

Deep Groove Ball Bearing 6315 6316 6317 6318

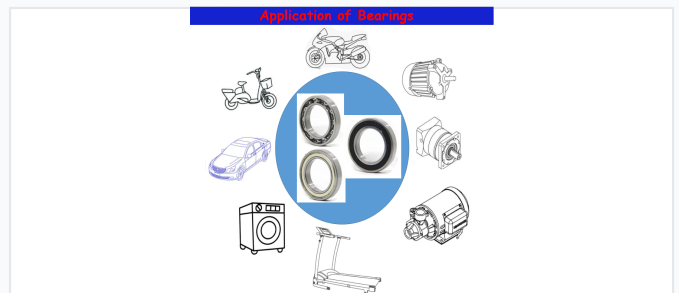
These deep groove ball bearings are available in sizes 6315, 6316, 6317, and 6318. They come with options for 2RS, ZZ, and Z closures, TN cage construction, and C0, C3, and C5 radial internal clearance grades.



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 0.015	S 0.005	Cr 1.50	Mo 0.008	Cu 0.03	Ni 0.01
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Bearings 52100 Cr2	Crus 5	Si 0.16	Mn 0.035	P 0.015	S 0.005	Cr 1.50	Mo 0.008	Cu 0.03	Ni 0.01
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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 zinn 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	0.015	0.005	0.01	1.50
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Material of Seals

Type	Material	Temperature Range	Features	Limitations	
Nitrile rubber	NBR	40-100°C	40-100°C	Oil resistance, high durability, high compression resistance, good flexibility.	Not for high temperature.
Butyl	BR	0-100°C	0-100°C	Low permeability to air, good resistance to aging, high resistance to ozone, high resistance to acids.	Not for high temperature & high speed.
Polyurethane (polyurethane)	PU	0-100°C	0-100°C	High strength, high wear resistance, high resistance to oils, high resistance to acids.	Not for high temperature & high speed.
Fluoro rubber	FKM	0-200°C	0-200°C	High temperature resistance, excellent oil resistance, excellent chemical resistance.	Not for high speed.
Polypropylene rubber	PPR	0-100°C	0-100°C	High resistance to heat, good chemical resistance, good electrical insulation.	Not for high speed.

Widely Use Grease Specification									
Manufacturer	Brand	Base Oil	Thickener	Viscosity of Base Oil	Working Temperature				
Koyo Yuh	Multigrade SGM	Polyol ester	Lithium soap	95	-50~150				
	Multigrade SGL	polyol ester-diaester	Lithium soap	26	51	-50~150			
	Multigrade SSM	synthetic hydrocarbon	Polyurea	47.5	8.9	-40~120			
	Multigrade ET-K	ether synthetic polyol lipid	Ammonium double soap	95.1	12.3	-40~120			
	Multigrade PSE	semi-synthetic hydrocarbon	Lithium soap	25.5	4.7	-50~150			
	Super N1	semi-synthetic hydrocarbon	Polyurea	99.9	20.5	-40~120			
	SLG2	mineral oil	Lithium base	75.16	8.3	-20~120			
	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	-20~120			
Klüber	ISHT-182	ester	Polyurea	70	9.4	-40~180			
	ISHT-102	ester	Polyurea	100	12	-40~180			
	ASDNEC-6V32	ester	Lithium base	29	9	-50~160			
	ISDINCO-12CF11	ester	Polyurea	67.5	10	-40~160			
	RETAKO-150113	semi-synthetic hydrocarbon	Polyurea	150	4	-30~160			
	SEACON-120	synth	Lithium soap	15	4	-25~120			
	SEACON-180	synth	Polyurea	115	21	-50~150			
	ULTRAC-112	mineral oil	Lithium soap	115		-40~130			
	ULTRAC-113	mineral oil	Lithium soap	115		-40~130			
	SEACON-112	mineral oil	Lithium base	110	11.98	-30~130			
Dagupan	PR8	mineral oil	Lithium base	73.5	6.88	-30~130			
	PR140	synthetic hydrocarbon (PMMA)	polyurea	200	29	-34~124			
	PR2	ester	Polyurea	150	22	-34~180			
	PR2 Z	synthetic hydrocarbon (PMMA)	Lithium base	100	11	-30~150			
Zschertl	ISHT-182	ester	Lithium base	100	12	-20~120			
	ISHT-102	ester	Lithium base	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)