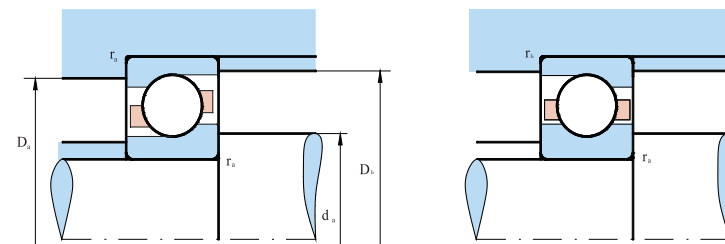
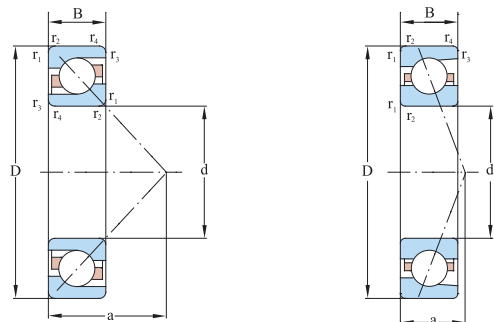




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Angular contact ball bearings



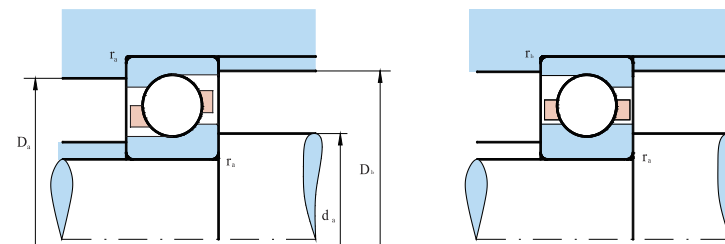
Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
7000C	10	26	8	0.3	0.15	5.00	2.21	56000	75000	6.0
7000AC		26	8	0.3	0.15	4.72	2.14	50000	67000	8.0
7200C		30	9	0.6	0.15	5.49	2.64	48000	63000	7.0
7200AC		30	9	0.6	0.15	5.23	2.54	43000	56000	9.0
7200BTN		30	9	0.6	0.30	7.02	3.35	19000	28000	13.0
7300C		35	11	0.6	0.30	8.95	5.25	42000	56000	8.5
7300AC		35	11	0.6	0.30	8.56	4.93	39000	52000	11.0
7300BTN		35	11	0.6	0.30	7.83	4.40	18000	24000	15.0
7001C	12	28	8	0.3	0.15	5.49	2.64	48000	63000	7.0
7001AC		28	8	0.3	0.15	5.23	2.54	45000	60000	9.0
7201C		32	10	0.6	0.30	7.28	3.42	45000	60000	8.0
7201AC		32	10	0.6	0.30	7.02	3.31	40000	53000	10.0
7201BTN		32	10	0.6	0.30	7.61	3.80	17000	24000	14.0
7301C		37	12	1.0	0.60	11.30	6.58	38000	51000	9.0
7301AC		37	12	1.0	0.60	10.80	6.17	36000	48000	12.0
7301BTN		37	12	1.0	0.60	10.60	5.00	17000	22000	16.0
7002C	15	32	9	0.3	0.15	6.25	3.39	43000	56000	8.0
7002AC		32	9	0.3	0.15	5.99	3.24	38000	50000	10.0
7202C		35	11	0.6	0.15	8.03	4.11	38000	50000	9.0
7202AC		35	11	0.6	0.15	7.77	4.03	34000	45000	12.0
7202BTN		35	11	0.6	0.15	7.93	4.29	16000	22000	16.0
7302C		42	13	1.0	0.60	13.90	7.34	33000	44000	10.0
7302AC		42	13	1.0	0.60	13.30	6.89	31000	41000	13.0
7302BTN		42	13	1.0	0.60	13.00	6.70	14000	19000	18.5
7003C	17	35	10	0.3	0.15	7.27	4.00	38000	50000	9.0
7003AC		35	10	0.3	0.15	6.89	3.82	34000	45000	11.0
7203C		40	12	0.6	0.30	10.90	5.87	34000	45000	10.0
7203AC		40	12	0.6	0.30	10.50	5.64	30000	40000	13.0
7203BTN		40	12	0.6	0.30	9.93	6.10	14000	19000	18.0
7303C		47	14	1.0	0.60	15.70	8.30	29000	39000	11.0
7303AC		47	14	1.0	0.60	15.30	8.05	28000	37000	14.5
7303BTN		47	14	1.0	0.60	13.80	7.22	12000	17000	20.0

Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	8.12	4.42	44000	59000	12	24	24.4	0.3	0.15	0.0190
/DB	/DF	/DT	7.67	4.28	39000	53000	12	24	24.4	0.3	0.15	0.0190
/DB	/DF	/DT	8.92	5.28	38000	50000	15	25	28.0	0.6	0.15	0.0310
/DB	/DF	/DT	8.50	5.08	34000	44000	15	25	28.0	0.6	0.15	0.0310
/DB	/DF	/DT	11.40	6.70	15000	22000	15	25		0.6		0.0330
/DB	/DF	/DT	14.50	10.50	33000	44000	15	30	32.5	0.6	0.30	0.0490
/DB	/DF	/DT	13.90	9.86	31000	41000	15	30	32.5	0.6	0.30	0.0490
/DB	/DF	/DT	12.70	8.80	14000	19000	15	30		0.6		0.0520
/DB	/DF	/DT	8.91	5.28	38000	50000	14	26	26.4	0.3	0.15	0.0200
/DB	/DF	/DT	8.50	5.08	35000	47000	14	26	26.4	0.3	0.15	0.0200
/DB	/DF	/DT	11.80	6.84	35000	47000	17	27	30.0	0.6	0.30	0.0350
/DB	/DF	/DT	11.40	6.62	32000	42000	17	27	30.0	0.6	0.30	0.0350
/DB	/DF	/DT	12.40	7.60	13000	19000	17	27		0.6		0.0390
/DB	/DF	/DT	18.40	13.20	30000	40000	18	31	32.0	1.0	0.60	0.0680
/DB	/DF	/DT	17.50	12.30	28000	38000	18	31	32.0	1.0	0.60	0.0680
/DB	/DF	/DT	17.20	10.00	13000	17000	18	31		1.0		0.0730
/DB	/DF	/DT	10.20	6.78	34000	44000	17	30	30.4	0.3	0.15	0.0300
/DB	/DF	/DT	9.73	6.48	30000	39000	17	30	30.4	0.3	0.15	0.0300
/DB	/DF	/DT	13.00	8.22	30000	39000	20	30	33.0	0.6	0.15	0.0430
/DB	/DF	/DT	12.60	8.06	27000	35000	20	30	33.0	0.6	0.15	0.0430
/DB	/DF	/DT	12.90	8.58	13000	17000	20	30		0.6		0.0430
/DB	/DF	/DT	22.00	14.70	26000	35000	21	36	37.0	1.0	0.60	0.0830
/DB	/DF	/DT	21.60	13.70	24000	32000	21	36	37.0	1.0	0.60	0.0830
/DB	/DF	/DT	21.10	13.40	11000	15000	21	36		1.0		0.0870
/DB	/DF	/DT	11.80	8.00	30000	39000	19	33	33.4	0.3	0.15	0.0380
/DB	/DF	/DT	11.20	7.64	27000	35000	19	33	33.4	0.3	0.15	0.0380
/DB	/DF	/DT	17.70	11.70	26000	34500	22	35	38.0	0.6	0.30	0.0640
/DB	/DF	/DT	17.10	11.30	24000	32000	22	35	38.0	0.6	0.30	0.0640
/DB	/DF	/DT	16.10	12.20	10000	15000	22	35		0.6		0.0590
/DB	/DF	/DT	25.50	16.60	23000	31000	23	41	42.0	1.0	0.60	0.1110
/DB	/DF	/DT	24.90	16.10	22000	29000	23	41	42.0	1.0	0.60	0.1110
/DB	/DF	/DT	22.40	14.40	9400	13000	23	41		1.0		0.1140



Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	17.10	12.00	25000	34000	25	37	39.5	0.6	0.30	0.0670
/DB	/DF	/DT	16.20	11.50	22000	29000	25	37	39.5	0.6	0.30	0.0670
/DB	/DF	/DT	23.90	16.40	22000	29000	26	41	42.0	1.0	0.30	0.1010
/DB	/DF	/DT	22.70	15.70	19000	27000	26	41	42.0	1.0	0.30	0.1010
/DB	/DF	/DT	21.60	15.30	9000	13000	26	41		1.0		0.1070
/DB	/DF	/DT	30.20	19.90	22000	29000	27	45	47.0	1.0	0.60	0.1430
/DB	/DF	/DT	29.10	19.20	19000	26000	27	45	47.0	1.0	0.60	0.1430
/DB	/DF	/DT	28.10	19.30	8500	12000	27	45		1.0		0.1480
/DB	/DF	/DT	19.00	14.90	20000	28000	30	42	44.5	0.6	0.30	0.0780
/DB	/DF	/DT	18.00	14.20	17000	25000	30	42	44.5	0.6	0.30	0.0780
/DB	/DF	/DT	27.00	20.60	18000	26000	31	46	47.0	1.0	0.50	0.1270
/DB	/DF	/DT	25.80	19.60	15000	23000	31	46	47.0	1.0	0.50	0.1270
/DB	/DF	/DT	24.00	18.80	8000	11000	31	46		1.0		0.1340
/DB	/DF	/DT	45.50	32.20	17000	22000	32	55	57.0	1.0	0.60	0.2270
/DB	/DF	/DT	43.90	31.20	15000	21000	32	55	57.0	1.0	0.60	0.2270
/DB	/DF	/DT	39.50	28.20	7500	10000	32	55		1.0		0.2360
/DB	/DF	/DT	24.70	20.60	15000	23000	36	49	50.0	1.0	0.30	0.1130
/DB	/DF	/DT	23.20	19.70	14000	22000	36	49	50.0	1.0	0.30	0.1130
/DB	/DF	/DT	37.40	29.60	14000	22000	36	56	57.0	1.0	0.50	0.1960
/DB	/DF	/DT	35.90	28.20	13000	19000	36	56	57.0	1.0	0.50	0.1960
/DB	/DF	/DT	33.30	27.00	7000	9500	36	56		1.0		0.2010
/DB	/DF	/DT	52.30	40.40	14000	19000	37	65	67.0	1.1	0.60	0.3490
/DB	/DF	/DT	50.20	38.80	13000	18000	37	65	67.0	1.1	0.60	0.3490
/DB	/DF	/DT	47.60	36.40	6300	8500	37	65		1.1		0.3530
/DB	/DF	/DT	31.00	27.40	13500	20000	41	56	57.0	1.0	0.30	0.1500
/DB	/DF	/DT	29.60	26.20	13000	19000	41	56	57.0	1.0	0.30	0.1500
/DB	/DF	/DT	49.20	40.20	12800	18000	42	65	67.0	1.1	0.60	0.2780
/DB	/DF	/DT	47.30	38.40	12600	17000	42	65	67.0	1.1	0.60	0.2780
/DB	/DF	/DT	44.20	36.80	6000	8000	42	65		1.1		0.3220
/DB	/DF	/DT	65.60	51.80	13000	17000	44	71	74.0	1.5	0.80	0.4490
/DB	/DF	/DT	63.20	49.80	12300	16500	44	71	74.0	1.5	0.80	0.4490
/DB	/DF	/DT	62.40	48.80	5600	7500	44	71		1.5		0.4700



