

Deep Groove Ball Bearing 6315 6316 6317 6318

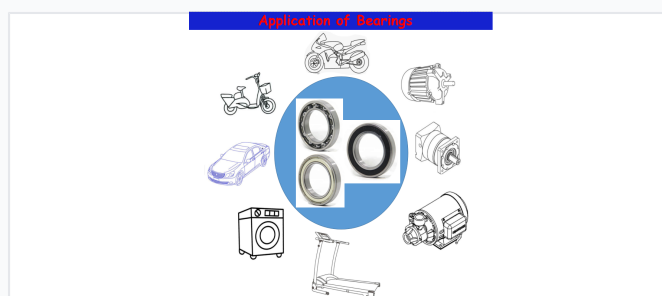
These deep groove ball bearings are available in sizes 6315, 6316, 6317, and 6318. They come with options for 2RS, ZZ, and Z closures, TN cage construction, and C0, C3, and C5 radial internal clearance grades.



ADDITIONAL IMAGES



Product Overview



High-Precision Deep Groove Ball Bearings

These deep groove ball bearings are designed for high-speed industrial applications, offering a low coefficient of friction and high limiting speeds. Primarily intended for radial loads, they are also capable of handling axial loads in both directions. Available in multiple configurations including open, shielded (ZZ), and sealed (2RS) variants, these bearings ensure smooth operation and low noise for critical motor and machinery components.

Technical Specifications

Bearings ring & roller material									
Steel grade		Chemical composition %							
Crus 52Cr2	Crus 5	Si 0.16	Mn 0.035	P 0.008	S 0.005	Cr 1.50	Mo 0.008	Cu 0.005	Ni 0.005
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Bearings 52100 Cr2	Crus 5	Si 0.16	Mn 0.035	P 0.008	S 0.005	Cr 1.50	Mo 0.008	Cu 0.005	Ni 0.005
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Cage Materials

Cage material should have formic acid resistance, dimensional stability & metal amenity, while selecting cage material, it needs considering the operational environment.

Stamping steel cage

The light cage has high intensity, open surface treatment it can reduce friction & abrasion.

Notes: Nylon is not suitable for steel contact.

Steel grade	Carbon	Silicon	Manganese	Phosphorus	Sulfur	Nickel	Chromium
52100 Cr2	0.95	0.16	0.035	0.008	0.005	1.4	1.45
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Material of Seals

Type	Material	Temperature	Features	Limitations	
Nitrile rubber	NBR	40~100°C	40~100°C	Oil resistance, high durability, high ozone resistance, good elasticity.	Not for high temperature.
Butyl	BR	40~100°C	40~100°C	Resistance to high temperature & dry sunlight & ozone & ozone.	Poor surface wear & high resistance to various high frequency.
Fluoropolymer (Viton)	FKM	120~200°C	120~200°C	High temperature, high oil resistance, high chemical resistance.	High cost, difficult to process, high temperature, and direct contact with metal.
Fluoro rubber	FFKM	150~200°C	150~200°C	High temperature, high oil resistance, high chemical resistance, good ozone resistance.	Very high cost, difficult to process, high temperature, and direct contact with metal.
Polypropylene rubber	PPR	100~120°C	100~120°C	Resistance to heat & weight & ozone resistance, high ozone resistance.	Not suitable for high temperature, high frequency.

Widely Use Grease Specification									
Manufacturer	Brand	Base Oil	Thickener	Viscosity of Base Oil		Working Temperature			
				40°C	100°C				
Koyo Yuh	Multigrade SGM	Polyol ester	Lithium soap	95	11	-50~150			
	Multigrade SGL	Polyol ester-diaester	Lithium soap	24	5.1	-50~150			
	Multigrade SSM	Specific high-pressure	Polyurea	47.5	8.9	-40~120			
	Multigrade ET-K	Other synthetic polyol lipid	Amovent double urea	95.1	11.3	-40~120			
	Multigrade PSE	Other synthetic polyol lipid	Lithium soap	25.3	4.7	-50~150			
	Super N1	Other synthetic polyol lipid	Polyurea	99.9	20.5	-40~120			
	SLQ2	Mineral oil	Lithium base	75.16	8.3	-10~120			
	SL2	Mineral oil	Lithium base	75	8	-20~120			
	SL3	Mineral oil	Lithium base	75	8	-20~120			
	SLV2	Mineral oil	Lithium base	130	12.2	-15~120			
Klüber	ISHT-182	Mineral oil	Polyurea	70	9.4	-40~120			
	ISHT-102	Mineral oil	Polyurea	100	12	-40~120			
	ASDNEC-6V32	Mineral oil	Lithium base	29	5	-50~140			
	ISDINCO-12CF11	Mineral oil	Polyurea	67.5	10	-40~140			
	RTAKO-150113	Other synthetic hydrocarbon	Polyurea	150	4	-10~140			
	SEACON120	Special	Lithium soap	15	4	-25~110			
	Ultrax-EM	Mineral oil	Polyurea	115	21	-40~150			
	Ultrax-N2	Mineral oil	Lithium soap	115	19	-40~150			
	Ultrax-N3	Mineral oil	Lithium soap	115	19	-40~150			
	Ultrax-N4	Mineral oil	Lithium base	110	11.98	-10~110			
Daguer	ProB	Mineral oil	Lithium base	73.5	6.88	-30~120			
	ProB 240	Other synthetic hydrocarbon	Other synthetic hydrocarbon	200	19	-14~124			
	Lubcon	N2	Mineral oil	150	12	-14~140			
	Chauron	DB 2	Other synthetic hydrocarbon	100	11	-30~150			
	ProB	ProB 2	Other synthetic hydrocarbon	100	12	-20~120			

Radial Internal Clearance

C0 • C2 • C3 • C5

Quality & Vibration Classes

- Precision: P0, P6, P5
- Vibration: ZV2, ZV3
- Noise Levels: Z1, Z2, Z3, Z4
- Vibration Levels: V1, V2, V3, V4
- Standards: ABEC-3, ABEC-5, EMQ (Electric Motor Quality)

Bearing Series	6315, 6316, 6317, 6318, 6200 Series, 6000 Series, 6900 Series
Material	Chrome Steel / Gcr15
Closure Options	OPEN, Z (Single Shield), ZZ (Double Shield), RS (Single Seal), 2RS (Double Seal), RZ, 2RZ
Cage Material	TN (Polyamide/Nylon) or Stamping Steel

Performance Data

6300 Series Parameters

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

Manufacturing & Service

PRODUCTS INSPECTION



Available Services

- OEM Service (Custom Logo Printing)
- Custom Model Printing
- Free Samples (up to 5 pcs)
- Neutral or Color Box Packing

Inspection Processes

Friction Inspection, Visual Inspection, Vibration Detection, Roundness Detection, Pre-delivery Inspection

Logistics & Payment

Accepted Payment

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

Shipping Options

Sea Freight, Air Freight, Express (DHL, UPS, FedEx, TNT)