

# Needle Roller Bearings

Needle roller bearings are rolling-element bearings utilizing cylindrical rollers to reduce friction in rotating surfaces. They are often used in automobile components, pumps, compressors, and transmissions.



## Product Overview

### High-Performance Rolling-Element Bearings

Needle roller bearings are specialized rolling-element bearings designed to minimize friction on rotating surfaces. By utilizing small cylindrical rollers, they provide a large surface area in contact with the bearing's outer surfaces, ensuring efficient load distribution. These components are essential in demanding applications such as automotive transmissions, pumps, compressors, and rocker arm pivots.

## Technical Specifications

Bearing Type	Needle Roller Bearing
Model Identifier	HK1212
Design Features	Cylindrical Rollers, High Surface Contact, Without Inner Ring

## Applications

### Typical Industrial Applications

- Automotive Transmissions
- Rocker Arm Pivots
- Industrial Pumps
- Compressors

## Compatibility

### Shaft Compatibility

This model is designed without an inner ring. It is specifically suitable for applications where a hardened and ground shaft is available to serve directly as the raceway.