

Deep Groove Ball Bearing 6905 6907 6908 6909

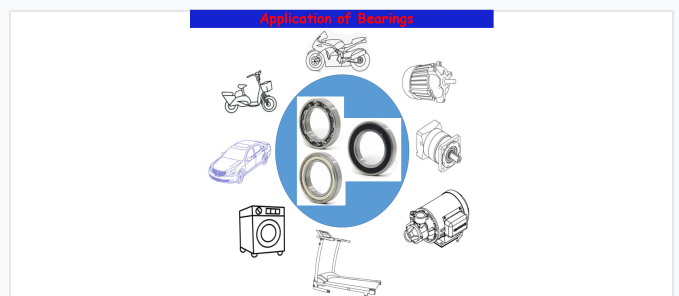
These deep groove ball bearings are available in sizes 6905, 6907, 6908, and 6909. They feature options for 2RS, ZZ, and open configurations, as well as TN cage and C0, C3, and C5 clearance options.



ADDITIONAL IMAGES



Product Overview



High-Precision Deep Groove Ball Bearings

These deep groove ball bearings are engineered for high-speed motor applications and industrial machinery, offering exceptional durability and smooth rotation. Available in multiple series including 6905, 6907, 6908, and 6909, they feature a versatile design that accommodates both radial and axial loads. With options for rubber seals (2RS), metal shields (ZZ), and specialized technical nylon cages (TN), these bearings are manufactured to Electric Motor Quality (EMQ) standards to ensure low noise and vibration.

Technical Specifications

Bearings ring & roller material

Steel grade	Chemical composition %
Cr52 (Gcr15)	Carbon Silicon Manganese Phosphorus Sulfur Chromium Vanadium Copper Nickel
Cr52 (Gcr15)	0.14-0.18 0.15-0.25 0.20-0.35 0.005-0.008 0.003-0.005 1.4-1.65 - 0.25 0.1
SAE 52100 Cr52	0.15-0.18 0.15-0.25 0.20-0.35 0.005-0.008 0.003-0.005 1.4-1.65 - 0.25 0.1

Cage Materials

Cage material should have favorable anti-friction, dimensional stability & metal intensity, while electrical cage material, it needs providing the appropriate environment.

■ Stamping metal cage

The light cage has high intensity upon surface treatment in can reduce friction & abrasion.

■ Steel cage

Steel grade	Chemical composition %
7150 SAE	Carbon Silicon Manganese Phosphorus Sulfur Nickel Chromium
SPCC	0.08-0.12 0.03-0.04 0.005-0.008 - - - -

Material of Seals

Type	Material	Temperature	Features	Limitation
Nitrile rubber	NBR	-20~120°C	Oil resistance, high durability, high wear resistance, good elasticity	Not suitable for high temperature
Stainless steel	SUS304	-20~300°C	High temperature resistance, high strength, good corrosion resistance	Not suitable for high temperature
Polyurethane (urethane)	PU	-20~140°C	High temperature resistance, high durability, good wear resistance, good elasticity	Not suitable for high temperature
Fluorine rubber	FKM/FFKM	-20~200°C	High temperature resistance, high wear resistance, good corrosion resistance, good elasticity	Not suitable for high temperature
Polypropylene rubber	PP	-20~110°C	High temperature resistance, high wear resistance, good corrosion resistance, good elasticity	Not suitable for high temperature

Main Material

Chrome Steel (Gcr15) • SAE52100 • 100 Cr6 • SUJ2

Sealing/Shielding Options

- OPEN (Unshielded)
- ZZ (Double Metal Shields)
- 2RS (Double Rubber Seals)
- TN (Technical Nylon Cage)
- RZ / 2RZ (Low Friction Seals)

Bearing Type	Deep Groove Ball Bearing
Number of Rows	Single Row
Precision Grades	P0, P6, P5, ABEC-3, ABEC-5
Internal Clearance	C0, C2, C3, C5
Vibration & Noise Levels	Z2V2, Z3V3, V1, V2, V3, V4

6300 Series Reference Data

6300 Series Dimensions & Load Ratings

Model	ID (mm)	OD (mm)	Width (mm)	Cr (kN)	Cor (kN)
6301	12	37	12	7.48	4.65
6302	15	42	13	8.8	5.43
6303	17	47	14	10.45	6.56
6304	20	52	15	12.26	7.81
6305	25	62	17	17.22	11.39

Quality & Manufacturing

PRODUCTS INSPECTION



Quality Control Processes

- Automatic Vibration Detection
- Roundness Detection
- Product Life Performance Testing
- Friction Inspection
- Visual Inspection
- Pre-delivery Inspection

Logistics & Service

Shipping & Payment

- Delivery: Sea, Air, Express (DHL, UPS, FedEx, TNT)
- Payment: T/T, L/C, Western Union, PayPal
- OEM Service: Available
- Samples: Free for less than 5 pieces (freight collect)