

# Deep Groove Ball Bearing 6211 6212 6213 6214 6215

These deep groove ball bearings are available in sizes 6211, 6212, 6213, 6214, and 6215. They are suitable for use in electric motors, gearboxes, and other rotating machinery.



## ADDITIONAL IMAGES



## Product Overview

### High-Precision Deep Groove Ball Bearings

These deep groove ball bearings are engineered for high-speed performance and durability in demanding industrial environments. Designed to handle both radial and axial loads, they feature Electric Motor Quality (EMQ) standards to ensure exceptionally low noise and vibration levels. With versatile sealing options and precision-grade construction, these bearings are ideal for electric motors, pumps, and various rotating machinery.

## Technical Specifications

### Precision Class

P0 • P6 • P5 • ABEC-3 • ABEC-5

### Radial Internal Clearance

- C0 (Normal)
- C2 (Tight)
- C3 (Loose)
- C5 (Extra Loose)

### Available Series

6211, 6212, 6213, 6214, 6215, 6000-6013, 6301-6317, 6905-6909

### Material

Chrome Steel (Gcr15 / SAE52100 / 100 Cr6)

### Vibration & Noise Levels

Z2V2, Z3V3, EMQ Grade

## Design & Construction



Internal components including outer ring, cage, balls, and inner ring with sealing options.

### Sealing Options

Code	Description
OPEN	No shields or seals
ZZ / Z	Metal shields on both sides / one side
2RS / RS	Rubber seals on both sides / one side
2RZ / RZ	Non-contact rubber seals

### Key Features

- Single Row Deep Groove Geometry
- V-groove structure at inner & outer rings
- High-precision steel balls
- Optimized for high-speed rotation

### Cage Options

Stamping Steel or TN (Polyamide/Nylon)

## Performance Data

### Typical Performance (6300 Series)

**17000 RPM**

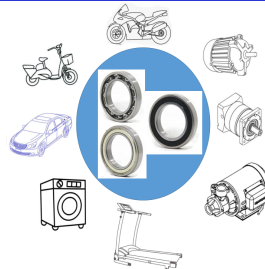
Max Speed (6301)

**40.66 kN**

Rated Load Cr (6309)

## Applications

### Application of Bearings



Precision bearings suitable for a wide range of industrial motor and machinery applications.

### Common Applications

Electric Motors, Pumps, Compressors, Gearboxes, Industrial Machinery, Automotive Components

