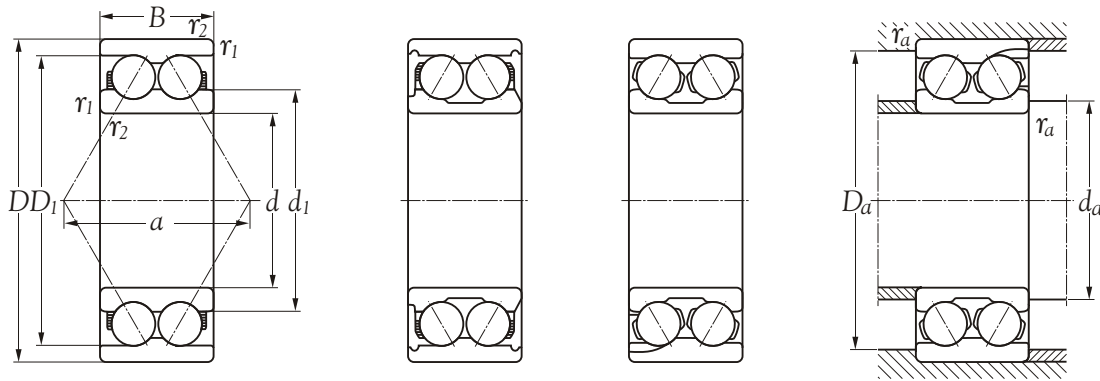




Technical Information

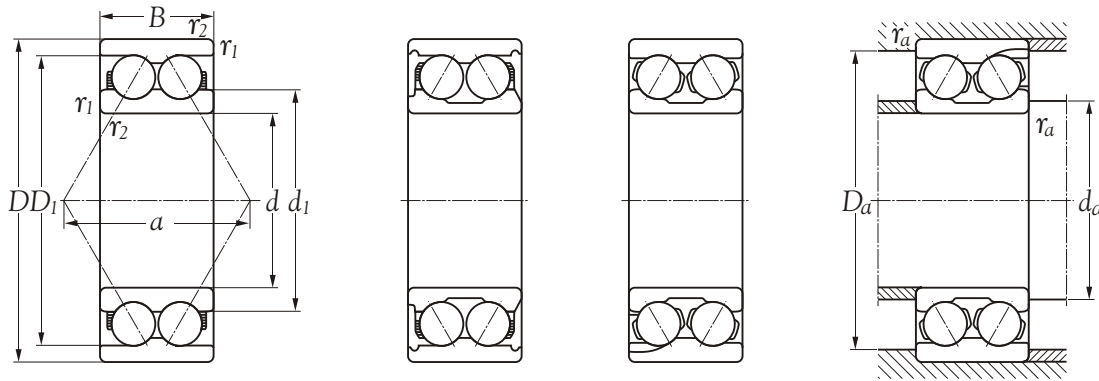
DOUBLE ROW ANGULAR CONTACT BALL BEARINGS



Inner bore <i>d</i> mm	Bearing number	Principal dimensions		Basic load ratings		Max runout speed		Dimensions(mm)				Abutment and fillet dimensions(mm)			Mass kg
		<i>D</i> mm	<i>B</i> mm	<i>C</i> N	<i>Co</i> N	Grease r/min	oil r/min	$\underline{\underline{d}}_1$	$\underline{\underline{D}}_1$	$r_{1,2}$ min	<i>a</i>	r_a max	d_a min	D_a max	
10	3200 A	30	14.0	5900	3400	11200	15400	17.7	23.6	0.6	18	0.6	15	25	0.051
12	3201 A	32	15.9	8000	4400	10500	14000	19.1	26.5	0.6	20	0.6	17	27	0.058
15	3202 A	35	15.9	8900	5400	8400	11900	22.1	29.5	0.6	22	0.6	20	30	0.066
17	3203 A	40	17.5	11200	6900	7000	10500	25.2	33.6	0.6	25	0.6	22	35	0.096
20	3204 A	47	20.6	14800	9600	6300	9100	29.6	39.5	1.0	30	1.0	26	41	0.160
25	3205 A	52	20.6	16200	11200	5600	7700	34.6	44.5	1.0	33	1.0	31	46	0.180
30	3206 A	62	23.8	22400	16000	4900	6600	41.4	53.2	1.0	38	1.0	36	56	0.290
35	3207 A	72	27.0	29600	22000	4200	5600	48.1	61.9	1.1	45	1.0	42	65	0.440
40	3208 A	80	30.2	35900	26800	3900	5200	47.8	72.1	1.1	49	1.0	47	73	0.580
