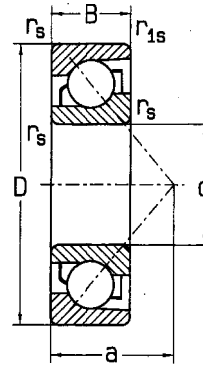


Single Row Angular Contact Ball Bearings

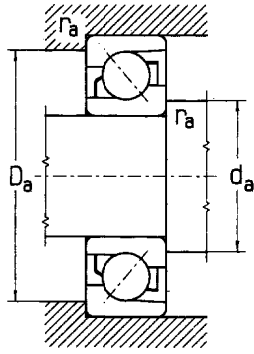
Sizes 15 mm – 45 mm



C

Dimensions						Basic Load Rating		Limiting Speed for Lubricating by		Bearing Designation
d	D	B	r _s min	r _{1s} min	a	Dynamic C _r	Static C _{0r}	Grease	Oil	
mm						kN lbf		min ⁻¹		
15	35	11	0.6	0.3	12	8.1 <i>1,810</i>	4.82 <i>1,080</i>	17,000	20,000	7202AA
	35	11	0.6	0.3	16	7.36 <i>1,650</i>	4.38 <i>981</i>	17,000	20,000	7202B
17	40	12	0.6	0.3	13	10.4 <i>2,330</i>	6.19 <i>1,390</i>	15,000	18,000	7203AA
	40	12	0.6	0.3	18	11 <i>2,460</i>	6.07 <i>1,360</i>	17,000	20,000	7203B
	47	14	1	0.6	15	14.1 <i>3,160</i>	7.94 <i>1,780</i>	12,600	15,000	7303AA
	47	14	1	0.6	20	13.3 <i>2,990</i>	7.22 <i>1,620</i>	12,600	15,000	7303B
20	47	14	1	0.6	15	14.4 <i>3,220</i>	8.58 <i>1,920</i>	12,600	15,000	7204AA
	47	14	1	0.6	21	13.3 <i>2,990</i>	7.64 <i>1,710</i>	12,600	15,000	7204B
	52	15	1.1	0.6	23	18.8 <i>4,220</i>	10.4 <i>2,330</i>	13,000	16,000	7304B
25	52	15	1	0.6	17	16.2 <i>3,620</i>	10.6 <i>2,370</i>	10,600	12,600	7205AA
	52	15	1	0.6	24	15.8 <i>3,550</i>	9.81 <i>2,200</i>	12,600	15,000	7205B
	62	17	1.1	0.6	27	24.2 <i>5,410</i>	14.7 <i>3,290</i>	9,400	11,000	7305B
30	62	16	1	0.6	27	22.4 <i>5,010</i>	14.7 <i>3,290</i>	10,600	12,600	7206B
	72	19	1.1	0.6	31	32.5 <i>7,360</i>	19.6 <i>4,380</i>	7,900	9,400	7306B
35	72	17	1.1	0.6	31	27.1 <i>6,070</i>	18.5 <i>4,140</i>	7,900	9,400	7207B
	80	21	1.5	1	35	36.9 <i>8,250</i>	24.2 <i>5,410</i>	7,100	8,400	7307B
40	80	18	1.1	0.6	23	37.6 <i>8,410</i>	26.6 <i>5,960</i>	7,100	8,400	7208AA
	80	18	1.1	0.6	34	36.9 <i>8,250</i>	24.6 <i>5,520</i>	7,900	9,400	7208B
	90	23	1.5	1	27.2	48.2 <i>10,800</i>	33.5 <i>7,500</i>	6,300	7,500	7308AA
	90	23	1.5	1	39	44.7 <i>10,000</i>	30.4 <i>6,810</i>	7,100	8,400	7308B
45	85	19	1.1	0.6	25.5	39.8 <i>8,910</i>	29.3 <i>6,560</i>	6,300	7,500	7209AA
	85	19	1.1	0.6	37	38.3 <i>8,500</i>	27.1 <i>6,070</i>	7,500	8,500	7209B
	100	25	1.5	1	43	58.2 <i>13,100</i>	39.8 <i>8,910</i>	5,600	6,700	7309B

Bearing designations printed in bold face type are currently in our manufacturing schedule. Those shown in normal face type are made to order.

