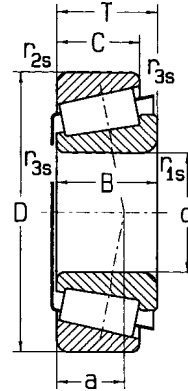
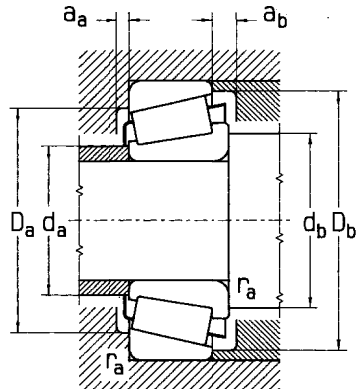


Single Row Tapered Roller Bearings

Sizes 17 mm – 35 mm



Dimensions									Basic Load Rating		Limiting Speed for Lubricating by	
d	D	B	C	T	r _{1s} min	r _{2s} min	r _{3s} min	a	Dynamic C _r	Static C _{or}	Grease	Oil
mm									kN		min ⁻¹	
									lbf			
17	40	12	11	13.25	1	1	0.3	9	16.8	16.5	11,000	15,000
	47	14	12	15.25	1	1	0.3	10	3,770 27.6 6,200	3,700 22.8 5,120	10,000	13,000
20	47	14	12	15.25	1	1	0.3	11	27.6	26.1	10,000	13,000
	52	15	13	16.25	1.5	1.5	0.6	11	6,200 33.5	5,860 29.9	10,000	13,000
	52	21	18	22.25	1.5	1.5	0.6	13	7,530 48.2 10,800	6,720 45.5 10,220	8,900	12,000
25	47	15	11.5	15	0.6	0.6	0.3	12	26.6	28.7	10,000	13,000
	52	15	13	16.25	1	1	0.3	12	5,970 32.9	6,450 33.5	8,900	12,000
	62	17	15	18.25	1.5	1.5	0.6	13	7,390 43.8	7,530 38.3	7,900	10,600
	62	17	13	18.25	1.5	1.5	0.6	20	9,840 39.8	8,580 39.1	7,100	9,400
	62	24	20	25.25	1.5	1.5	0.6	15	8,940 63.1 14,100	8,740 60.7 13,600	7,100	9,400
30	55	17	13	17	1	1	0.3	13	35.5	43.8	7,100	9,400
	62	16	14	17.25	1	1	0.3	14	7,940 44.7	9,810 44.7	7,500	10,000
	62	20	17	21.25	1	1	0.3	15	10,000 50.1	10,000 59.6	6,700	8,900
	72	19	16	20.75	1.5	1.5	0.6	15	11,260 58.4	13,390 53.1	6,700	8,900
	72	19	14	20.75	1.5	1.5	0.6	23	13,100 51.1	11,900 50.1	6,000	7,900
	72	27	23	28.75	1.5	1.5	0.6	20	11,400 84.1 18,900	11,200 85.8 19,200	6,300	8,400
35	62	18	14	18	1	1	0.3	15	47.3	53.1	7,100	9,400
	72	17	15	18.25	1.5	1.5	0.6	15	10,600 51.1	11,900 51.1	6,300	8,400
	72	23	19	24.25	1.5	1.5	0.6	17	11,400 70.8	11,400 76.4	6,300	8,400
	80	21	18	22.75	2	1.5	0.6	16	15,900 72.2	17,100 69.4	6,000	7,900
	80	21	15	22.75	2	1.5	0.6	26	16,200 63.1	15,500 63.1	5,300	7,100
	80	31	25	32.75	2	1.5	0.6	20	14,100 104 23,300	14,100 110 24,600	5,600	7,500
	80	31	25	32.75	2	1.5	0.6	20				