40	3208 E	80	30.2	38700	38400	3900	5200	47.8	72.1	1.1	49	1.0	47	73	0.640
45	3209 A	85	30.2	38000	30400	3500	4600	52.8	77.1	1.1	52	1.0	52	78	0.630
45	3209 E	85	30.2	40000	42400	3500	4600	52.8	77.1	1.1	52	1.0	52	78	0.690
50	3210 A	90	30.2	38000	31200	3300	4400	57.8	82.1	1.1	56	1.0	57	83	0.660
50	3210 E	90	30.2	42200	46800	3300	4400	57.8	82.1	1.1	56	1.0	57	83	0.740
55	3211	100	33.3	45700	53600	3000	3900	70.4	88.3	1.1	64	1.5	64	91	1.050
60	3212	110	36.5	57600	68000	2600	3500	78.0	98.3	1.5	71	1.5	69	101	1.400
65	3213	120	38.1	62400	76000	2500	3300	83.7	105.0	1.5	76	1.5	74	111	1.750
70	3214	125	39.7	61200	78400	2200	3000	90.6	111.0	1.5	81	1.5	79	116	1.900
75	3215	130	41.3	367300	88000	2200	3000	94.7	116.0	1.5	84	1.5	84	121	2.100
80	3216	140	44.4	80800	107200	1900	2600	102.0	127.0	2.0	91	2.0	90	130	2.650
85	3217	150	49.2	88000	116800	1800	2500	107.0	133.0	2.0	97	2.0	95	140	3.400
90	3218	160	52.4	102400	138400	1600	2300	115.0	143.0	2.0	104	2.0	100	150	4.150
95	3219	170	55.6	117600	163200	1500	2200	124.0	154.0	2.1	111	2.0	107	158	5.000
100	3220	180	60.3	125600	176000	1400	2100	129.0	160.0	2.1	118	2.0	112	168	6.100
110	3222	200	69.8	152000	216000	1300	1900	143.0	178.0	2.1	132	2.0	122	188	8.800

