS

Shafts in scoops, crushers, grinders, vibrating screeners, scalpers, feeders, washing machines, industrial fans, etc.

BENEFITS

Excellent resistance to impact, vibrations and heavy loads, excellent resistance to water guaranteeing long-term lubrication.

TEMPERATURE RANGE

From -20°C to +140°C.

EASY DISMOUNTING FOR EF800 TO AVOID FRETTING CORROSION

ANTI-FRETTING PASTE

The NTN-SNR anti-fretting paste is specially designed to prevent contact rust between 2 metal surfaces.

COMMERCIAL REFERENCES

LUB ANTI FRETTING PASTE / T 60G
LUB ANTI FRETTING PASTE / B 750G