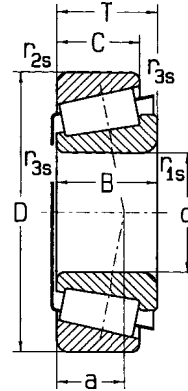


Bearing Designation	Abutment and Fillet Dimensions									Weight	Factors		
	d	d _a max	d _b min	D _a min	D _a max	D _b min	a _a min	a _b min	r _a max		e	Y	Y ₀
	mm									kg lbs			
30203A	17	23	23	33	34	37	2	2	1	0.081 0.178	0.35	1.7	1
30303A		25	23	39	41	42	2	3	1	0.140 0.308	0.29	2.1	1.2
30204A	20	26	26	39	41	43	2	3	1	0.136 0.299	0.35	1.7	1
30304A		27	27	43	45	47	2	3	1	0.179 0.394	0.30	2	1.1
32304A		27	27	43	45	47	2	4	1	0.267 0.588	0.30	2	1
32005AX	25	30	31	40.5	42	44	3	3.5	0.6	0.117 0.258	0.43	1.4	0.8
30205A		31	31	43	46	48	2	3	1	0.167 0.368	0.37	1.6	0.9
30305A		33	32	53	55	57	2	3	1	0.288 0.634	0.30	2	1.1
31305A		33	32	46	55	59	2	5	1	0.271 0.597	0.83	0.7	0.4
32305A		33	32	53	55	57	2	5	1	0.404 0.890	0.30	2	1.1
32006AX	30	35	36	47.5	49	52	3	4	1	0.175 0.385	0.43	1.4	0.8
30206A		37	36	52	56	57	2	3	1	0.256 0.564	0.37	1.6	0.9
32206A		37	36	52	56	58	2	4	1	0.320 0.706	0.37	1.6	0.9
30306A		38	37	61	65	66	2	4.5	1	0.419 0.923	0.32	1.9	1.1
31306A		39	37	55	65	68	2	6.5	1	0.416 0.916	0.83	0.7	0.4
32306A		38	37	61	65	66	2	5.5	1	0.628 1.383	0.32	1.9	1.1
32007AX	35	40	41	54	56	59	4	4	1	0.243 0.535	0.45	1.3	0.7
30207A		43	42	61	65	67	3	3	1	0.361 0.795	0.37	1.6	0.9
32207A		43	42	61	65	68.5	3	5	1	0.480 1.057	0.37	1.6	0.9
30307A		43	44	68	71	74	3	4.5	1.5	0.551 1.213	0.32	1.9	1.1
31307A		43	44	61	71	76	3	7.5	1.5	0.540 1.189	0.83	0.7	0.4
32307A		43	44	68	71	74	3	7.5	1.5	0.827 1.821	0.32	1.9	1.1

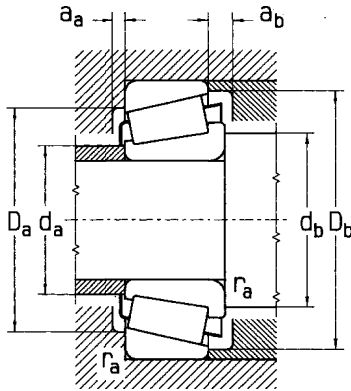
Bearing designations printed in bold face type are currently in our manufacturing schedule. Those shown in normal face type are made to order.

