



KINEX BEARINGS

Bearings for Metallurgical Industry

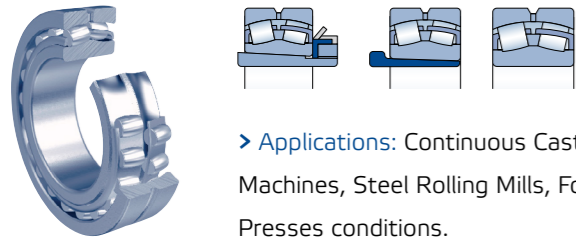
BEARINGS FOR METALLURGICAL INDUSTRY

Precision and Strength for Heavy-Duty Operations



The metallurgical industry encompasses processes such as smelting, forging, rolling, and casting, where extreme temperatures, high loads, and continuous operation are the norm. Bearings used in this industry must endure harsh conditions while maintaining consistent performance. Selecting the right bearings helps ensure operational efficiency, reduces downtime, and extends equipment life. Below are the types of bearings most commonly used in the metallurgical industry and their specific applications.

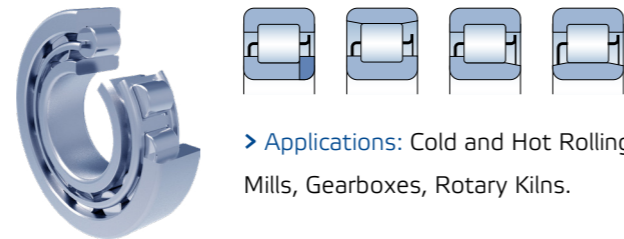
Double - Row Spherical Roller Bearings



> **Applications:** Continuous Casting Machines, Steel Rolling Mills, Forging Presses conditions.

Spherical roller bearings are ideal for applications that involve heavy radial and axial loads, such as in continuous casting machines, steel rolling mills, and forging presses. These bearings are designed to accommodate misalignment caused by shaft deflection or misaligned machinery, making them highly suitable for demanding metallurgical operations. Their robust construction ensures reliable performance in high-temperature environments where precision and load capacity are essential.

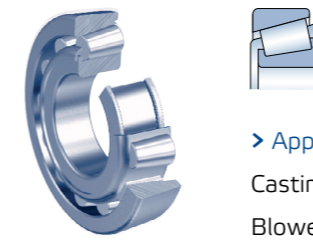
Single Row Cylindrical Roller Bearings



> **Applications:** Cold and Hot Rolling Mills, Gearboxes, Rotary Kilns.

Cylindrical roller bearings are commonly used in both cold and hot rolling mills, as well as in gearboxes and rotary kilns. These bearings provide high radial load capacity, making them suitable for machinery that experiences high-speed, heavy-load conditions. Their design allows them to operate at high speeds while maintaining smooth operation, which is critical for rolling mills that process large volumes of metal continuously.

Single Row Tapered Roller Bearings



> **Applications:** Rolling Mill Gearboxes, Casting Machines, Industrial Fans and Blowers.

Tapered roller bearings are designed to handle both radial and axial loads, making them suitable for use in rolling mill gearboxes, casting machines, and industrial fans. These bearings offer durability and precision under heavy load conditions, helping to prevent failures caused by the intense forces common in the metallurgical industry. Their ability to withstand both thrust and radial loads makes them perfect for supporting large, high-speed machinery.

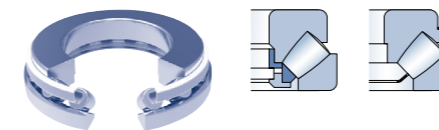
Single Row Deep Groove Ball Bearings



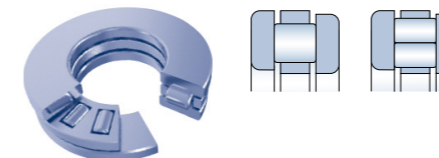
> **Applications:** Electric Motors, Cooling Fans, Conveyor Systems.

Deep groove ball bearings are versatile, providing smooth operation in both radial and axial load applications. In the metallurgical industry, they are used in electric motors, cooling fans, and conveyor systems. Their ability to handle high speeds and resist heat makes them suitable for use in various auxiliary systems that operate continuously in hot and dusty environments. They offer durability and low friction, reducing wear and extending service life.

