



**KINEX BEARINGS**  
Bearings for Stone Crushing Industry

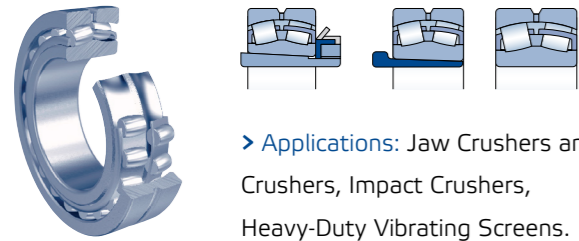
# BEARINGS FOR STONE CRUSHING INDUSTRY

Durable Solutions for Heavy-Duty Crushing Equipment



In the stone crushing industry, bearings must withstand extreme operating conditions, including heavy shock loads, intense vibration, and exposure to dust and debris. Bearings used in this sector are designed to endure the heavy loads and harsh environments of crushers, conveyors, and screens. Kinex Bearings provides a wide range of bearing solutions to maximize performance in the stone crushing industry.

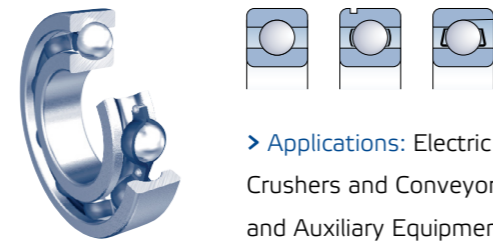
## Double - Row Spherical Roller Bearings



> **Applications:** Jaw Crushers and Cone Crushers, Impact Crushers, Heavy-Duty Vibrating Screens.

Spherical roller bearings are essential in heavy-impact applications such as jaw and cone crushers, where they handle both high radial and axial loads while compensating for shaft misalignment. These bearings are designed to endure continuous vibration and heavy shock loads, ensuring stability in crushers operating in rugged conditions. In vibrating screens, spherical roller bearings provide exceptional resilience, offering extended life and reliable performance.

## Single Row Deep Groove Ball Bearings



> **Applications:** Electric Motors in Crushers and Conveyors, Small Motors and Auxiliary Equipment, Fans.

Deep groove ball bearings are suitable for high-speed applications with moderate loads, such as electric motors used in stone crushing equipment and conveyors. They offer low friction and smooth operation, ideal for smaller motors in crushers and fans for ventilation systems. With excellent resistance to contamination, deep groove ball bearings support reliable operation in dust-laden environments common to stone crushing.

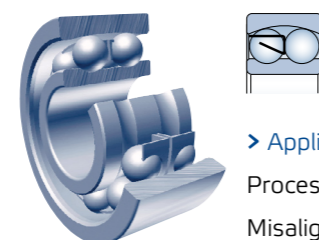
## Spherical Plain Radial Bearings



> **Applications:** Heavy Crushers and Rollers with Low Speed, Equipment with High Shock Loads

Plain bearings are used in applications with low speed and high loads, such as heavy crushers and roller systems. They have a simple design, are resistant to dust and grit, and require minimal maintenance, making them suitable for harsh environments in stone crushing. Plain bearings effectively absorb shock loads, providing stable and durable performance in extreme conditions.

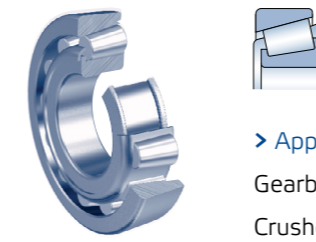
## Double Row Self-Aligning Ball Bearings



> **Applications:** Conveyors in Material Processing, Screens with Minor Misalignment, Crusher Components Prone to Shaft Deflection.

Self-aligning ball bearings are used in equipment where shaft misalignments are likely, such as conveyors and certain crusher components. These bearings automatically adjust to misalignments, reducing friction and wear. This feature makes them well-suited for screens and conveyors, ensuring smooth material transport and processing while extending operational life in demanding conditions.

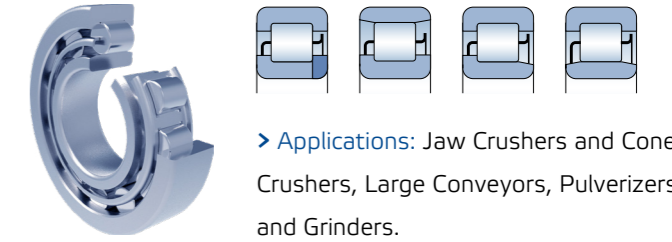
## Single Row Tapered Roller Bearings



> **Applications:** Jaw Crushers, Crusher Gearboxes and Drive Shafts, Rock Crushers.

Tapered roller bearings are commonly used in stone crushers where they must support combined radial and axial loads. Their conical shape enables them to handle high impact and crushing forces, making them ideal for crusher gearboxes and drive shafts, as well as heavy-duty rock crushers. Tapered roller bearings ensure smooth, efficient operation and are resistant to wear in demanding environments.

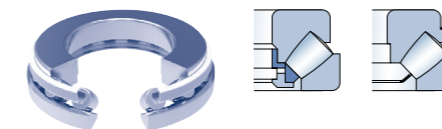
## Single Row Cylindrical Roller Bearings



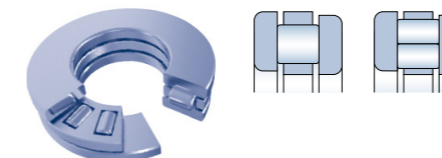
> **Applications:** Jaw Crushers and Cone Crushers, Large Conveyors, Pulverizers and Grinders.