Single Row Tapered Roller Bearings

Sizes 40 mm – 50 mm



Dimensions									Basic Load Rating		Limiting Speed for Lubricating by	
d	D	B	C	T	r _{1s} min	r _{2s} min	r _{3s} min	a	Dynamic C _r	Static C _{0r}	Grease	Oil
mm									kN		min ⁻¹	
									lbf			
40	68	19	14.5	19	1	1	0.3	15	53.1 11,900	64.3 14,400	6,300	8,400
	80	18	16	19.75	1.5	1.5	0.6	17	60.7 13,600	60.7 13,600	5,600	7,500
	80	23	19	24.75	1.5	1.5	0.6	19	77.9 17,500	85.5 19,200	5,600	7,500
	90	23	20	25.25	2	1.5	0.6	18	90.9 20,400	94.4 21,100	5,300	7,100
	90	23	17	25.25	2	1.5	0.6	19	76.4 17,100	85.8 19,200	4,000	5,300
	90	33	27	35.25	2	1.5	0.6	22	126 28,300	141 31,600	4,700	6,300
	90	33	27	35.35	2	1.5	0.6	27	104 23,300	144 32,200	4,200	5,600
45	75	20	15.5	20	1	1	0.3	17	63.1 14,100	79.4 17,800	6,000	7,900
	85	19	16	20.75	1.5	1.5	0.6	18	68.1 15,300	70.8 15,800	5,300	7,100
	85	23	19	24.75	1.5	1.5	0.6	20	81 18,200	90.9 20,300	5,300	7,100
	106	25	22	27.25	2	1.5	0.6	21	114 25,600	117 26,100	4,700	6,300
	100	25	18	27.25	2	1.5	0.6	32	92.6 20,700	104 23,300	3,800	5,000
	100	36	30	38.25	2	1.5	0.6	25	158 35,500	181 40,600	4,200	5,600
	100	36	30	38.25	2	1.5	0.6	31	131 29,300	174 39,100	3,800	5,000
50	80	20	15.5	20	1	1	0.3	18	65.6 14,700	87.4 19,600	5,300	7,100
	90	20	17	21.75	1.5	1.5	0.6	20	77.9 17,500	87.4 19,600	5,000	6,700
	90	23	19	24.75	1.5	1.5	0.6	21	89.1 20,000	102 22,800	5,000	6,700
	110	27	23	29.25	2.5	2	0.6	23	133 29,800	141 31,600	4,200	5,600
	110	27	19	29.25	2.5	2	0.6	35	112 25,100	114 25,600	3,800	5,000
	110	40	33	42.25	2.5	2	0.6	27	192 43,100	224 50,100	4,000	5,300
	110	40	33	42.25	2.5	2	0.6	33	155 34,800	215 48,200	3,300	4,500

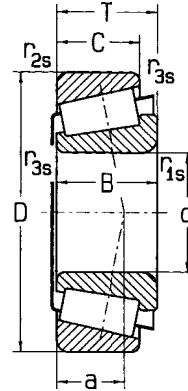


Bearing Designation	Abutment and Fillet Dimensions									Weight	Factors		
	d	d _a max	d _b min	D _a min	D _a max	D _b min	a _a min	a _b min	r _a max		e	Y	Y ₀
	mm									kg lbs			
32008AX	40	45	46	60	62	65	4	4.5	1	0.290 0.639	0.38	1.6	0.9
30208A		48	47	68	73	75.5	3	3.5	1	0.452 0.995	0.37	1.6	0.9
32208A		48	47	68	73	75	3	5.5	1	0.594 1.308	0.37	1.6	0.9
30308A		50	49	76	81	82	3	5	1.5	0.801 1.764	0.35	1.7	1
31308A		50	49	70	81	86	3	8	1.5	0.779 1.715	0.83	0.7	0.4
32308A		50	49	76	81	82	3	8	1.5	1.12 2.47	0.35	1.7	1
32308BA		50	49	70	81	85	4	8	1.5	1.11 2.44	0.54	1.1	0.6
32009AX	45	50	51	66	69	72	4	4.5	1	0.355 0.782	0.39	1.5	0.8
30209A		53	52	73	78	80	3	4.5	1	0.527 1.160	0.41	1.5	0.8
32209A		53	52	73	78	81.5	3	5.5	1	0.641 1.411	0.41	1.5	0.8
30309A		56	54	85	91	92	3	5	1.5	1.04 2.29	0.35	1.7	1
31309A		55	54	78	91	95	3	9	1.5	1.02 2.25	0.83	0.7	0.4
322309A		56	54	85	91	93	3	8	1.5	1.53 3.37	0.35	1.7	1
32309BA		55	54	76	91	94	5	8	1.5	1.54 3.39	0.54	1.1	0.6
32010AX	50	55	56	71	74	77	4	4.5	1	0.395 0.870	0.42	1.4	0.8
30210A		58	57	78	83	86.5	3	4.5	1	0.602 1.326	0.42	1.4	0.8
32210A		58	57	78	83	85	3	5.5	1	0.667 1.469	0.42	1.4	0.8
30310A		62	60	94	100	102	3	6	2	1.32 2.91	0.35	1.7	1
31310A		61	60	85	100	104	3	10	2	1.29 2.84	0.83	0.7	0.4
32310A		62	60	94	100	102	3	9	2	2.01 4.43	0.35	1.7	1
32310BA		62	60	83	100	103	5	9	2	1.99 4.38	0.54	1.1	0.6