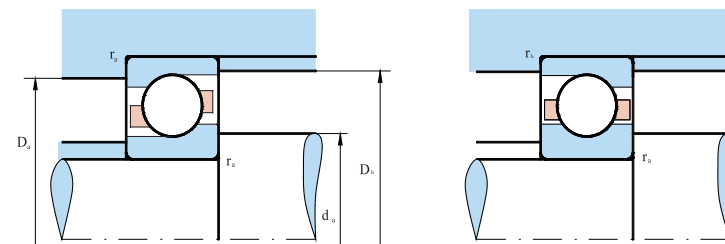
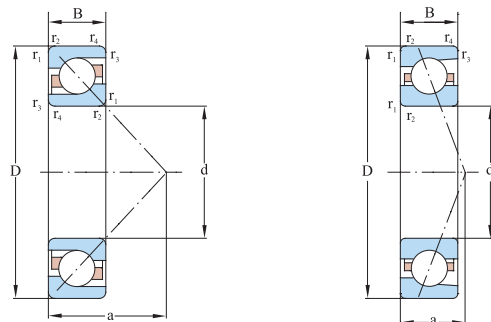


Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back	face-to-face	tandem	(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	32.20	30.00	13000	19000	46	68	69.0	1.0	0.30	0.1860
/DB	/DF	/DT	30.40	28.40	11800	15700	46	68	69.0	1.0	0.30	0.1860
/DB	/DF	/DT	52.00	45.00	12000	17000	47	73	75.0	1.1	0.60	0.3360
/DB	/DF	/DT	49.70	43.00	11000	15000	47	73	75.0	1.1	0.60	0.3360
/DB	/DF	/DT	56.00	47.80	5300	7000	47	73		1.1		0.3720
/DB	/DF	/DT	85.10	70.80	11000	15000	49	81	84.0	1.5	0.60	0.6410
/DB	/DF	/DT	81.70	68.00	10000	14000	49	81	84.0	1.5	0.60	0.6410
/DB	/DF	/DT	75.20	60.60	5000	6700	49	81		1.5		0.6430
/DB	/DF	/DT	39.50	38.60	12600	17000	51	69	70.0	1.0	0.30	0.2380
/DB	/DF	/DT	37.50	36.60	11000	15000	51	69	70.0	1.0	0.30	0.2380
/DB	/DF	/DT	59.00	51.60	11500	15500	52	78	80.0	1.0	0.60	0.4110
/DB	/DF	/DT	56.20	49.40	9400	13400	52	78	80.0	1.0	0.60	0.4110
/DB	/DF	/DT	58.50	52.60	5000	6700	52	78		1.0		0.4020
/DB	/DF	/DT	102.00	86.60	10000	13400	54	91	94.0	1.5	0.60	0.8570
/DB	/DF	/DT	98.00	84.20	9400	12600	54	91	94.0	1.5	0.60	0.8570
/DB	/DF	/DT	89.30	73.40	4500	6000	54	91		1.5		0.8820
/DB	/DF	/DT	40.60	41.40	12000	16000	56	74	75.0	1.0	0.30	0.2550
/DB	/DF	/DT	38.50	39.40	9500	14000	56	74	75.0	1.0	0.30	0.2550
/DB	/DF	/DT	68.90	63.40	10000	14000	57	83	85.0	1.0	0.60	0.4000
/DB	/DF	/DT	66.30	60.60	8700	13000	57	83	85.0	1.0	0.60	0.4600
/DB	/DF	/DT	60.80	56.40	4500	6000	57	83		1.0		0.4750
/DB	/DF	/DT	120.00	104.00	9200	12200	60	100	104.0	2.0	1.00	1.1100
/DB	/DF	/DT	115.00	100.00	8700	11500	60	100	104.0	2.0	1.00	1.1100
/DB	/DF	/DT	111.00	95.80	4000	5300	60	100		2.0		1.1400
/DB	/DF	/DT	52.10	53.60	10000	14200	62	83	85.0	1.0	0.60	0.3810
/DB	/DF	/DT	49.20	51.40	8700	12600	62	83	85.0	1.0	0.60	0.3810
/DB	/DF	/DT	85.90	79.80	8700	12600	64	91	94.0	1.5	0.60	0.6070
/DB	/DF	/DT	82.20	76.40	7500	11000	64	91	94.0	1.5	0.60	0.6070
/DB	/DF	/DT	75.20	72.20	4300	5600	64	91		1.5		0.6300
/DB	/DF	/DT	149.00	132.00	8600	11000	65	110	114.0	2.0	1.00	1.4000
/DB	/DF	/DT	148.00	127.00	7900	10500	65	110	114.0	2.0	1.00	1.4000
/DB	/DF	/DT	128.00	113.00	3600	4800	65	110		2.0		1.4400



Harbin Bearing
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Angular contact ball bearings

