

Selection by Dimensions (Metric)

Bore Diameter 20 mm

Bore Diameter	OD	Width	Part Number	Type	Bearing Type
20	47	12	E20	D1	Single Row Radial Ball Bearings
	47	14	1204J	G	Double Row Self Aligning Ball Bearings
	47	14	1204KTN	G1	Double Row Self Aligning Ball Bearings
	47	14	1204TN	G	Double Row Self Aligning Ball Bearings
	47	14	6204	B	Single Row Radial Ball Bearings
	47	14	6204DDU	B2	Single Row Radial Ball Bearings
	47	14	6204DDUNR	B5	Single Row Radial Ball Bearings
	47	14	6204DU	B2	Single Row Radial Ball Bearings
	47	14	6204NR	B3	Single Row Radial Ball Bearings
	47	14	6204TCG12P4	B	Super Precision Bearings
	47	14	6204TCG12P4	B	Super Precision Bearings
	47	14	6204VV	B6	Single Row Radial Ball Bearings
	47	14	6204Z	B1	Single Row Radial Ball Bearings
	47	14	6204ZNR	B4	Single Row Radial Ball Bearings
	47	14	6204ZZ	B1	Single Row Radial Ball Bearings
	47	14	6204ZZNR	B4	Single Row Radial Ball Bearings
	47	14	7204BEAT85	D	Single Row Angular Contact Ball Bearings
	47	14	7204BEAT85SUN	D	Single Row Angular Contact Ball Bearings
	47	14	7204BW	D	Single Row Angular Contact Ball Bearings
	47	14	7204BWG	D	Single Row Angular Contact Ball Bearings
	47	14	L20	D1	Single Row Radial Ball Bearings
	47	14	N204ET	H	Cylindrical Roller Bearings
	47	14	N204W	H	Cylindrical Roller Bearings
	47	14	NF204W	H4	Cylindrical Roller Bearings
	47	14	NJ204ET	H1	Cylindrical Roller Bearings
	47	14	NJ204W	H1	Cylindrical Roller Bearings
	47	14	NU204ET	H2	Cylindrical Roller Bearings
	47	14	NU204W	H2	Cylindrical Roller Bearings
	47	14	NUP204W	H3	Cylindrical Roller Bearings
	47	15	20TAC47BSUC10PN7B	D	Super Precision Bearings
	47	15,25	30204J	F	Tapered Roller Bearings
	47	18	2204J	G	Double Row Self Aligning Ball Bearings
	47	18	2204-2RSTN	G2	Double Row Self Aligning Ball Bearings
	47	18	2204EKTN	G1	Double Row Self Aligning Ball Bearings
	47	18	2204ETN	G	Double Row Self Aligning Ball Bearings
	47	18	2204KJ	G1	Double Row Self Aligning Ball Bearings
	47	18	2204M	G	Double Row Self Aligning Ball Bearings
	47	18	4204J	L	Double Row Ball Bearings
	47	18	4204BTN	L	Double Row Ball Bearings
	47	18	51304	E	Thrust Ball Bearings
	47	18	NJ2204W	H1	Cylindrical Roller Bearings
	47	18	NU2204W	H3	Cylindrical Roller Bearings
	47	19,25	32204J	F	Tapered Roller Bearings
	47	20,6	3204B-2RSTN	M2	Double Row Angular Contact Ball Bearings
	47	20,6	3204B-22TN	M1	Double Row Angular Contact Ball Bearings
	47	20,6	3204BTN	M	Double Row Angular Contact Ball Bearings
	47	20,6	3204J	M	Double Row Angular Contact Ball Bearings
	47	20,64	LDJK20M	P1	Double Row Angular Contact Ball Bearings
	47	28	52205	N	Thrust Ball Bearings
	47	28	7204ASTRDULP3	D	Super Precision Bearings
	47	28	7204ASTRDUMP3	D	Super Precision Bearings
	47	28	7204CTRDULP3	D	Super Precision Bearings
	47	28	7204CTRDUMP3	D	Super Precision Bearings
	47	30	BSB020047DUHP3	D	Super Precision Bearings
	47	31,75	BSB078DUHP3	D	Super Precision Bearings
	47	40	11204TN	G4	Double Row Self Aligning Ball Bearings
	50	36	54205	N1	Thrust Ball Bearings
	52	15	1304J	G	Double Row Self Aligning Ball Bearings
	52	15	1304KJ	G1	Double Row Self Aligning Ball Bearings
	52	15	1304TN	G	Double Row Self Aligning Ball Bearings
	52	15	21304CDE4	K	Spherical Roller Bearings

