Tapered Roller Bearing for High Load Applications

Tapered roller bearings are designed for combined loads, particularly high radial and axial forces. Their design ensures efficient rolling motion, reducing friction and heat, which extends bearing life and enhances operational efficiency.

Product Overview

High-Performance Tapered Roller Bearings

These tapered roller bearings are engineered to handle demanding combined loads, specifically managing high radial and axial forces simultaneously. Designed with rollers and raceways that meet at a common apex point, they ensure precise rolling motion and reduced friction. Ideal for heavy-duty applications like automotive axles and gearboxes, these bearings are built for durability and extended operational efficiency.

Design & Engineering

Load Handling

High Radial Load • High Axial Load • Combined Load Support

Geometric Design	Rollers and raceways meet at a common apex point for optimized contact

Applications

Typical Applications

- Automotive Axles
- Industrial Gearboxes
- Heavy-Duty Machinery
- High-Load Mechanical Systems

Performance Features

Operational Benefits

1 Low	1 Minimal
Friction Reduction	Heat Generation

Installation Recommendation	Typically used in pairs for optimal performance and load distribution
Performance Characteristics	Extended Bearing Life, High Durability, Efficient Rolling Motion, Heavy-Duty