



KINEX BEARINGS
Bearings with Surface Treatment
for a Corrosive Environment

BEARINGS WITH SURFACE TREATMENT FOR CORROSIVE ENVIRONMENTS

Durability and Optimal Performance in Corrosive Environments



Bearings operating in corrosive environments face unique challenges, including exposure to moisture, chemicals, and abrasive substances. To ensure durability and optimal performance in such conditions, bearings with specialized surface treatments are employed. These treatments enhance resistance to corrosion and wear, making them suitable for demanding applications across various industries. Kinex Bearings offers a wide range of corrosion-resistant solutions tailored to meet the demands of your specific applications.

Double - Row Spherical Roller Bearings



> **Applications:** Offshore Platforms, Desalination Plants, Chemical Mixers, Marine Propulsion Systems.

Spherical roller bearings are ideal for applications requiring high radial and axial load capacity in harsh conditions. Surface treatments such as zinc plating, ceramic coatings, or corrosion-resistant alloys enhance their durability, allowing them to operate in environments with saltwater, abrasive particles, or aggressive chemicals. Their self-aligning capability ensures smooth operation even with shaft misalignments, making them critical for reliable performance in demanding industries like marine, chemical, and mining.

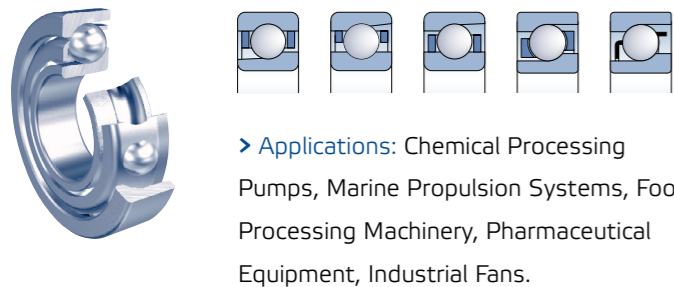
Single Row Cylindrical Roller Bearings



> **Applications:** Centrifuges in Wastewater Facilities, Paper Mill Rollers, Conveyors in Food Processing Plants.

Cylindrical roller bearings with nickel plating or polymer coatings excel in high-speed operations in corrosive settings. Their design allows for low friction and high load capacity, making them suitable for machines exposed to constant moisture, aggressive cleaning agents, or chemicals. They are particularly effective in applications where efficient rotation and minimal maintenance are required, such as paper mill drying sections or high-speed centrifuges.

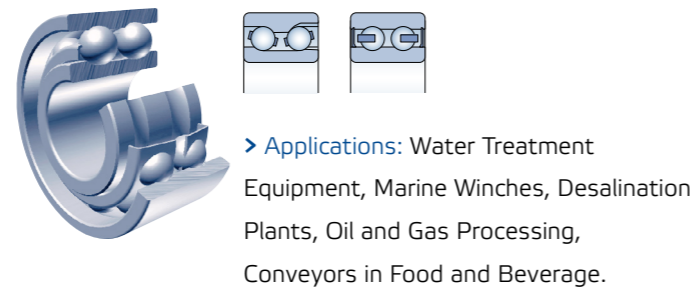
Single Row Angular Contact Ball Bearings



> **Applications:** Chemical Processing Pumps, Marine Propulsion Systems, Food Processing Machinery, Pharmaceutical Equipment, Industrial Fans.

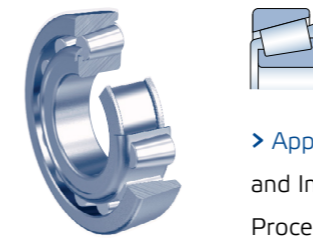
Angular contact ball bearings with advanced anti-corrosion coatings, such as PTFE or ceramic layers, provide excellent performance in environments requiring both precision and cleanliness. These bearings handle both axial and radial loads, ensuring smooth operation in applications like bottling lines or pharmaceutical production where chemical exposure and hygiene standards are critical. Their design minimizes contamination risks and ensures consistent operation even under challenging conditions.

Double Row Angular Contact Ball Bearings



> **Applications:** Water Treatment Equipment, Marine Winches, Desalination Plants, Oil and Gas Processing, Conveyors in Food and Beverage.