Self-Aligning Ball Bearings



22

Basic Type & Series
1200: Metric, self-aligning, extra narrow
1300: Metric, self-aligning, narrow
2200: Metric, self-aligning, wide
2300: Metric, self-aligning, extra wide
NLJ: Inches, self aligning, light
NMJ: Inches, self aligning, medium

06

Bore Size
Metric:
(04 and up: multiply last two numbers by 5 to get bore in mm)
00: 10 mm 04: 20 mm
01: 12 mm 05: 25 mm
02: 15 mm 12: 60 mm
03: 17 mm 20: 100 mm
Inch: directly indicated

2RS

Suffixes
2RS: Double contact seal
K: Taper bore 1:12
E: Extra Capacity
NR: Snap Ring

TNG

Cage Material
TNG: Polyamide
J: Pressed Steel

C3

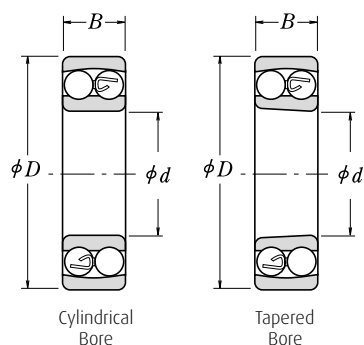
Internal Clearance
C2: Tight
Blank: Normal
C3: Loose
C4: Extra Loose

Typical Applications

- › Film Processing Equipment › Vertical Spinning Equipment › Vertical Weaving Equipment › Paper Making – Fourdrinier
- › Industrial Countershafts

Double Row Self Aligning Ball Bearings

Bore Diameter 5 – 30 mm



Boundary Dimensions (mm)			Basic Load Ratings (N)		Limiting Speeds (min ⁻¹)		Bearing Numbers		Mass (kg)
d	D	B	C _r	C _{0r}	Grease	Oil	Cylindrical Bore	Tapered Bore ¹⁾	approx
5	19	6	2 530	475	30 000	36 000	135	–	0,009
6	19	6	2 530	475	30 000	36 000	126	–	0,008
7	22	7	2 750	600	26 000	32 000	127	–	0,013
8	22	7	2 750	600	26 000	32 000	108	–	0,016
9	26	8	4 150	895	26 000	30 000	129	–	0,021
10	30	9	5 550	1 190	22 000	28 000	1200	–	0,033
	30	14	7 450	1 590	24 000	28 000	2200	–	0,042
	35	11	7 350	1 620	20 000	24 000	1300	–	0,057
	35	17	9 200	2 010	18 000	22 000	2300	–	0,077
12	32	10	5 700	1 270	22 000	26 000	1201	–	0,039
	32	14	7 750	1 730	22 000	26 000	2201	–	0,048
	37	12	9 650	2 160	18 000	22 000	1301	–	0,066
	37	17	12 100	2 730	17 000	22 000	2301	–	0,082
15	35	11	7 600	1 750	18 000	22 000	1202	–	0,051
	35	14	7 800	1 850	18 000	22 000	2202	–	0,055
	42	13	9 700	2 290	16 000	20 000	1302	–	0,093
	42	17	12 300	2 910	14 000	18 000	2302	–	0,108
17	40	12	8 000	2 010	16 000	20 000	1203	–	0,072
	40	16	9 950	2 420	16 000	20 000	2203	–	0,085
	47	14	12 700	3 200	14 000	17 000	1303	–	0,13
	47	19	14 700	3 550	13 000	16 000	2303	–	0,15
20	47	14	10 000	2 610	14 000	17 000	1204	1204 K	0,12
	47	18	12 800	3 300	14 000	17 000	2204	2204 K	0,133
	52	15	12 600	3 350	12 000	15 000	1304	1304 K	0,165
	52	21	18 500	4 700	11 000	14 000	2304	2304 K	0,193
25	52	15	12 200	3 300	12 000	14 000	1205	1205 K	0,14
	52	18	12 400	3 450	12 000	14 000	2205	2205 K	0,15
	62	17	18 200	5 000	10 000	13 000	1305	1305 K	0,255
	62	24	24 900	6 600	9 500	12 000	2305	2305 K	0,319
30	62	16	15 800	4 650	10 000	12 000	1206	1206 K	0,22
	62	20	15 300	4 550	10 000	12 000	2206	2206 K	0,249
	72	19	21 400	6 300	8 500	11 000	1306	1306 K	0,385
	72	27	32 000	8 750	8 000	10 000	2306	2306 K	0,48

¹⁾ The suffix K represents bearings with tapered bores (1 : 12).

For the dimensions related to adapters, refer to Page B354 on Cat. RB/A/GB/...