



KINEX BEARINGS

Bearings for Sheet Metal Rolling Industry

BEARINGS FOR SHEET METAL ROLLING INDUSTRY

Optimized Performance for Precision Rolling Operations



The sheet metal rolling industry relies on robust, highprecision bearings that can support heavy loads, withstand extreme temperatures, and endure continuous operation. Bearings used in sheet metal rolling must handle high radial loads, resist misalignment, and facilitate smooth, efficient rolling processes. Kinex Bearings offers high-performance solutions that reduce downtime, increase productivity, and ensure a precise rolling process for superior sheet quality.

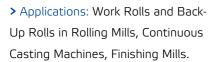
Double - Row Spherical Roller Bearings











Spherical roller bearings are crucial in rolling mill applications where misalignment and heavy radial loads are common. These bearings are often used in work rolls and back-up rolls of rolling mills, where they handle substantial loads and vibrations while compensating for shaft misalignment. They are also essential in continuous casting machines, ensuring stable and continuous operation under high temperatures and stress.

Single Row Deep Groove Ball Bearings









and Drive Units, Ventilation Systems.

Deep groove ball bearings are suited for high-speed applications with moderate loads, such as electric motors in rolling mills and cooling fans. They provide low friction, smooth operation, and are durable in high-temperature environments. Often found in auxiliary machinery and drive units, deep groove ball bearings support continuous operation with minimal maintenance requirements, enhancing overall system reliability.

Spherical Plain Radial Bearings







> Applications: Slow-Speed, Heavy Load Equipment, Large Rollers in Hot Rolling Mills, Heavily Loaded Conveyors in Metal Handling.

Plain bearings, or sleeve bearings, are suitable for slowspeed, heavy-load applications like large rollers in hot rolling mills. They offer high load capacity and can handle intense, continuous pressure. Plain bearings are also resistant to contaminants, which is beneficial for conveyors and rollers in environments with dust, metal debris, and high temperatures.

Double Row Self-Aligning Ball Bearings





> Applications: Roller Adjustment Systems in Rolling Mills, Conveyors with Shaft Misalignment, Rotating Equipment in Auxiliary Systems.

These bearings can automatically adjust to misalignments, making them useful for conveyors and rotating equipment prone to shaft misalignment. In roller adjustment systems within rolling mills, they ensure smooth, stable operation even when alignment shifts occur. These bearings are resistant to wear and provide reliable performance in environments with minor misalignment challenges.

Single Row Tapered Roller Bearings





> Applications: Rolling Mill Drive Shafts. Roll Neck Applications in Roughing Mills, Equipment with High Combined Loads.

Tapered roller bearings support both radial and axial loads, making them ideal for rolling mill drive shafts and roll neck applications in roughing mills. Their conical structure allows them to handle heavy combined loads, which is critical in early stages of sheet metal rolling where raw material reduction requires high forces. Tapered roller bearings provide reliable performance in high-load, high-impact areas of the rolling process.

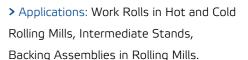
Single Row Cylindrical Roller Bearings











Cylindrical roller bearings are designed to support high radial loads and are commonly used in both hot and cold rolling mills. They are ideal for work rolls where continuous, high-impact rolling occurs, providing high load capacity and stability. In intermediate stands, cylindrical roller bearings contribute to maintaining precise rolling and thickness control, ensuring consistent sheet quality and minimized wear

Spherical Roller Thrust Bearings











Thrust Ball Bearings





Cylindrical Roller Thrust Bearings







Thrust bearings handle high axial loads and are essential in roll necks of vertical stands, coilers, and decoilers, where axial forces are prevalent.

These bearings provide stability and help prevent axial movement, maintaining alignment in the rolling process. They're also used in hydraulic presses, enabling precise force application for smooth, even rolling and forming operations.

Needle Roller Bearings

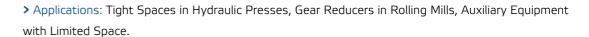












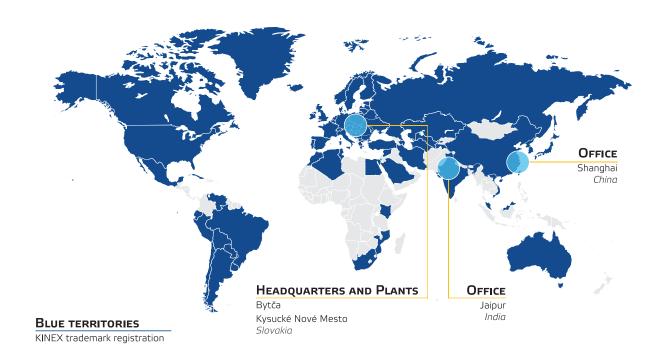
Needle roller bearings are valued for their slim profile and high load-carrying capacity, making them suitable for applications with limited space, such as hydraulic presses and gear reducers in rolling mills. Their compact design enables them to handle high loads in confined spaces, ensuring precise operation and durability in auxiliary equipment and specific rolling mill components.







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