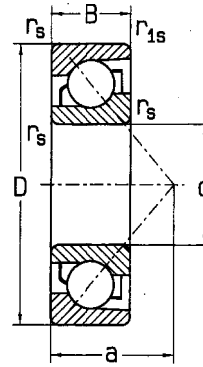


C

d	Abutment and Fillet Dimensions			Weight
	d_a min	D_a max	r_a max	
mm				kg lbs
15	19	31	0.6	0.050 0.110
	19	31	0.6	0.050 0.110
17	21	36	0.6	0.070 0.154
	21	36	0.6	0.070 0.154
	23	41	1	0.120 0.264
	23	41	1	0.120 0.264
20	25	42	1	0.110 0.242
	25	42	1	0.110 0.242
	26	45	1	0.150 0.330
25	30	47	1	0.135 0.297
	30	47	1	0.135 0.297
	31	55	1	0.240 0.528
30	35	57	1	0.200 0.440
	36	65	1	0.360 0.793
35	42	65	1	0.290 0.639
	42	71	1.5	0.480 1.057
40	47	73	1	0.370 0.815
	47	73	1	0.370 0.815
	47	81	1.5	0.660 1.453
	47	81	1.5	0.660 1.453
45	52	78	1	0.425 0.936
	52	78	1	0.425 0.936
	52	91	1.5	0.880 1.938

Single Row Angular Contact Ball Bearings

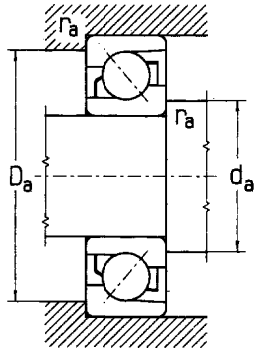
Sizes 50 mm – 75 mm



C

Dimensions						Basic Load Rating		Limiting Speed for Lubricating by		Bearing Designation
d	D	B	r _s min	r _{1s} min	a	Dynamic C _r	Static C _{0r}	Grease	Oil	
mm						kN lbf		min ⁻¹		
50	90	20	1.1	0.6	27	41.4 9,260	32.2 7,220	6,000	7,100	7210AA
	90	20	1.1	0.6	39	39.8 8,910	29.9 6,680	6,700	7,900	7210B
	110	27	2	1	47	68.1 15,300	48.2 10,800	5,000	6,000	7310B
55	100	21	1.5	1	29.5	51.1 11,400	40.6 9,090	5,300	6,300	7211AA
	100	21	1.5	1	43	51.1 11,400	39.8 8,910	6,300	7,500	7211B
	120	29	2	1	51	79.4 17,800	56.2 12,600	4,700	5,600	7311B
60	110	22	1.5	1	32	61.9 13,900	50.1 11,200	5,000	6,000	7212AA
	110	22	1.5	1	47	61.9 13,900	48.2 10,800	5,600	6,700	7212B
	130	31	2.1	1.1	55	90 20,300	65.6 14,700	4,200	5,000	7312B
65	120	23	1.5	1	34	70.8 15,800	59.6 13,300	4,500	5,300	7213AA
	120	23	1.5	1	50	66.8 15,000	54.1 12,100	5,300	6,300	7213B
	140	33	2.1	1.1	41	110 24,600	84.1 18,800	4,000	4,700	7313AA
	140	33	2.1	1.1	60	108 24,200	79.4 17,800	4,700	5,600	7313B
70	125	24	1.5	1	53	69.4 15,500	57.3 12,800	4,200	5,000	7214B
	150	35	2.1	1.1	44.5	123 27,600	96.2 21,500	3,800	4,500	7314AA
	150	35	2.1	1.1	64	119 26,600	90.9 20,300	4,200	5,000	7314B
75	130	25	1.5	1	56	71 15,800	61.9 13,900	4,200	5,000	7215B
	160	37	2.1	1.1	47	140 31,600	108 24,200	3,300	4,000	7315AA
	160	37	2.1	1.1	68	125 28,200	98.1 22,000	3,300	4,000	7315B

Bearing designations printed in bold face type are currently in our manufacturing schedule. Those shown in normal face type are made to order.



C

Abutment and Fillet Dimensions				Weight
d	d _a min	D _a max	r _a max	~
mm				kg lbs
50	57	83	1	0.480 1.057
	57	83	1	0.480 1.057
	60	100	2	1.14 2.51
55	61	91	1.5	0.630 1.387
	62	91	1.5	0.630 1.387
	65	110	2	1.45 3.19
60	67	101	1.05	0.800 1.762
	67	101	1.5	0.800 1.762
	72	118	2	1.81 3.99
65	72	111	1.5	1.00 2.20
	72	111	1.5	1.00 2.20
	76	128	2	2.71 5.97
	76	128	2	2.71 5.97
70	77	116	1.5	1.10 2.42
	81	138	2	3.16 6.96
	81	138	2	3.16 6.96
75	82	121	1.5	1.21 2.66
	86	148	2	3.88 8.54
	86	148	2	3.88 8.54