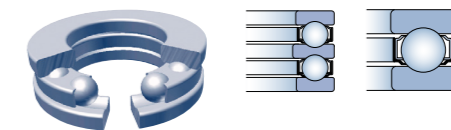
Spherical Roller Thrust Bearings



Cylindrical Roller Thrust Bearings



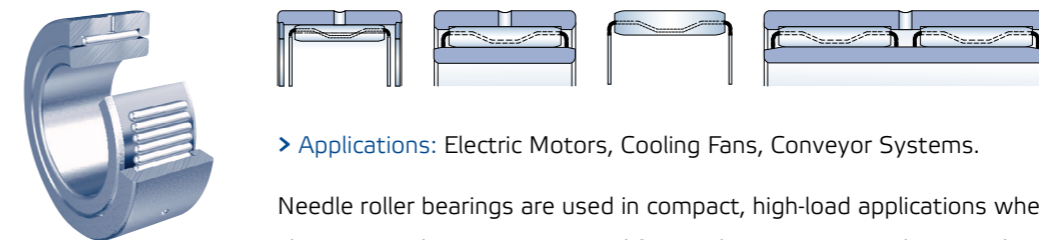
Thrust Ball Bearings



> **Applications:** Continuous Casting Machines, Steel Rolling Mills, Forging Presses conditions.

Thrust bearings are used in applications where axial loads are predominant, such as in vertical rolling mills and extrusion presses. These bearings ensure stability and efficiency under high-pressure conditions, helping to transfer force in a controlled manner. Thrust bearings are also used in horizontal shaft applications where axial support is needed to maintain operational stability and reduce friction.

Needle Roller Bearings



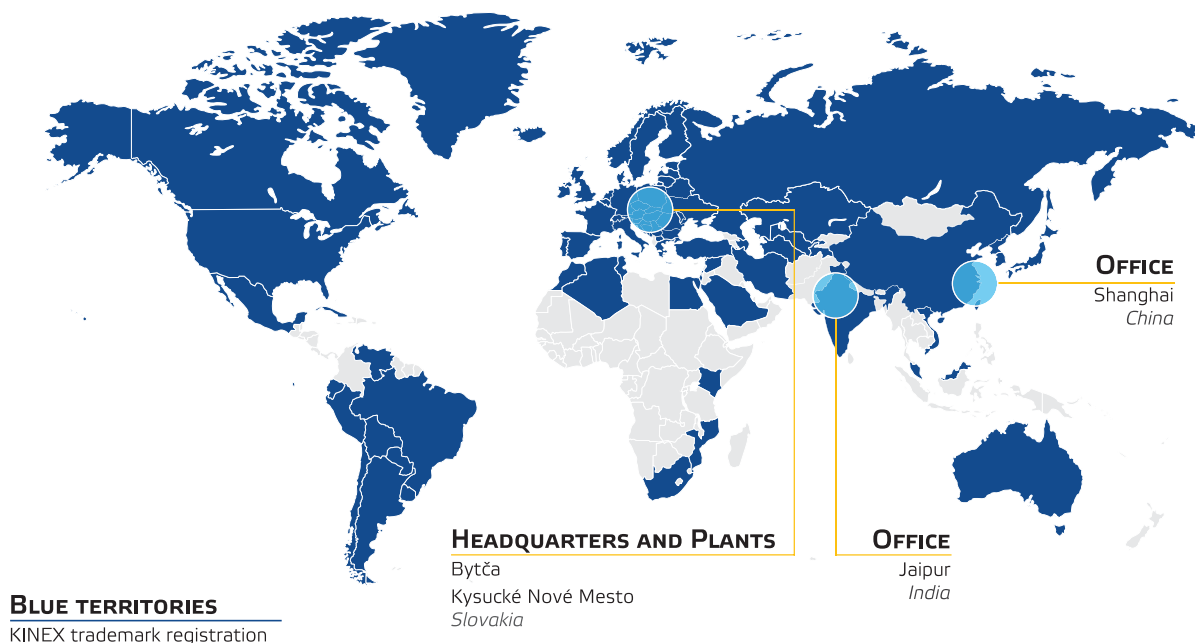
> **Applications:** Electric Motors, Cooling Fans, Conveyor Systems.

Needle roller bearings are used in compact, high-load applications where space is limited, such as in shearing machines, presses, and forging hammers. These bearings have a high load-carrying capacity despite their small size, allowing them to deliver reliable performance under extreme conditions.

Needle roller bearings provide the precision needed for high-impact, repetitive tasks in the metallurgical industry.



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