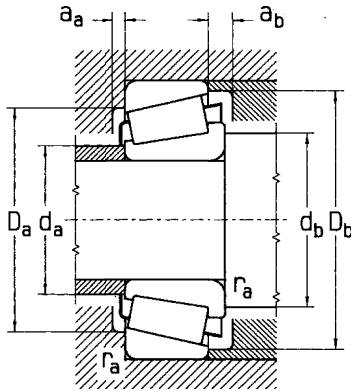
Bearing designations printed in bold face type are currently in our manufacturing schedule. Those shown in normal face type are made to order.

Single Row Tapered Roller Bearings

Sizes 55 mm – 65 mm



Dimensions									Basic Load Rating		Limiting Speed for Lubricating by	
d	D	B	C	T	r _{1s} min	r _{2s} min	r _{3s} min	a	Dynamic C _r	Static C _{or}	Grease	Oil
mm									kN		min ⁻¹	
									lbf			
55	90	23	17.5	23	1.5	1.5	0.6	20	84.1 18,900	108 24,200	4,700	6,300
	100	21	18	22.75	2	1.5	0.6	21	89.1 20,000	96.2 21,500	4,500	6,000
	100	25	21	26.75	2	1.5	0.6	22	112 25,100	128 28,700	4,500	6,000
	120	29	25	31.5	2.5	2	0.6	25	150 33,700	162 36,200	3,800	5,000
	120	29	21	31.5	2.5	2	0.6	38	128 28,700	136 30,400	3,500	4,700
	120	43	35	45.5	2.5	2	0.6	29	220 49,400	256 57,300	3,500	4,700
60	95	23	17.5	23	1.5	1.5	0.6	21	89.1 20,000	119 26,600	4,500	6,000
	110	22	19	23.75	2	1.5	0.6	22	104 23,300	117 26,100	4,000	5,300
	110	28	24	29.75	2	1.5	0.6	25	139 31,200	162 36,200	4,000	5,300
	130	31	26	33.5	3	2.5	1	26	178 40,000	188 42,200	3,500	4,700
	130	31	22	33.5	3	2.5	1	41	150 33,700	158 30,400	3,200	4,200
	130	46	37	48.5	3	2.5	1	31	251 56,400	299 60,800	3,300	4,500
	130	46	37	48.5	3	2.5	1	39	211 47,300	293 65,600	2,800	3,800
65	100	23	17.5	23	1.5	1.5	0.6	23	89.1 20,000	123 27,600	4,200	5,600
	120	23	20	24.75	2	1.5	0.6	24	123 27,600	136 30,400	3,800	5,000
	120	31	27	32.75	2	1.5	0.6	28	165 37,000	200 44,700	3,800	5,000
	140	33	28	36	3	2.5	1	28	203 45,600	220 49,200	3,300	4,500
	140	33	23	36	3	2.5	1	44	165 37,000	178 39,800	3,000	4,000
	140	48	39	51	3	2.5	1	33	287 64,500	331 75,000	3,000	4,000