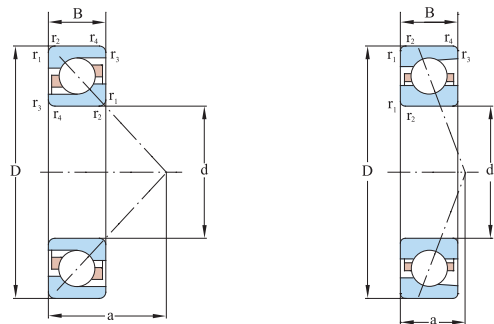


Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
7012C	60	95	18	1.1	0.60	36.30	31.00	11000	16000	20.0
7012AC		95	18	1.1	0.60	34.70	29.50	9500	14000	27.0
7212C		110	22	1.5	0.60	58.20	45.10	10000	15000	23.0
7212AC		110	22	1.5	0.60	55.80	42.90	9000	13000	31.0
7212BTN		110	22	1.5	0.60	50.00	44.40	4800	6300	46.5
7312C		130	31	2.1	1.10	105.0	76.30	9700	13000	28.0
7312AC		130	31	2.1	1.10	101.0	73.40	9300	12400	37.5
7312BTN		130	31	2.1	1.10	90.00	65.50	4300	5600	55.0
7013C	65	100	18	1.1	0.60	40.00	35.40	10000	15000	20.0
7013AC		100	18	1.1	0.60	38.00	33.70	9500	14000	28.0
7213C		120	23	1.5	0.60	60.70	49.40	9500	14000	24.0
7213AC		120	23	1.5	0.60	57.50	47.10	8600	12000	33.0
7213BTN		120	23	1.5	0.60	63.70	52.60	4300	5600	50.0
7313C		140	33	2.1	1.10	119.0	87.90	9000	12000	32.0
7313AC		140	33	2.1	1.10	114.0	73.60	8400	11500	40.5
7313BTN		140	33	2.1	1.10	102.0	75.40	4000	5300	59.5
7014C	70	110	20	1.1	0.60	49.90	43.20	9500	14000	22.0
7014AC		110	20	1.1	0.60	45.80	41.10	8500	12000	31.0
7214C		125	24	1.5	0.60	66.60	54.70	9000	13000	25.0
7214AC		125	24	1.5	0.60	63.40	52.20	8000	11000	35.0
7214BTN		125	24	1.5	0.60	65.80	54.60	4300	5600	53.0
7314C		150	35	2.1	1.10	133.00	100.00	8200	11400	32.0
7314AC		150	35	2.1	1.10	128.00	96.30	7800	10700	43.0
7314BTN		150	35	2.1	1.10	114.00	85.90	3600	4800	64.0
7015C	75	115	20	1.1	0.60	49.50	46.10	9000	13000	23.0
7015AC		115	20	1.1	0.60	46.80	43.80	8500	12000	32.0
7215C		130	25	1.5	1.00	72.70	60.30	8500	12000	26.0
7215AC		130	25	1.5	1.00	69.00	57.60	8000	11000	37.0
7215BTN		130	25	1.5	1.00	68.50	58.20	4000	5300	55.5
7315C		160	37	2.1	1.10	146.00	114.00	7900	10600	34.0
7315AC		160	37	2.1	1.10	139.00	100.00	7500	10000	46.0
7315BTN		160	37	2.1	1.10	128.00	97.20	3400	4500	68.0

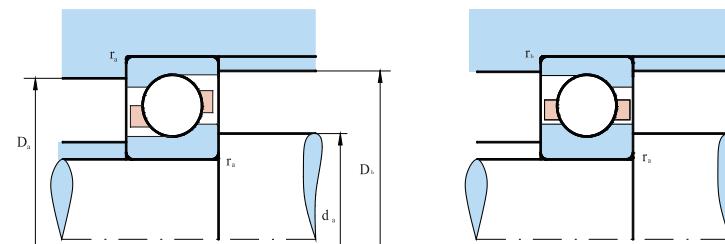
Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	59.00	62.00	8700	13000	67	88	90.0	1.0	0.60	0.4000
/DB	/DF	/DT	56.40	59.00	7400	11000	67	88	90.0	1.0	0.60	0.4000
/DB	/DF	/DT	94.50	90.20	7900	11800	69	101	104.0	1.5	0.60	0.7920
/DB	/DF	/DT	90.60	85.80	7100	10000	69	101	104.0	1.5	0.60	0.7920
/DB	/DF	/DT	81.20	88.80	3800	5000	69	101		1.5		0.7790
/DB	/DF	/DT	171.00	153.00	7600	10000	72	118	123.0	2.0	1.00	1.7500
/DB	/DF	/DT	164.00	147.00	7300	9800	72	118	123.0	2.0	1.00	1.7500
/DB	/DF	/DT	146.00	131.00	3400	4500	65	110		2.0		1.8000
/DB	/DF	/DT	65.00	70.80	7900	11800	72	93	96.0	1.0	0.50	0.4250
/DB	/DF	/DT	61.70	67.40	7500	11000	72	93	96.0	1.0	0.50	0.4250
/DB	/DF	/DT	98.60	98.80	7500	11000	74	111	115.0	1.5	0.60	1.0200
/DB	/DF	/DT	93.40	94.20	6800	9500	74	111	115.0	1.5	0.60	1.0200
/DB	/DF	/DT	103.00	105.00	3400	4500	74	111		1.5		1.0400
/DB	/DF	/DT	193.00	176.00	7100	9400	77	128	133.0	2.0	1.00	2.1600
/DB	/DF	/DT	185.00	147.00	6600	9100	77	128	133.0	2.0	1.00	2.1600
/DB	/DF	/DT	166.00	151.00	3200	4300	77	128		2.0		2.2100
/DB	/DF	/DT	81.10	86.40	7500	11000	77	103	105.0	1.0	0.60	0.5950
/DB	/DF	/DT	74.40	82.20	6700	9400	77	103	105.0	1.0	0.60	0.5950
/DB	/DF	/DT	108.00	109.00	7100	10000	79	116	119.0	1.5	0.60	1.1000
/DB	/DF	/DT	103.00	104.00	6400	8700	79	116	119.0	1.5	0.60	1.1000
/DB	/DF	/DT	107.00	109.00	3200	4300	79	116		1.5		1.1400
/DB	/DF	/DT	216.00	200.00	6400	8800	82	138	143.0	2.0	1.00	2.6300
/DB	/DF	/DT	208.00	193.00	6100	8400	82	138	143.0	2.0	1.00	2.6300
/DB	/DF	/DT	185.00	172.00	2800	3800	80	138		2.0		2.7000
/DB	/DF	/DT	80.40	92.20	7000	10000	82	108	110.0	1.0	0.60	0.6280
/DB	/DF	/DT	76.00	87.60	6700	9400	82	108	110.0	1.0	0.60	0.6280
/DB	/DF	/DT	118.00	121.00	6500	9200	84	121	124.0	1.5	0.80	1.1800
/DB	/DF	/DT	112.00	115.00	6300	8600	84	121	124.0	1.5	0.80	1.1800
/DB	/DF	/DT	111.00	116.00	3200	4300	84	121		1.5		1.2100
/DB	/DF	/DT	237.00	228.00	6200	8300	87	148	153.0	2.0	1.00	3.1700
/DB	/DF	/DT	226.00	200.00	5900	7800	87	148	153.0	2.0	1.00	3.1700
/DB	/DF	/DT	208.00	194.00	2600	3600	87	148		2.0		3.2200



