

Deep Groove Ball Bearings

These deep groove ball bearings are designed for use in electric motors and industrial applications. They are available in various sizes and configurations, including 2RS, ZZ, TN, C0, C3, and C5 options.



ADDITIONAL IMAGES



Overview



Diagram showing the core components: outer ring, inner ring, cage, balls, and sealing options.

High-Precision Deep Groove Ball Bearings

These deep groove ball bearings are engineered for high-speed and high-load industrial applications, particularly optimized for electric motor quality (EMQ). Featuring a versatile single-row design, they are available in multiple sealing configurations including rubber seals (2RS) and metal shields (ZZ) to ensure protection against contaminants. With precision grades ranging from P0 to P5 and various radial clearance options, these bearings provide reliable performance across diverse mechanical systems.

Technical Specifications



A wide variety of sizes and configurations are available to meet specific mechanical requirements.

Precision Class

P0 • P5 • P6 • ABEC-3 • ABEC-5

Vibration & Noise Standards

- Z1V1
- Z2V2
- Z3V3
- Z4V4

Available Series

6000 Series, 6200 Series, 6300 Series, 6900 Series

Primary Material

Chrome Steel (Gcr15 / SAE52100 / DIN 100 Cr6)

Radial Internal Clearance

C0 (Normal), C2, C3 (Increased), C5

Performance Data

6300 Series Technical Parameters

Model	Bore (d)	OD (D)	Width (B)	Dynamic Load (Cr)	Max Speed (Grease)
6301	12	37	12	7.48	17000
6302	15	42	13	8.8	16000
6303	17	47	14	10.45	15000
6304	20	52	15	12.26	13000
6305	25	62	17	17.22	10000

Materials & Components

Seal Material Options

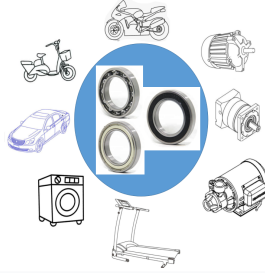
- Nitrile Rubber (NBR): -40°C to +120°C
- Silastic (VMQ): -70°C to +200°C
- Hydrogenated Nitrile (HNBR): -35°C to +165°C
- Fluoro Rubber (FKM): -28°C to +200°C
- Polypropylene Rubber (ACM): -18°C to +175°C

Cage Construction

Stamping steel cage or Polyamide (TN) cage

Applications

Application of Bearings



Versatile applications ranging from household appliances to automotive and industrial machinery.

Primary Use Cases

Electric Motors, Gearboxes, Pumps, Washing Machines, Automotive (Cars/Scooters), Treadmills, Motorcycles

Logistics & Service

Standard Packing

Neutral or Color Box; Industrial packing in cartons

Accepted Payment Methods

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

Sample Availability

Yes