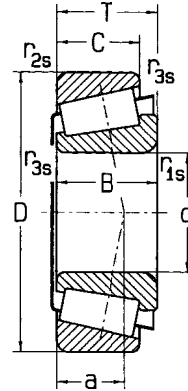


Bearing Designation	Abutment and Fillet Dimensions									Weight	Factors			
	d	d _a max	d _b min	D _a min	D _a max	D _b min	a _a min	a _b min	r _a max		~	e	Y	Y ₀
	mm									kg lbs				
32011AX	55	61	62	80	83	86	4	5.5	1	0.592 1.304	0.41	1.5	0.8	
30211A		63	64	87	91	94	4	4.5	1.5	0.759 1.671	0.41	1.5	0.8	
32211A		63	64	87	91	95	4	5.5	1	0.915 2.015	0.41	1.5	0.8	
30311A		67	65	103	110	111	4	6.5	2	1.72 3.19	0.35	1.7	1	
31311A		67	65	92	110	113	4	10.5	2	1.64 3.61	0.83	0.7	0.4	
32311A		67	65	103	110	111	4	10.5	2	2.50 5.51	0.35	1.7	1	
32012AX	60	66	67	85	88	91	4	5.5	1	0.632 1.392	0.43	1.4	0.8	
30212A		69	69	95	101	105.5	4	4.5	1.5	0.967 2.129	0.41	1.5	0.8	
32212A		69	69	95	101	104	4	5.5	1.5	1.27 2.80	0.41	1.5	0.8	
30312A		73	72	112	118	120	4	7.5	2	2.09 4.60	0.35	1.7	1	
31312A		72	72	103	118	123	4	11.5	2	2.03 4.47	0.83	0.7	0.4	
32312A		73	72	112	118	120	4	11.5	2	3.07 6.76	0.35	1.7	1	
32312BA		73	72	99	118	122	6	11.5	2	3.16 6.96	0.54	1.1	0.6	
32013AX	65	71	72	90	93	97	4	5.5	1	0.675 1.486	0.46	1.3	0.7	
30213A		75	74	105	111	113	4	4.5	1.5	1.23 2.71	0.41	1.5	0.8	
32213A		75	74	105	111	115	4	5.5	1.5	1.66 3.66	0.41	1.5	0.8	
30313A		80	77	121	128	130	4	8	2	2.55 5.62	0.35	1.7	1	
31313A		78	77	109	128	132	4	13	2	2.45 5.39	0.83	0.7	0.4	
32313A		80	77	121	128	130	4	12	2	3.77 8.30	0.35	1.7	1	

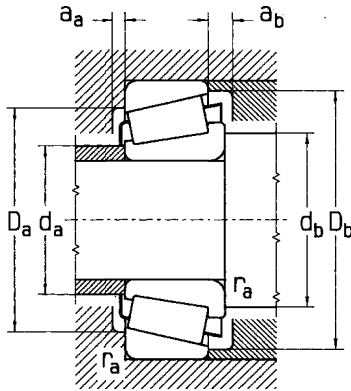
Bearing designations printed in bold face type are currently in our manufacturing schedule. Those shown in normal face type are made to order.

