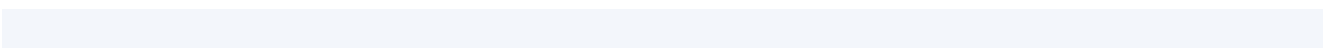


Deep Groove Ball Bearing Dimensions (6000, 6200 and 6300 series)

Boundary dimensions for the single-row deep groove ball bearing: bore d, outside diameter D and width B for the 6000, 6200 and 6300 series to ISO 15.

A deep groove ball bearing number encodes its size. The first digit is the bearing type (6 = single-row deep groove); the second is the ISO 15 dimension series, which sets how heavy the section is for a given bore (0 = 6000 light, 2 = 6200 medium, 3 = 6300 heavy); the last two digits give the bore. For bore codes 04 and up the bore is the code times 5 in mm, so 6204, 6304 and 6004 all have a 20 mm bore but different outside diameters and widths. The three numbers below — bore d, outside diameter D and width B — are the ISO 15 boundary dimensions and are the same for any maker (SKF, NSK, NTN, FAG and others), so a 6205 is 25 x 52 x 15 mm whatever the brand. Each column was cross-checked against two independent sources.

Bearing	Bore d (mm)	Outside diameter D (mm)	Width B (mm)
6000 series (dimension series 10, light)			
6000	10	26	8
6001	12	28	8
6002	15	32	9
6003	17	35	10
6004	20	42	12
6005	25	47	12
6006	30	55	13
6007	35	62	14
6008	40	68	15
6009	45	75	16
6010	50	80	16
6011	55	90	18
6012	60	95	18
6200 series (dimension series 02, medium)			
6200	10	30	9
6201	12	32	10
6202	15	35	11
6203	17	40	12
6204	20	47	14
6205	25	52	15
6206	30	62	16
6207	35	72	17
6208	40	80	18
6209	45	85	19
6210	50	90	20
6211	55	100	21
6212	60	110	22
6300 series (dimension series 03, heavy)			
6300	10	35	11
6301	12	37	12
6302	15	42	13
6303	17	47	14
6304	20	52	15
6305	25	62	17
6306	30	72	19



d = bore (shaft) diameter, D = outside (housing) diameter, B = bearing width; the 2RS (rubber sealed) and 2Z / ZZ (non-sealed) dimensions;

Reading the bearing number

- First digit (6) — the bearing type: 6 is a standard deep groove ball bearing.
- Second digit — the ISO 15 dimension series (light section), 2 = 6200 (medium), 3 = 6300 (heavy) series, a larger housing bore.
- Last two digits — the bore code. 00 = 10 mm, 04 = 20 mm, 05 = 25 mm, 06 = 30 mm, 08 = 40 mm, 10 = 50 mm, 12 = 60 mm, 15 = 75 mm, 18 = 90 mm, 20 = 100 mm, 22 = 110 mm, 24 = 120 mm, 26 = 130 mm, 28 = 140 mm, 30 = 150 mm, 32 = 160 mm, 34 = 170 mm, 36 = 180 mm, 38 = 190 mm, 40 = 200 mm, 42 = 215 mm, 44 = 230 mm, 46 = 240 mm, 48 = 250 mm, 50 = 260 mm, 52 = 270 mm, 54 = 280 mm, 56 = 290 mm, 58 = 300 mm, 60 = 315 mm, 62 = 330 mm, 64 = 350 mm, 66 = 370 mm, 68 = 390 mm, 70 = 420 mm, 72 = 450 mm, 74 = 475 mm, 76 = 500 mm, 78 = 530 mm, 80 = 560 mm, 82 = 600 mm, 84 = 630 mm, 86 = 670 mm, 88 = 700 mm, 90 = 750 mm, 92 = 800 mm, 94 = 850 mm, 96 = 900 mm, 98 = 950 mm, 00 = 1000 mm. The code is multiplied by 5 mm (04 = 20 mm, 05 = 25 mm, 06 = 30 mm, 08 = 40 mm, 10 = 50 mm, 12 = 60 mm, 15 = 75 mm, 18 = 90 mm, 20 = 100 mm, 22 = 110 mm, 24 = 120 mm, 26 = 130 mm, 28 = 140 mm, 30 = 150 mm, 32 = 160 mm, 34 = 170 mm, 36 = 180 mm, 38 = 190 mm, 40 = 200 mm, 42 = 215 mm, 44 = 230 mm, 46 = 240 mm, 48 = 250 mm, 50 = 260 mm, 52 = 270 mm, 54 = 280 mm, 56 = 290 mm, 58 = 300 mm, 60 = 315 mm, 62 = 330 mm, 64 = 350 mm, 66 = 370 mm, 68 = 390 mm, 70 = 420 mm, 72 = 450 mm, 74 = 475 mm, 76 = 500 mm, 78 = 530 mm, 80 = 560 mm, 82 = 600 mm, 84 = 630 mm, 86 = 670 mm, 88 = 700 mm, 90 = 750 mm, 92 = 800 mm, 94 = 850 mm, 96 = 900 mm, 98 = 950 mm, 00 = 1000 mm).
- So 6205 reads as deep groove (6), medium series (2) equivalent on the same 25 mm shaft (05).

Selecting and ordering

Match the bore d to the shaft, then confirm the housing bore D. If a shaft and housing are fixed, the three bore series are acceptable. A deep groove ball bearing is a 6205 regardless of the housing bore D needed: -2RS for contact rubber seals (greater-than-normal internal clearance when the shaft and housing are not change with these suffixes.

Reference compiled by cBallast for the ISO 15 deep groove ball bearing nominal and provided for identification and cross-reference. Please check the current data sheet before manufacture or procurement.