Angular contact ball bearings



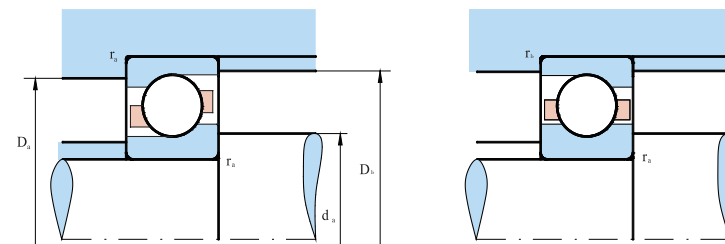
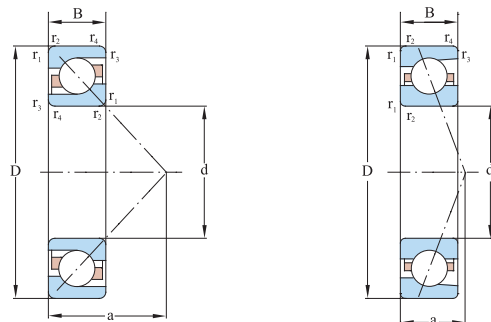
Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
7016C	80	125	22	1.1	1.10	52.10	49.50	8500	12000	25.0
7016AC		125	22	1.1	1.10	50.30	46.90	8000	11000	35.0
7216C		140	26	2.0	1.00	89.60	76.90	8000	11000	28.0
7216AC		140	26	2.0	1.00	85.00	73.60	7500	10000	39.0
7216BTN		140	26	2.0	1.00	77.00	68.10	3600	4800	59.0
7316C		170	39	2.1	1.10	157.00	128.00	7500	10000	36.0
7316AC		170	39	2.1	1.10	152.00	122.00	7000	9400	48.5
7316BTN		170	39	2.1	1.10	142.00	109.00	3200	4300	71.0
7017C	85	130	22	1.1	0.60	58.10	55.80	8500	12000	26.0
7017AC		130	22	1.1	0.60	55.10	52.90	7500	11000	36.0
7217C		150	28	2.0	1.00	92.60	78.80	8000	11000	30.0
7217AC		150	28	2.0	1.00	88.00	75.30	7000	9500	42.0
7217BTN		150	28	2.0	1.00	82.00	73.60	3400	4500	63.0
7317C		180	41	3.0	1.10	170.00	142.00	7000	9400	38.0
7317AC		180	41	3.0	1.10	164.00	137.00	6700	8900	51.5
7317BTN		180	41	3.0	1.10	146.00	122.00	3000	4000	76.0
7018C	90	140	24	1.5	1.00	64.50	62.70	8000	11000	28.0
7018AC		140	24	1.5	1.00	60.80	59.40	7000	9500	39.0
7218C		160	30	2.0	1.00	117.00	97.90	7500	10000	32.0
7218AC		160	30	2.0	1.00	112.00	95.10	6700	9000	44.0
7218BTN		160	30	2.0	1.00	102.00	87.90	3200	4300	67.0
7318C		190	43	3.0	1.10	183.00	158.00	6700	8900	40.0
7318AC		190	43	3.0	1.10	176.00	152.00	6300	8400	54.0
7318BTN		190	43	3.0	1.10	156.00	135.00	2800	3800	80.0
7019C	95	145	24	1.5	1.00	71.10	69.50	7500	10000	28.0
7019AC		145	24	1.5	1.00	67.20	66.00	6700	9000	40.0
7219C		170	32	2.1	1.10	133.00	116.00	7000	9500	34.0
7219AC		170	32	2.1	1.10	127.00	107.00	6300	8500	47.0
7219BTN		170	32	2.1	1.10	124.00	108.00	3000	4000	71.5
7319C		200	45	3.0	1.10	255.00	174.00	6400	8500	42.0
7319AC		200	45	3.0	1.10	244.00	167.00	6000	8000	57.0
7319BTN		200	45	3.0	1.10	178.00	163.00	2600	3600	84.0



Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	84.60	99.00	6600	9300	87	118	120.0	1.0	0.60	0.8550
/DB	/DF	/DT	81.70	93.80	6300	8600	87	118	120.0	1.0	0.60	0.8550
/DB	/DF	/DT	146.00	154.00	6200	8400	90	130	134.0	2.0	1.00	1.4600
/DB	/DF	/DT	138.00	147.00	5900	7800	90	130	134.0	2.0	1.00	1.4600
/DB	/DF	/DT	125.00	136.00	2800	3800	90	130		2.0		1.5000
/DB	/DF	/DT	255.00	256.00	5800	7700	92	158	163.0	2.0	1.00	3.7400
/DB	/DF	/DT	247.00	244.00	5500	7400	92	158	163.0	2.0	1.00	3.7400
/DB	/DF	/DT	231.00	218.00	2400	3400	92	158		2.0		3.8100
/DB	/DF	/DT	94.40	112.00	6500	9200	92	123	125.0	1.0	0.60	0.8860
/DB	/DF	/DT	89.60	106.00	5800	8600	92	123	125.0	1.0	0.60	0.8860
/DB	/DF	/DT	150.00	158.00	6300	8600	95	140	144.0	2.0	1.00	1.8200
/DB	/DF	/DT	143.00	151.00	5500	7400	95	140	144.0	2.0	1.00	1.8200
/DB	/DF	/DT	135.00	147.00	2600	3800	95	140		2.0		1.8700
/DB	/DF	/DT	276.00	284.00	5400	7400	99	166	173.0	2.5	1.00	4.4000
/DB	/DF	/DT	266.00	274.00	5200	7000	99	166	173.0	2.5	1.00	4.4000
/DB	/DF	/DT	237.00	244.00	2200	3200	99	166		2.5		4.4600
/DB	/DF	/DT	105.00	125.00	6300	8600	99	131	134.0	1.5	0.80	1.1700
/DB	/DF	/DT	98.80	119.00	5500	7400	99	131	134.0	1.5	0.80	1.1700
/DB	/DF	/DT	190.00	195.00	5800	8500	100	150	154.0	2.0	1.00	2.2000
/DB	/DF	/DT	182.00	190.00	5200	7100	100	150	154.0	2.0	1.00	2.2000
/DB	/DF	/DT	166.00	176.00	2400	3400	100	150		2.0		2.2500
/DB	/DF	/DT	297.00	316.00	5200	7000	104	176	183.0	2.5	1.00	5.1400
/DB	/DF	/DT	286.00	304.00	4900	6600	104	176	183.0	2.5	1.00	5.1400
/DB	/DF	/DT	253.00	270.00	2000	3000	104	176		2.5		5.2200
/DB	/DF	/DT	116.00	139.00	5900	7800	104	136	139.0	1.5	0.80	1.2000
/DB	/DF	/DT	109.00	132.00	5200	7100	104	136	139.0	1.5	0.80	1.2100
/DB	/DF	/DT	216.00	232.00	5500	7400	107	158	163.0	2.0	1.00	2.6600
/DB	/DF	/DT	206.00	214.00	4900	6600	107	158	163.0	2.0	1.00	2.6600
/DB	/DF	/DT	201.00	216.00	2200	3200	107	158		2.0		2.6700
/DB	/DF	/DT	414.00	348.00	5000	6700	109	186	193.0	2.5	1.00	5.9400
/DB	/DF	/DT	396.00	334.00	4700	6300	109	186	193.0	2.5	1.00	5.9400
/DB	/DF	/DT	289.00	326.00	1900	2800	109	186		2.5		6.0000



Angular contact ball bearings



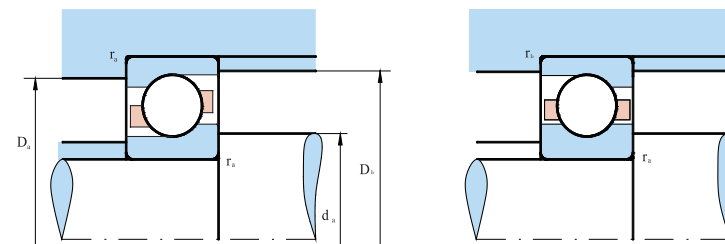
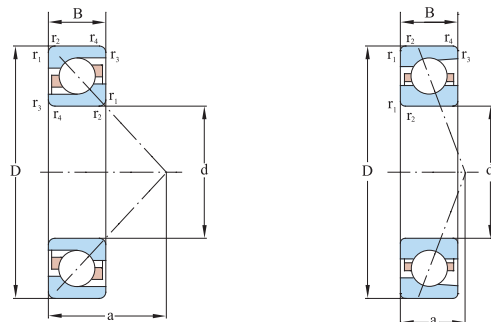
Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
7020C	100	150	24	1.5	1.00	78.10	77.00	7500	10000	29.0
7020AC		150	24	1.5	1.00	73.80	73.10	6700	9000	41.0
7220C		180	34	2.1	1.10	150.00	127.00	6700	9000	36.0
7220AC		180	34	2.1	1.10	139.00	121.00	6000	8000	50.0
7220BTN		180	34	2.1	1.10	130.00	144.00	2800	3800	76.0
7320C		215	47	3.0	1.10	222.00	207.00	5900	7900	44.5
7320AC		215	47	3.0	1.10	213.00	199.00	5600	7500	60.0
7320BTN	105	215	47	3.0	1.10	203.00	190.00	2400	3400	89.5
7021C		160	26	2.0	1.00	85.20	87.70	7000	9500	31.0
7021AC		160	26	2.0	1.00	80.00	80.70	6300	8500	44.0
7221C		190	36	2.1	1.10	163.00	143.00	6300	8500	38.0
7221AC		190	36	2.1	1.10	155.00	137.00	5600	7500	53.0
7221BTN		190	36	2.1	1.10	148.00	137.00	2600	3600	80.0
7321C		225	49	3.0	1.10	239.00	235.00	5600	7500	46.6
7321AC	110	225	49	3.0	1.10	229.00	220.00	5400	7200	63.0
7321BTN		225	49	3.0	1.10	212.00	208.00	2200	3200	93.5
7022C		170	28	2.0	1.00	92.60	93.70	6700	9000	33.0
7022AC		170	28	2.0	1.00	87.40	88.70	6000	8000	47.0
7222C		200	38	2.1	1.10	176.00	160.00	6000	8000	40.0
7222AC		200	38	2.1	1.10	168.00	153.00	5300	7000	55.0
7222BTN		200	38	2.1	1.10	163.00	153.00	2400	3400	84.0
7322C	120	240	50	3.0	1.10	263.00	262.00	5300	7100	48.5
7322AC		240	50	3.0	1.10	254.00	252.00	5000	6700	66.0
7322BTN		240	50	3.0	1.10	225.00	224.00	2000	3000	99.0
7024C		180	28	2.0	1.00	106.00	111.00	6300	8500	34.0
7024AC		180	28	2.0	1.00	102.00	105.00	5600	7500	49.0
7224C		215	40	2.1	1.10	190.00	179.00	5600	7500	43.0
7224AC		215	40	2.1	1.10	181.00	169.00	4800	6300	60.0
7324C	130	260	55	3.0	1.10	283.00	280.00	5000	6500	78.0
7324AC		260	55	3.0	1.10	270.00	263.00	4600	6000	116.0
7026C		200	33	2.0	1.00	130.00	116.00	5600	7500	39.0
7026AC		200	33	2.0	1.00	124.00	110.00	5000	6700	55.0