Cylindrical roller bearings are designed to support high radial loads and are often used in jaw and cone crushers, where continuous, high-impact forces require a robust bearing solution. They also excel in large conveyor systems that transport crushed materials, offering low friction and high load capacity. In pulverizers and grinders, cylindrical roller bearings ensure efficient and consistent material reduction, enhancing productivity.

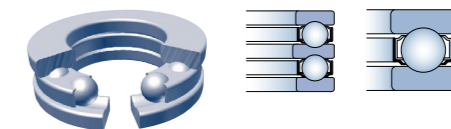
## Spherical Roller Thrust Bearings



## Cylindrical Roller Thrust Bearings



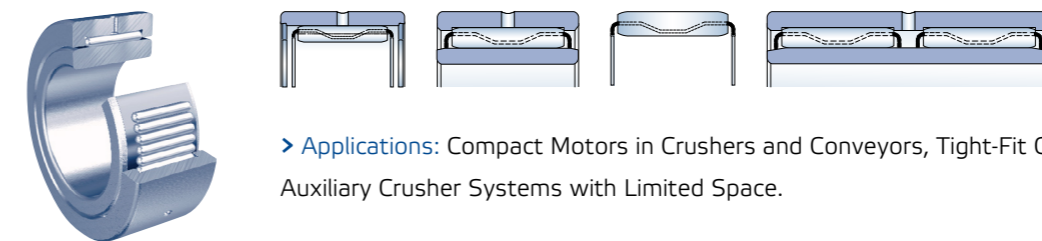
## Thrust Ball Bearings



> **Applications:** Vertical Shaft Impact Crushers, Cone Crushers, Elevators and Lifting Systems.

Thrust bearings are specially designed to support high axial loads, making them well-suited for vertical shaft impact (VSI) crushers, which generate significant axial force. These bearings enhance stability and longevity in cone crushers and other lifting systems where vertical loads are present. Thrust bearings ensure smooth performance even under high-impact conditions, contributing to reliable operation in crushing applications.

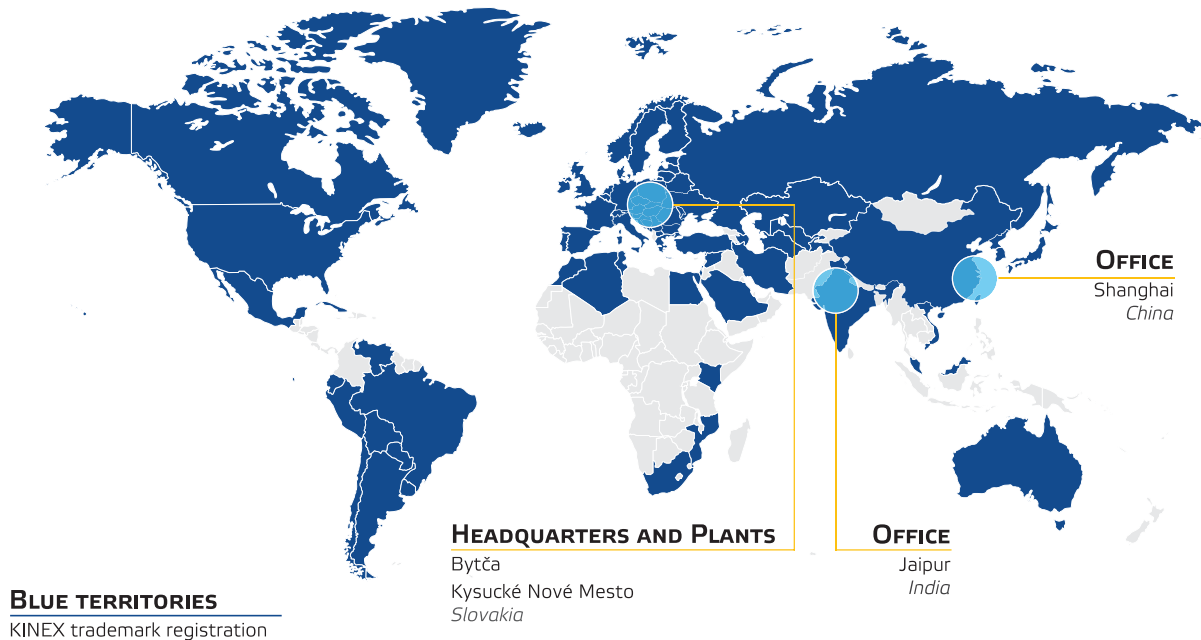
## Needle Roller Bearings



> **Applications:** Compact Motors in Crushers and Conveyors, Tight-Fit Components in Crusher Assemblies, Auxiliary Crusher Systems with Limited Space.

Needle roller bearings provide high load capacity in a compact design, which is valuable for space-constrained applications in crusher motors and auxiliary systems. Their slender rollers minimize friction while supporting heavy radial loads, making them ideal for tight-fit components in stone crushing equipment. Needle roller bearings are effective in equipment where space is limited but strength and reliability are critical.

## YOUR PARTNER FOR INDUSTRY



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