

# Cylindrical Needle Roller Bearing

Needle roller bearings employ cylindrical rollers with a small diameter relative to their length. These bearings are often used in automotive components like pumps and transmissions to minimize friction on rotating surfaces and handle large radial loads.



## Product Overview

### High-Performance Needle Roller Bearing

Needle roller bearings are specialized rolling-element bearings that utilize cylindrical rollers with a small diameter relative to their length. This unique design provides a significantly larger surface area in contact with the races compared to standard ball bearings, allowing them to support substantially greater radial loads. They are essential components for reducing friction in rotating surfaces and are widely utilized in automotive applications including rocker arm pivots, pumps, compressors, and transmissions.

## Technical Details

Bearing Type	Cylindrical Needle Roller Bearing
Key Features	High Radial Load Capacity, Low Friction, Cylindrical Rollers, Compact Design

## Application Areas

### Typical Applications

- Automotive rocker arm pivots
- Industrial pumps
- Compressors
- Transmission systems