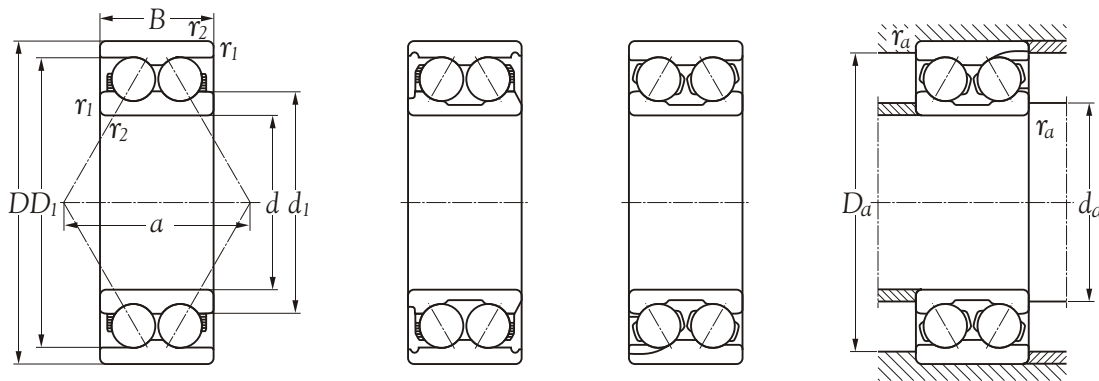


DOUBLE ROW ANGULAR CONTACT BALL BEARINGS



Inner bore <i>d</i> mm	Bearing number	Principal dimensions		Basic load ratings		Max runout speed		Dimensions(mm)				Abutment and fillet dimensions(mm)			Mass kg
		<i>D</i> mm	<i>B</i> mm	dynamic <i>C</i> N	static <i>Co</i> N	Grease r/min	oil r/min	$\underline{\underline{d_1}}$	$\underline{\underline{D_1}}$	$r_{1,2}$ min	<i>a</i>	r_a max	d_a min	D_a max	
10	3202 A-ZZ	30	14.0	5900	3400	11200		17.7	25.0	0.6	18	0.6	15	-	0.051
12	3203 A-ZZ	32	15.9	8000	4400	10500		19.1	27.7	0.6	20	0.6	17	-	0.058
15	3204 A-ZZ	35	15.9	8900	5400	8400		22.1	30.7	0.6	22	0.6	20	-	0.066
17	3205 A-ZZ	40	17.5	11200	6900	7000		25.2	35.0	0.6	25	0.6	22	-	0.096
20	3206 A-ZZ	47	20.6	14800	9600	6300		29.6	40.9	1.0	30	0.6	26	-	0.160
25	3206 E-ZZ	52	20.6	16200	11200	5600		34.6	45.9	1.0	33	1.0	31	-	0.180
30	3207 A-ZZ	62	23.8	22400	16000	4900		41.4	55.2	1.0	38	1.0	36	-	0.290
35	3207 E-ZZ	72	27.0	29600	22000	4200		48.1	63.9	1.1	45	1.0	42	-	0.440
40	3208 A-ZZ	80	30.2	35900	26800	3900		47.8	72.1	1.1	49	1.0	47	47.5	0.580
40	3208 E-ZZ	80	30.2	38700	38400	3900		47.8	72.1	1.1	49	1.0	47	47.5	0.640
45	3209 A-ZZ	85	30.2	38000	30400	3500		52.8	77.1	1.1	52	1.0	52	78.0	0.630
45	3209 E-ZZ	85	30.2	40000	42400	3500		52.8	77.1	1.1	52	1.0	52	78.0	0.690
50	3210 A-ZZ	90	30.2	38000	31200	3300		57.8	82.1	1.1	56	1.0	57	83.0	0.660
50	3210 E-ZZ	90	30.2	42200	46800	3300		57.8	82.1	1.1	56	1.0	57	83.0	0.740





Inner bore <i>d</i> mm	Bearing number	Principal dimensions		Basic load ratings		Max runout speed		Dimensions(mm)				Abutment and fillet dimensions(mm)			Mass kg
		<i>D</i> mm	<i>B</i> mm	dynamic <i>C</i>	static <i>Co</i>	Grease <i>N</i>	oil	$\underline{\underline{d_1}}$	$\underline{\underline{D_1}}$	$r_{1,2}$ min	<i>a</i>	r_a max	d_a min	D_a max	
10	3200 A-2RS	30	14.0	5900	3400	11200		17.7	25.0	0.6	18	0.6	15	-	0.051
12	3201 A-2RS	32	15.9	8000	4400	10500		19.1	27.7	0.6	20	0.6	17	-	0.058
15	3202 A-2RS	35	15.9	8900	5400	8400		22.1	30.7	0.6	22	0.6	20	-	0.066
17	3203 A-2RS	40	17.5	11200	6900	7000		25.2	35.0	0.6	25	0.6	22	-	0.096
20	3204 A-2RS	47	20.6	14800	9600	6300		29.6	40.9	1.0	30	0.6	26	-	0.160
25	3205 A-2RS	52	20.6	16200	11200	5600		34.6	45.9	1.0	33	1.0	31	-	0.180
30	3206 A-2RS	62	23.8	22400	16000	4900		41.4	55.2	1.0	38	1.0	36	-	0.290
35	3207 A-2RS	72	27.0	29600	22000	4200		48.1	63.9	1.1	45	1.0	42	-	0.440
40	3208 A-2RS	80	30.2	35900	26800	3900		47.8	72.1	1.1	49	1.0	47	47.5	0.580
40	3208 E-2RS	80	30.2	38700	38400	3900		47.8	72.1	1.1	49	1.0	47	47.5	0.640
45	3209 A-2RS	85	30.2	38000	30400	3500		52.8	77.1	1.1	52	1.0	52	78.0	0.630
45	3209 E-2RS	85	30.2	40000	42400	3500		52.8	77.1	1.1	52	1.0	52	78.0	0.690
50	3210 A-2RS	90	30.2	38000	31200	3300		57.8	82.1	1.1	56	1.0	57	83.0	0.660
50	3210 E-2RS	90	30.2	42200	46800	3300		57.8	82.1	1.1	56	1.0	57	83.0	0.740