

# Deep Groove Ball Bearing 6301-6305, 2RS ZZ TN C0 C3 C5 EMQ

These deep groove ball bearings are available in sizes 6301, 6302, 6303, 6304, and 6305. They come in 2RS, ZZ, and open configurations, with TN cage options and C0, C3, and C5 clearance ratings for diverse applications.



## ADDITIONAL IMAGES



## Product Overview



Internal structure showing outer ring, cage, balls, and inner ring with V-groove design.

### High-Precision Deep Groove Ball Bearings

These deep groove ball bearings are engineered for high-speed industrial applications, specifically optimized for electric motors with EMQ (Electric Motor Quality) standards. Featuring a robust construction with Chrome Steel (Gcr15) and precision-ground races, they offer low noise and vibration levels for extended service life. Available in multiple sealing configurations and clearance ratings, these bearings provide reliable performance in demanding environments like pumps, gearboxes, and rotating machinery.

## Technical Parameters

### Model Specifications

Model	Dimensions (d x D x B) mm	Rated Load Cr (kN)	Max Speed (RPM)	Weight (kg)
6301	12 x 37 x 12	7.48	17000	0.058
6302	15 x 42 x 13	8.8	16000	0.082
6303	17 x 47 x 14	10.45	15000	0.11
6304	20 x 52 x 15	12.26	13000	0.14
6305	25 x 62 x 17	17.22	10000	0.22

### Bearing Series

6301, 6302, 6303, 6304, 6305, 6306, 6307, 6308, 6309

## Material & Construction

### Available Closures

2RS (Rubber Sealed) • ZZ (Metal Shielded) • OPEN • RZ • 2RZ • RS

### Ring & Roller Material

Chrome Steel (Gcr15)

### Cage Material

Polyamide (TN) or Stamping Steel

## Quality & Performance



Rigorous friction, visual, and pre-delivery inspections ensure high performance.

### Vibration & Noise Standards

- Noise Level: Z1, Z2, Z3, Z4
- Vibration Level: V1, V2, V3, V4
- EMQ (Electric Motor Quality) certified

### Precision Class

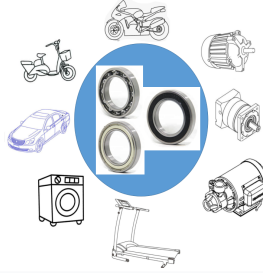
P0, P6, P5, ABEC-3, ABEC-5

### Internal Clearance

C0, C2, C3, C5

## Applications

### Application of Bearings



Versatile application range including automotive, industrial, and motor sectors.

### Target Applications

- Electric Motors
- Automotive Components
- Industrial Pumps
- Gearboxes
- Rotating Machinery

## Logistics & Services

### 6300 Series Industrial Packing Details

Model	MOQ. Carton	Industrial Packing	Quantity per Carton PCS	Packing Photo
6301	1		400	
6302	1		300	
6303	1		250	
6304	1		200	
6305	1		120	
6306	1		60	
6307	1		50	
6308	1		45	
6309	1		30	

Standard industrial packing with specific quantities per carton for the 6300 series.

### Packaging Options

- Industrial Packing (Bulk)
- Neutral Box
- Color Box

### Accepted Payment Methods

T/T, L/C, Western Union, PayPal

### Customization Services

Yes