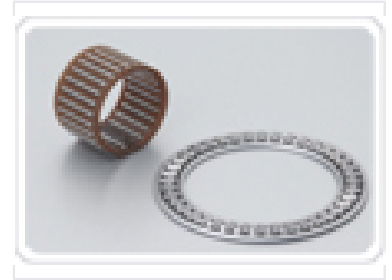


# Needle Roller Bearing

Needle roller bearings utilize cylindrical rollers to manage high loads despite a small cross-section. These bearings can be configured with or without inner rings depending on shaft hardness requirements.



## Product Overview

### High-Performance Needle Roller Bearings

Needle roller bearings are precision-engineered components featuring cylindrical rollers designed for applications where radial space is limited. Despite their low cross-section, these bearings provide an exceptionally high load-carrying capacity, making them ideal for compact bearing arrangements. These self-contained, ready-to-fit machine elements are available in configurations both with and without inner rings to suit specific shaft and housing requirements.

## Technical Features

### Installation Compatibility

- Available with inner rings
- Available without inner rings
- Compatible with hardened and ground shafts
- Can utilize shaft and housing bore as raceways

### Bearing Configuration

Needle Roller, Cylindrical Rollers, Cage Assembly

## Performance Metrics

### Load Characteristics

**1 High**

Load Carrying Capacity

**1 Low**

Radial Section Height

### Key Advantages

Compact Design • High Radial Space Efficiency • Ready-to-Fit • Self-Contained