Single Row Tapered Roller Bearings

Sizes 70 mm – 90 mm



Dimensions									Basic Load Rating		Limiting Speed for Lubricating by	
d	D	B	C	T	r _{1s} min	r _{2s} min	r _{3s} min	a	Dynamic C _r	Static C _{0r}	Grease	Oil
mm									kN		min ⁻¹	
									lbf			
70	110	25	19	25	1.5	1.5	0.6	24	108 24,200	147 32,900	4,000	5,300
	125	24	21	26.25	2	1.5	0.6	26	133 29,500	153 34,100	3,500	4,700
	125	31	27	33.25	2	1.5	0.6	29	171 38,400	203 45,500	3,500	4,700
	150	35	30	38	3	2.5	1	30	233 52,300	251 56,200	3,000	4,000
	150	35	25	38	3	2.5	1	47	196 44,000	211 47,300	2,800	3,800
	150	51	42	54	3	2.5	1	36	322 72,300	398 89,100	2,800	3,800
75	115	25	19	25	1.5	1.5	0.6	25	114 25,600	158 35,500	3,000	5,000
	130	25	22	27.25	2	1.5	0.6	28	141 31,600	165 36,900	3,300	4,500
	130	31	27	33.25	2	1.5	0.6	30	178 40,000	220 49,200	3,300	4,500
	130	41	31	41	2	1.5	0.6	32	215 48,300	299 66,800	3,200	4,500
	160	37	31	40	3	2.5	1	32	266 59,700	287 64,300	2,800	3,800
	160	55	45	58	3	2.5	1	38	376 84,500	464 104,000	2,700	3,500
	160	55	45	58	3	2.5	1	47	322 72,200	464 104,000	2,400	3,200
80	125	29	22	29	1.5	1.5	0.6	27	144 32,300	207 46,400	3,300	4,500
	140	26	22	28.25	2.5	2	0.6	29	158 35,500	178 39,800	3,200	4,200
	140	33	28	35.25	2.5	2	0.6	32	200 44,900	251 56,200	3,200	4,200
85	130	29	22	29	1.5	1.5	0.6	28	150 33,700	215 48,200	3,200	4,200
	150	36	30	38.5	2.5	2	0.6	34	237 53,100	293 65,600	3,000	4,000
90	140	32	24	32	2	1.5	0.6	30	165 37,000	228 51,100	3,000	4,000
	160	30	26	32.5	2.5	2	0.6	31	203 45,600	242 54,100	2,800	3,800
	160	40	34	42.5	2.5	2	0.6	37	276 62,000	355 79,400	2,800	3,800

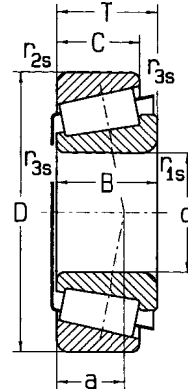


Bearing Designation	Abutment and Fillet Dimensions									Weight ~	Factors		
	d	d _a max	d _b min	D _a min	D _a max	D _b min	a _a min	a _b min	r _a max		e	Y	Y ₀
	mm									kg lbs			
32014AX	70	76	77	98	103	105	5	6	1	0.893 1.966	0.44	1.4	0.8
30214A	80	79	108	116	118	118	4	5	1.5	1.37 3.02	0.42	1.4	0.8
32214A	80	79	108	116	119	119	4	6	1.5	1.73 3.81	0.42	1.4	0.8
30314A	85	82	129	138	140	140	4	8	2	3.07 6.76	0.35	1.7	1
31314A	83	82	118	138	141	141	4	13	2	3.01 6.63	0.83	0.7	0.4
32314A	85	82	129	138	140	140	4	12	2	4.55 10.02	0.35	1.7	1
32015AX	75	82	82	103	108	110	5	6	1	0.955 2.103	0.46	1.3	0.7
30215A	85	84	113	121	124	124	4	5	1.5	1.47 3.24	0.44	1.4	0.8
32215A	85	84	113	121	120	120	4	6	1.5	1.82 4.01	0.44	1.4	0.8
33215A	85	84	111	121	125	125	6	10	1.5	2.30 5.06	0.43	1.4	0.8
30315A	91	87	138	148	149	149	4	9	2	3.72 5.06	0.35	1.7	1
32315A	91	87	138	148	149	149	4	13	2	5.62 12.36	0.35	1.7	1
32315BA	90	87	128	148	150	150	7	12.5	2	5.60 12.32	0.54	1.1	0.6
32016AX	80	87	87	112	118	120	6	7	1	1.32 2.90	0.42	1.4	0.8
30216A	90	90	122	130	132	132	4	6	2	1.75 3.85	0.42	1.4	0.8
32216A	90	90	122	130	134	134	4	7	2	2.29 5.04	0.42	1.4	0.8
32017AX	85	92	92	117	123	125	6	7	1	1.41 3.10	0.44	1.4	0.7
32217A	96	95	130	140	142	142	5	8.5	2	2.85 6.28	0.42	1.4	0.8
32018AX	90	99	99	124	131	134	6	8	1.5	1.78 3.92	0.42	1.4	0.8
30218A	102	100	138	150	150	150	5	6	2	2.71 5.97	0.42	1.4	0.8
32218A	102	100	138	150	152	152	5	8.5	2	3.60 7.93	0.42	1.4	0.8