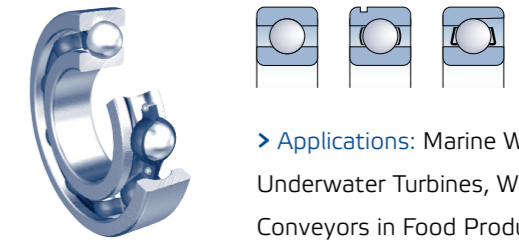
Single Row Tapered Roller Bearings



> **Applications:** Pumps, Compressors, and Industrial Fans in Chemical Processing and Industrial plants.

Tapered roller bearings are engineered to manage combined radial and axial loads effectively. Surface treatments like phosphate coatings or stainless steel versions increase their resistance to moisture, chemicals, and high temperatures. These bearings are essential in high-precision equipment where durability and resistance to wear and corrosion are paramount, such as chemical pumps and wind turbines exposed to coastal weather.

Single Row Deep Groove Ball Bearings



> **Applications:** Marine Winches, Underwater Turbines, Washing Systems, Conveyors in Food Production.

Deep groove ball bearings, made of stainless steel or coated with anti-corrosion treatments, are versatile and durable. They are designed to operate efficiently in environments prone to constant exposure to water, cleaning agents, or humidity. Their low-friction performance and high resistance to corrosion make them essential in marine and food processing industries, ensuring reliability and long-term efficiency in demanding conditions.

Thrust Ball Bearings

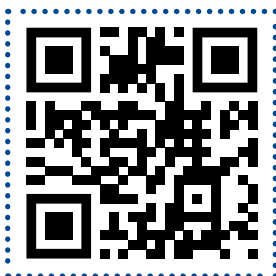
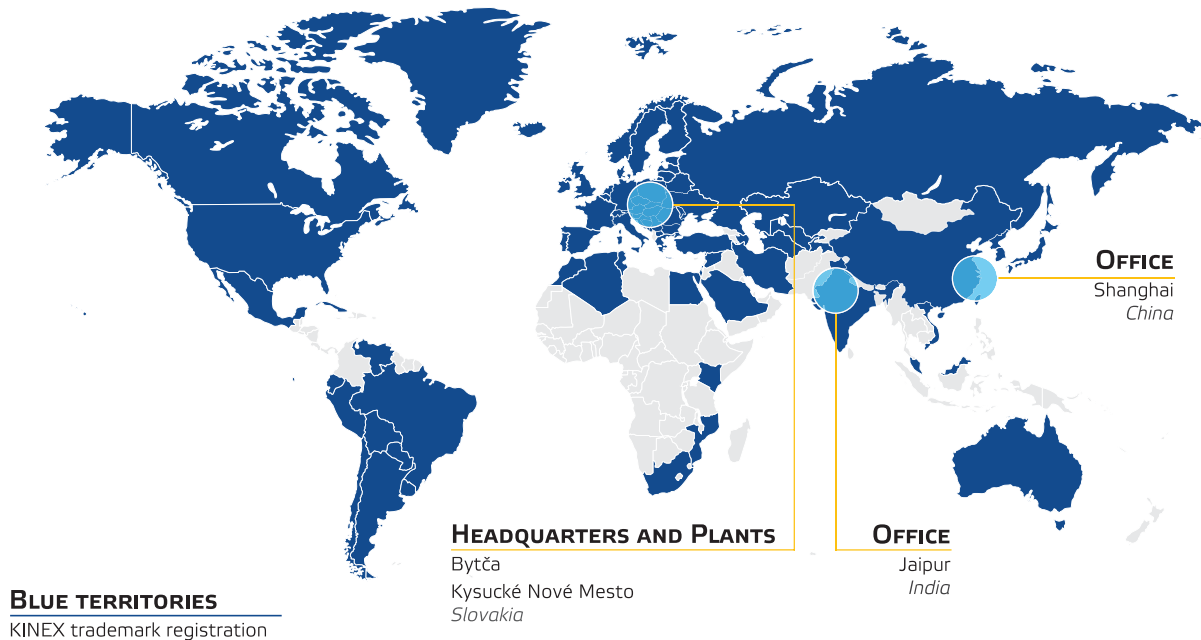


> **Applications:** Agitators in Wastewater Treatment, Separators in Chemical Processing Plants, Low-speed Drives in Desalination Units.

Thrust ball bearings treated with protective coatings are specially designed for axial load applications in corrosive environments. These bearings perform reliably in machines exposed to water, sludge, or aggressive chemicals, making them vital for agitators in water treatment plants or separators in chemical factories. Their robust design and corrosion resistance ensure long service life, even in continuous operation.



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