Self-Aligning Ball Bearings

Specification Sheet

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Self-Aligning Ball Bearing (Sealed Type) — Product Photo

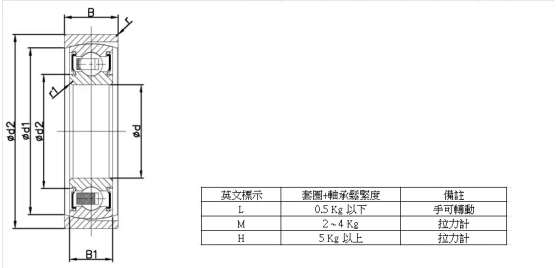
Premium self-aligning ball bearings designed to absorb shaft misalignment and installation errors, reducing abnormal loads. Equipped with high-performance seals for dust and splash protection, extending service life.

Excellent Self-Aligning Function: Automatically compensates for shaft misalignment caused by machining errors, mounting inaccuracies, or shaft deflection, significantly reducing abnormal bearing loads.

Dust & Liquid Protection: Equipped with premium seals on both sides to prevent grease leakage and block dust and fluid ingress, ideal for harsh environments.

Low Friction Operation: Features the lowest friction of all rolling bearings, running cooler even at high speeds.

Cross-Section Diagram & Fit Tightness (L/M/H)



英文標示	套圈+軸承鬆緊度	備註
L	0.5 Kg 以下	手可轉動
M	2～4 Kg	拉力計
H	5 Kg 以上	拉力計

Cross-sectional dimension diagram of the self-aligning ball bearing, with a reference table for ring/bearing fit tightness (L, M, H). The symbols d, D, B, B1, d1, d2, r, r1 shown in the diagram correspond to the dimension columns in the specification table below.

Fit-tightness reference (drawing labels are in Chinese): L = 0.5 kg or less (hand-turnable) / M = 2–4 kg (spring gauge) / H = 5 kg or more (spring gauge).

Specification Table

Model Number	d (mm)	D (mm)	B (mm)	B1 (mm)	d1 (mm)	d2 (mm)	r Min. (mm)	r1 Min. (mm)	Cr (kN)	Cor (kN)	Remarks
JB300	10	35	11	9	27.91	25.03	0.6	0.6	8.2	3.5	Bearing 6200
JB201	12	32	10	8	26.15	25.1	1	0.6	6.1	2.75	Bearing 6001
JB301	12	37	12	10	29.66	27.15	1	0.6	9.7	4.2	Bearing 6201
JB202	15	35	11	9	30.05	28.04	1	0.6	7.75	3.6	Bearing 6002
JB302	15	42	13	11	32.5	30.73	1	0.6	11.4	5.45	Bearing 6202
JB203	17	40	12	10	32.88	31.1	1	0.6	9.6	4.6	Bearing 6003
JB303	17	47	14	12	37.47	35.03	1	0.6	13.5	6.55	Bearing 6203
JB204	20	47	14	12	39.6	37.3	1.1	1	12.8	6.65	Bearing 6004
JB304	20	52	15	14	44.54	41.6	1.1	1	15.9	7.9	Bearing 6204
JB205	25	52	15	15	44.54	42	1.1	1	14	7.85	Bearing 6005
JB305	25	62	17	17	49.14	46.4	1.1	1	21.2	10.9	Bearing 6205
JB206	30	62	16	16	52.62	49.4	1.1	1	19.5	11.3	Bearing 6006
JB306	30	72	19	19	59.02	54.42	1.1	1	26.7	15	Bearing 6206

Note: d = Bore; D = O.D.; B, B1 = Width; d1, d2 = Outer-ring spherical diameter; r, r1 = Minimum chamfer radius; Cr = Basic dynamic load rating; Cor = Basic static load rating.

Applications

- Woodworking, textile, and agricultural machinery.
- Transmission systems with long shafts susceptible to bending.
- Industrial conveyor and material handling equipment.

Structure & Principle

The outer ring has a spherical raceway whose center of curvature perfectly matches the bearing center. This allows the inner ring, balls, and cage to freely tilt and pivot around the center, providing a “self-aligning” effect that maintains smooth operation even when the shaft is misaligned.

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