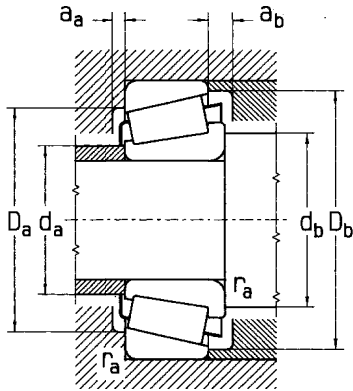
Bearing designations printed in bold face type are currently in our manufacturing schedule. Those shown in normal face type are made to order.

Single Row Tapered Roller Bearings

Sizes 95 mm – 140 mm



Dimensions										Basic Load Rating		Limiting Speed for Lubricating by	
d	D	B	C	T	r _{1s} min	r _{2s} min	r _{3s} min	a	Dynamic C _r	Static C _{or}	Grease	Oil	
mm										kN		min ⁻¹	
										lbf			
95	170	32	27	34.5	3	2.5	1	33	237	276	2,700	3,500	
	170	43	37	45.5	3	2.5	1	38	53,100 316 70,800	61,900 406 90,900	2,700	3,500	
100	150	32	24	32	2	1.5	0.6	33	178	261	2,800	3,800	
	180	34	29	37	3	2.5	1	36	39,800 266 59,600	58,400 316 70,800	2,500	3,300	
	180	46	39	49	3	2.5	1	41	355 79,400	464 104,000	2,500	3,300	
105	190	36	30	39	3	2.5	1	37	293	355	2,400	3,200	
	190	50	43	53	3	2.5	1	44	65,600 398 89,100	79,400 541 121,000	2,400	3,200	
110	170	38	29	38	2.5	2	0.6	37	246	355	2,500	3,300	
	200	53	46	56	3	2.5	1	46	55,200 447 100,000	79,400 596 133,500	2,200	3,000	
120	180	38	29	38	2.5	2	0.6	39	261	391	2,400	3,200	
									58,400	87,500			
130	200	45	34	45	2.5	2	0.6	43	335	501	2,100	2,800	
									75,000	112,000			
140	210	45	34	45	2.5	2	0.6	46	335	521	1,700	2,200	
									75,000	117,000			



Bearing Designation	Abutment and Fillet Dimensions									Weight	Factors			
	d	d _a max	d _b min	D _a min	D _a max	D _b min	a _a min	a _b min	r _a max		~	e	Y	Y ₀
	mm									kg lbs				
30219A	95	107	110	148	158	159	5	7	2	3.16 6.96	0.42	1.4	0.8	
32219A		107	110	148	158	161	5	10	2	4.32 9.51	0.42	1.4	0.8	
32020AX	100	109	109	134	141	144	6	8	1.5	1.94 4.27	0.46	1.3	0.7	
30220A		114	112	155	168	168	5	8	2	3.81 8.39	0.42	1.4	0.8	
32220A		114	112	155	168	171	5	10	2	5.21 11.47	0.42	1.4	0.8	
30221A	105	120	117	163	178	178	8	9	2	4.49 9.89	0.42	1.4	0.8	
32221A		120	117	163	178	178	5	10	2	6.38 14.05	0.42	1.4	0.8	
32022AX	110	120	120	152	160	163	7	9	2	3.09 6.80	0.43	1.4	0.8	
32222A		125	122	171	188	190	6	10	2	7.43 16.36	0.44	1.4	0.8	
32024AX	120	130	130	162	170	173	7	9	2	3.32 7.30	0.46	1.3	0.7	
32026AX	130	140	140	178	190	192	8	11	2	5.05 11.12	0.44	1.4	0.8	
32028AX	140	150	150	186	200	202	8	11	2	5.37 11.82	0.46	1.3	0.7	

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