

# Needle Roller Bearings

Needle roller bearings are rolling-element bearings using small cylindrical rollers with a length at least four times their diameter. These bearings provide a large surface area in contact with the bearing's outer surfaces and offer a compact design due to less added clearance.



## Product Overview

### High-Performance Needle Roller Bearings

Needle roller bearings are specialized rolling-element bearings designed with small cylindrical rollers that feature a high diameter-to-length ratio, typically at least four times longer than their diameter. This unique geometry allows for a larger surface area in contact with outer surfaces, effectively reducing friction during rotation. Engineered for compactness, these bearings provide minimal clearance between the shaft and the bearing, making them an ideal solution for space-constrained mechanical applications.

## Technical Specifications

### Design Features

- Needle cage for roller orientation
- High diameter-to-length ratio rollers
- Compact radial profile
- Reduced friction surface contact

Model Number	HK1616
Bearing Type	Needle Roller Bearing
Compliance	KML, Industrial Standard