

**Q: What are the major features of the ULTAGE design?**

A: ULTAGE now has the largest symmetrical rollers allowable, an inner ring design that does not require a rib to keep the rollers in alignment and a window-type pressed steel cage.

**Q: Is the ULTAGE design from NTN the new standard?**

A: Yes, the added premium benefits of the ULTAGE spherical roller bearing design are now standard at no additional charge.

**Q: What is the outside diameter range for ULTAGE spherical roller bearings?**

A: ULTAGE spherical roller bearings have outside diameters ranging from 52mm to 580mm. Sizes up to 1000mm have been designed and are in queue to be manufactured.

**Q: Are all size ranges available in cylindrical and tapered bore?**

A: Yes, all ULTAGE spherical roller bearings are available in either cylindrical or tapered bore.

**Q: What style of spherical roller bearings are available in the ULTAGE design?**

A: Spherical roller bearing styles 222, 223, 230, 231, 232, 233, 239, 240, 241 and 242 are currently available in the ULTAGE design.

**Q: What type of retainers are available with ULTAGE spherical roller bearings?**

A: ULTAGE is available with pressed steel and machined brass retainers/cages.

**Q: What design style of roller does the ULTAGE spherical roller bearing have?**

A: ULTAGE spherical roller bearings have symmetrical rollers.

**Q: What is the nomenclature of ULTAGE**

A: ULTAGE nomenclature contains the standard dimension series code and bore diameter code:  
EA - is window type pressed steel cage  
EM - is one piece machined brass cage  
K - Tapered bore ratio of 1:12  
K30 - Tapered bore ratio of 1:30  
No code - Straight bore  
W33 or D1 - with oil inlet/oil groove  
C3 - Internal clearance code

**Q: Can ULTAGE be used with grease or oil lubrication?**

A: Yes, ULTAGE has superior performance with both grease and oil lubrication.

**Q: What type of grease is recommended for ULTAGE spherical roller bearings?**

A: Please consult NTN engineering as grease recommendations are application dependent.

**Q: How much misalignment can ULTAGE spherical roller bearings accommodate?**

A: ULTAGE spherical roller bearings can accommodate +/- 0.5 degrees of misalignment under normal/heavy loads and +/- 2 degrees of misalignment under light loads.

**Q: What is the temperature range of ULTAGE spherical roller bearings?**

A: ULTAGE is made with high-quality steel that undergoes special heat treatment to allow the bearing to accommodate temperatures up to 392°F (200°C).

**Q: Are ULTAGE spherical roller bearings available with seals?**

A: Yes, ULTAGE spherical roller bearings are available with nitrile seals (WA - prefix or 10X - prefix).

**Q: What is the size range of sealed ULTAGE spherical roller bearings?**

A: Sealed ULTAGE spherical roller bearings are available for part numbers 22205 to 22226.



**Q: Is the ULTAGE spherical roller bearing design available for shaker screen applications?**

A: Yes, ULTAGE spherical roller bearings designed for shaker screen applications have the suffix EF800.

**Q: Are ULTAGE shaker screen bearings available in both cylindrical and tapered bore?**

A: Yes, ULTAGE shaker screen bearings are available in either cylindrical or tapered bore. The cylindrical bore is the more popular of the two options.

**Q: Are ULTAGE spherical roller bearings available with solid lubrication?**

A: Yes, ULTAGE spherical roller bearings are available with solid lubrication? Please consult NTN engineering for details.



## ULTAGE®

### The ULTAGE Advantage

Combining premium-grade materials, optimized design and precision manufacturing, ULTAGE is the new generation of high-performance bearings from NTN that delivers unmatched service life, the highest limiting speeds and the best load capacities on the market to maximize the productivity of your equipment.

Encompassing a wide variety of key bearing types such as spherical roller, cylindrical roller, tapered roller, heavy-duty mounted roller, angular contact and radial ball bearings, the ULTAGE line of superior, high-performance bearings from NTN delivers:

- **Extended service life** for better return on our end-users' investment.
- **Greater performance**, longer production and less downtime.
- **Dependable product availability**, thanks to a wide, robust distribution network.
- **Extras that go beyond** a standard offering, including on-site and web-based technical training, installation support, digital resources and more.

## 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 engineers



#### Product Training School

Three days of in-depth instruction from NTN engineers at NTN headquarters  
([go.ntnamericas.com/trainingschool](http://go.ntnamericas.com/trainingschool))



#### eKnowledge

WEB-BASED TRAINING PROGRAM

Six online product training modules covering different bearing types and nomenclature  
([www.ntnamericas.com/eknowledge](http://www.ntnamericas.com/eknowledge))



#### NTN Bearing Finder

Customizable search tool featuring exhaustive data sets, comprehensive part interchanges and interactive CAD drawings  
([bearingfinder.ntnamericas.com](http://bearingfinder.ntnamericas.com))