

Ultra-Class™ Ball Bearing Mounted Units



NTN knows dirt

Heavy industry is not a clean place. The critical bearings you depend on to keep your facility running smoothly must perform flawlessly for long run times while dealing with dirt and dust. NTN knows this fact and developed robust ball bearing mounted units to deal with this prominent bearing killer.

NTN's Ultra-Class line is fitted with heavy-duty, full-contact molded rubber seals that ride on black oxide coated bearing inserts to help reduce corrosion. In addition to the seals, steel flingers are pressed onto the inserts creating a labyrinth effect. These standard components and materials combine to keep out damaging dirt, dust and moisture, for maximum performance.

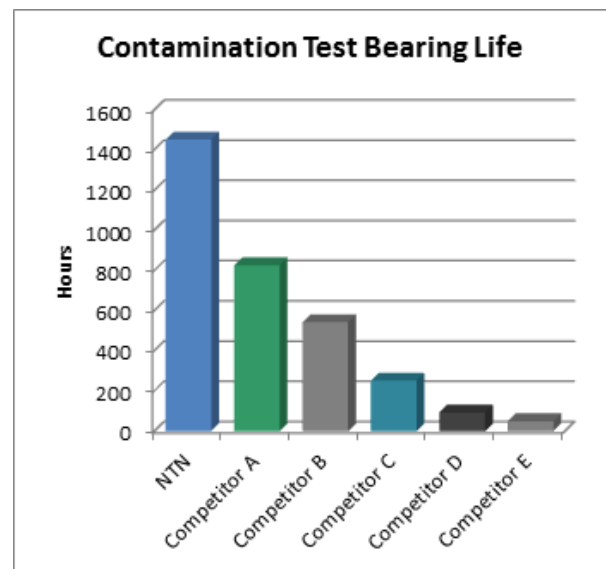
Putting it to the test

NTN tested Ultra-Class against multiple samples from each of the leading bearing manufacturers. They were run on the NTN Test Laboratory's Contamination Machine involving:

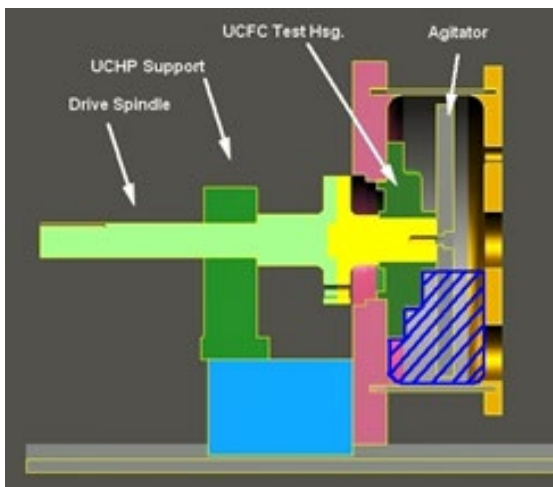
- dust/water slurry mixture
- continuous start/stop cycling
- run to failure (vibration or leak-through) or suspended at 1,000 hours

Dozens of tests were conducted yielding each product's resistance to contamination.

NTN's Ultra-Class design significantly outperformed all the competitor designs, with a life 76% longer than the closest competitor.



Beyond the lab in the real world, Ultra-Class units prove their value to outlast other designs in challenging services plagued with dust and dirt.



Contamination machine setup



Ultra-Class on sawmill chain conveyor

NTN ULTRA-CLASS IN A CLASS OF ITS OWN

NTN Ultra-Class products are premium ball bearing units for your harshest applications.



- **Heavy-duty**, solid-cast housings & robust steel cages for optimal load & shock stability
- **Reduced corrosion** in humid, wet environments due to black-oxide coated inserts
- **Premium protection** from water & contaminants due to unique sealing design
- **7.5x longer set screw retention life** with NTN's patented ball-point set screws vs. cup-point
- **Maximum shaft holding power** as a result of optional eccentric locking collar
- **Longer bearing life** as a result of high-quality bearing inserts
- **Maintenance-free option** with solid lubricant available

Here to help with the dirty work.

We're here to help you achieve your productivity and performance goals. For more information, contact your NTN Sales Representative or call **1.800.323.2358**. For technical questions, email eng@ntnamerica.com.

NTN BEARING CORPORATION OF AMERICA
1600 E. Bishop Court • Mount Prospect, IL 60056-7604
Tel: 847-298-7500 • Fax: 847-294-1205 • www.ntnamerica.com



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 headquarters
(go.ntnamerica.com/trainingschool)



eKnowledge

WEB-BASED TRAINING PROGRAM

Six online product training modules covering different bearing types and nomenclature
(www.ntnamerica.com/eknowledge)



NTN Bearing Finder

Customizable search tool featuring exhaustive data sets, comprehensive part interchanges and interactive CAD drawings
(bearingfinder.ntnamerica.com)

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