

# Deep Groove Ball Bearing

These bearings are simple in structure and popularly used in many applications. They offer high limiting speed and low noise.



## Overview

### Versatile Deep Groove Ball Bearings

Deep groove ball bearings are the most representative and widely used bearing type, designed for high-speed operation and versatile applications. They feature a single row of balls that provide optimal performance by accommodating both radial and axial loads in both directions. These precision-engineered components offer smooth rotation, reduced friction, and low noise, making them ideal for electric motors, pumps, and gearboxes.

## Performance Highlights

### Key Performance Features

**1**

High Limiting Speed

**2**

Low Vibration

**3**

Low Noise

## Technical Design

### Structural Characteristics

- Single row of balls
- Simple structure for easy maintenance
- Available with metal shields
- Available with rubber seals
- Pre-lubricated with grease
- Optional snap ring and flange on outer ring

### Filling Slot Variant

Bearings with filling slots have the same dimensions as standard ones but offer a higher radial load carrying capacity.

## Load Capacity

### Load Handling

Radial Loads, Axial Loads (Bi-directional), High Speed Operation

## Applications

### Common Applications

Electric Motors • Pumps • Gearboxes • Industrial Machinery