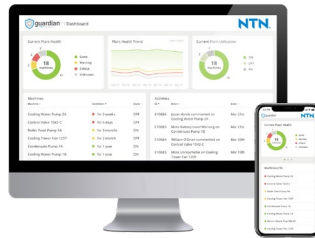




The NTN Guardian condition monitoring system empowers facilities to optimize asset performance and minimize unforeseen disruptions through simple-to-deploy wireless sensors, cloud-based condition monitoring software, and with NTN's expert condition monitoring support, Guardian's advanced machine learning and expert analysis tools provide critical insight into asset health and deliver instant alerts with actionable recommendations to elevate your predictive maintenance program.

The Software

An intuitive, cloud-based platform packed with feature-rich tools and powerful ML analytics allows you to monitor your data anywhere, at any time.



- **Advanced machine learning** analytics streamline defect identification and analysis
- **Physics-based diagnostic engine** identifies dozens of machine issues and recommends corrective actions
- **Plant health dashboard** provides clear, intuitive views of key metrics for asset health tracking
- **Comprehensive vibration analysis tools**—including Waveform, FFT, and demodulation—enable in-depth signal evaluation
- **Cloud-based web and mobile applications** with unlimited user access ensures real-time monitoring from any location
- **Out-of-the-box third-party integration** connects Guardian with your internal systems

The Hardware

A simple-to-deploy solution that delivers accurate machine insights with minimal installation effort.



- **Wireless tri-axial vibration and temperature sensors** install in minutes for fast, hassle-free deployment
- **Integrated magnetometer** ensures precise running speed detection—critical for vibration analysis on VFD-driven assets
- **Compatibility with wired sensors** via a transmitter module, enabling expanded monitoring of critical machine parameters

Expert Support

NTN's team of engineers provides comprehensive expert support at every stage, ensuring a smooth launch, sustained performance, and long-term success of your monitoring program.

- **Comprehensive review of your machinery** to deliver tailored monitoring solutions aligned with industry best practices
- **System setup and deployment** to ensure a seamless, successful start to your program
- **Training and ongoing support** to help optimize your program performance and realize long-term value
- **Certified vibration analysts** work alongside advanced machine learning analytics to continuously track equipment health and deliver real-time insights that detect issues early
- **Identify root causes of failure** using NTN Engineering's comprehensive product evaluation tools and testing capabilities
- **Receive actionable recommendations** from NTN Applications Engineering to enhance machine reliability and minimize downtime



Scan to See How
Guardian Works

ntnamericas.com/ntnguardian

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 or other regional locations around the country
(go.ntnamericas.com/trainingschool)



eKnowledge

WEB-BASED TRAINING PROGRAM

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



NTN Bearing Finder

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



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