Designations(in pair)			Basic load ratings		Limiting speeds			Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)			d _a min	D _a max	D _b max	r _a max	r _b max	
DB	DF	DT	Cr	Cor	Grease	Oil	mm						
			kN		r/min								kg
/DB	/DF	/DT	127.00	154.00	5900	7800	109	141	144.0	1.5	0.80		1.2300
/DB	/DF	/DT	120.00	146.00	5200	7000	109	141	144.0	1.5	0.80		1.2300
/DB	/DF	/DT	244.00	254.00	5200	7000	112	168	173.0	2.0	1.00		3.2100
/DB	/DF	/DT	226.00	242.00	4700	6300	112	168	173.0	2.0	1.00		3.2100
/DB	/DF	/DT	211.00	288.00	2000	3000	112	168		2.0			3.2900
/DB	/DF	/DT	361.00	414.00	4600	6200	114	201	208.0	2.5	1.00		7.4000
/DB	/DF	/DT	346.00	398.00	4400	5900	114	201	208.0	2.5	1.00		7.4000
/DB	/DF	/DT	330.00	380.00	1800	2600	114	201		2.5			7.3200
/DB	/DF	/DT	138.00	165.00	5500	7400	115	150	154.0	2.0	1.00		1.5700
/DB	/DF	/DT	130.00	161.00	4900	6700	115	150	154.0	2.0	1.00		1.5700
/DB	/DF	/DT	265.00	286.00	4900	6700	117	178	183.0	2.0	1.00		3.8200
/DB	/DF	/DT	252.00	274.00	4400	5900	117	178	183.0	2.0	1.00		3.8200
/DB	/DF	/DT	240.00	274.00	2000	2800	117	178		2.0			3.8700
/DB	/DF	/DT	388.00	470.00	4400	5900	119	211	218.0	2.5	1.00		8.2000
/DB	/DF	/DT	372.00	440.00	4200	5600	119	211	218.0	2.5	1.00		8.2000
/DB	/DF	/DT	344.00	416.00	1700	2500	119	211		2.5			8.3600
/DB	/DF	/DT	150.00	187.00	5200	7000	120	160	164.0	2.0	1.00		1.9800
/DB	/DF	/DT	142.00	177.00	4700	6300	120	160	164.0	2.0	1.00		1.9800
/DB	/DF	/DT	286.00	320.00	4600	6200	122	188	193.0	2.0	1.00		4.4900
/DB	/DF	/DT	273.00	306.00	4100	5500	122	188	193.0	2.0	1.00		4.4900
/DB	/DF	/DT	265.00	306.00	1800	2600	122	188		2.0			4.5400
/DB	/DF	/DT	427.00	524.00	4100	5500	124	226	233.0	2.5	1.00		10.0000
/DB	/DF	/DT	413.00	504.00	3900	5200	124	226	233.0	2.5	1.00		10.0000
/DB	/DF	/DT	366.00	448.00	1600	2300	124	226		2.5			9.8000
/DB	/DF	/DT	172.00	222.00	4900	6700	130	170	174.0	2.0	1.00		2.0700
/DB	/DF	/DT	166.00	210.00	4400	5900	130	170	174.0	2.0	1.00		2.0700
/DB	/DF	/DT	309.00	358.00	4300	5800	132	203	208.0	2.0	1.00		5.3800
/DB	/DF	/DT	294.00	338.00	3700	4900	132	203	208.0	2.0	1.00		5.3800
/DB	/DF	/DT	460.00	560.00	3800	5000	134	246	253.0	2.5	1.00		11.8000
/DB	/DF	/DT	439.00	526.00	3600	4600	134	246	253.0	2.5	1.00		11.8000
/DB	/DF	/DT	211.00	232.00	4300	5800	140	190	194.0	2.0	1.00		3.2000
/DB	/DF	/DT	201.00	220.00	3900	5200	140	190	194.0	2.0	1.00		3.2000



Harbin Bearing
Group Corporation

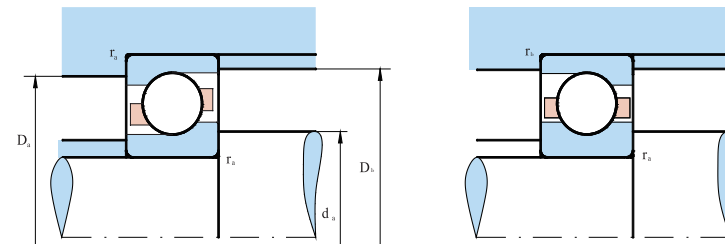
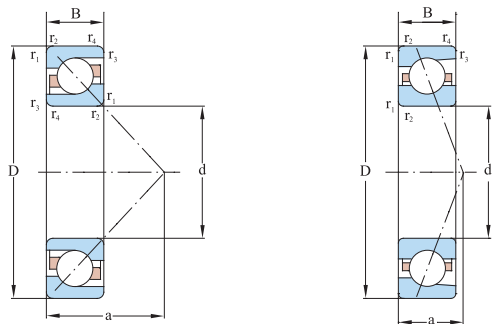
Angular contact ball bearings



Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
7226C	130	230	40	3.0	1.10	212.00	190.00	5000	6700	44.0
7226AC		230	40	3.0	1.10	203.00	176.00	4500	6000	63.0
7326C		280	58	4.0	1.50	307.00	289.00	4700	6200	84.0
7326AC		280	58	4.0	1.50	293.00	271.00	4300	5700	125.0
7028C	140	210	33	2.0	1.00	133.00	120.00	5300	7000	40.0
7028AC		210	33	2.0	1.00	125.00	114.00	4800	6300	58.0
7228C		250	42	3.0	1.10	237.00	201.00	4700	6100	73.0
7228AC		250	42	3.0	1.10	226.00	188.00	4200	5600	112.0
7030C	150	225	35	2.1	1.10	151.00	129.00	5000	6700	43.0
7030AC		225	35	2.1	1.10	143.00	120.00	4300	5600	62.0
7230C		270	45	3.0	1.10	247.00	213.00	4200	5600	79.0
7230AC		270	45	3.0	1.10	236.00	200.00	3600	5000	120.0
7032C	160	240	38	2.1	1.10	172.00	146.00	4500	6300	46.0
7032AC		240	38	2.1	1.10	163.00	140.00	4000	5300	66.0
7232C		290	48	3.0	1.10	259.00	225.00	3600	5200	84.0
7032AC		290	48	3.0	1.10	247.00	211.00	2900	4500	129.0
7034ACQ1	170	260	42	2.1	1.10	153.00	227.00	2000	2600	71.1
7034AC		260	42	2.1	1.10	153.00	227.00	2000	2600	71.1
7234C		310	52	2.1	1.50	247.00	389.00	2800	3400	58.2
7234AC		310	52	4.0	1.50	235.00	371.00	1800	2400	82.0
B7234AC	180	310	52	4.0	1.50	217.00	343.00	1500	1900	82.0
7236C		320	52	4.0	1.50	256.00	418.00	2700	3200	59.5
7236AC		320	52	4.0	1.50	244.00	399.00	1700	2200	84.3
7336B		380	75	4.0	1.50	311.00	536.00	1300	1800	155.0
7038AC	190	290	46	2.1	1.10	165.00	263.00	1800	2400	79.0
7040AC		310	51	2.1	1.10	203.00	331.00	1700	2200	85.0
7040ACN1		310	51	2.1	1.10	203.00	331.00	1700	2200	85.0
7240C		360	58	4.0	1.50	279.00	487.00	2500	3000	66.5
7240AC	200	360	58	4.0	1.50	265.00	462.00	1500	2000	94.3
7240B		360	58	4.0	1.50	238.00	417.00	1300	1800	146.5
7244AC		220	400	65	4.0	1.50	325.00	605.00	1100	1600
72948AC	240	320	48	2.1	1.10	142.00	250.00	1000	1500	89.3

Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	343.00	380.00	3900	5200	144	216	223.0	2.5	1.00	6.2500
/DB	/DF	/DT	329.00	352.00	3500	4700	144	216	223.0	2.5	1.00	6.2500
/DB	/DF	/DT	499.00	578.00	3600	4800	146	264	271.0	3.0	1.00	13.6000
/DB	/DF	/DT	476.00	542.00	3300	4400	146	264	271.0	3.0	1.00	13.6000
/DB	/DF	/DT	216.00	240.00	4100	5400	150	200	204.0	2.0	1.00	3.4000
/DB	/DF	/DT	203.00	228.00	3700	4900	150	200	204.0	2.0	1.00	3.4000
/DB	/DF	/DT	385.00	402.00	3600	4700	154	236	243.0	2.5	1.00	7.2000
/DB	/DF	/DT	367.00	376.00	3200	4300	154	236	243.0	2.5	1.00	7.2000
/DB	/DF	/DT	245.00	258.00	3900	5200	162	213	219.0	2.0	1.00	4.1000
/DB	/DF	/DT	232.00	240.00	3300	4300	162	213	219.0	2.0	1.00	4.1000
/DB	/DF	/DT	401.00	426.00	3200	4200	164	256	263.0	2.5	1.00	8.1200
/DB	/DF	/DT	383.00	400.00	2800	3900	164	256	263.0	2.5	1.00	8.1200
/DB	/DF	/DT	279.00	292.00	3500	4700	172	228	234.0	2.0	1.00	5.1000
/DB	/DF	/DT	265.00	280.00	3100	4100	172	228	234.0	2.0	1.00	5.1000
/DB	/DF	/DT	821.00	450.00	2800	4000	174	276	283.0	2.5		9.2000
/DB	/DF	/DT	401.00	422.00	2200	3500	174	276	283.0	2.5	1.00	9.2000
							182	248		2.0		8.2700
							182	248		2.0		7.9800
							188	292		3.0		17.2000
							188	292		3.0		17.2000
/DB			355.00	368.00	2900	3900	188	292	301.0	3.0	1.50	17.4000
							198	302		3.0		17.9000
							198	302		3.0		17.9000
							198	362		3.0		37.0000
		/DT	267.00	526.00	2600	3400	202	278	283.0	2.0	1.00	10.7000
	/DF		430.00	924.00	2200	3000	212	298	351.0	2.0	1.50	14.9000
							212	298		2.0		14.8000
	/DF		453.00	974.00	2200	3000	218	342	351.0	3.0	1.50	25.2000
							218	342		3.0	1.50	25.2000
/DB			387.00	834.00	2200	3000	218	342	351.0	3.0	1.50	25.8000
							238	382		3.0		36.1000
							252	308		2.0		10.0000

Angular contact ball bearings



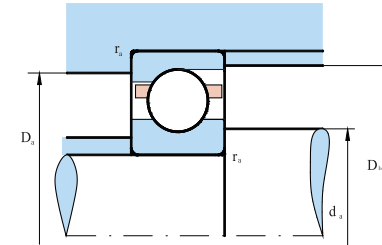
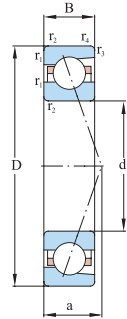
Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
7248B	240	440	72	4.0	1.50	322.00	626.00	1000	1500	178.5
71952AC	260	360	46	2.1	1.10	200.00	380.00	900	1400	95.3
71956AC	280	380	46	2.1	1.10	206.00	405.00	800	1300	99.9
71957Y	285	380	46	2.1	1.10	188.00	366.00	800	1300	119.0
7072CF3	360	540	82	5.0	1.30	409.00	965.00	600	1000	101.3
71976B	380	520	65	4.0	1.50	273.00	630.00	500	800	221.4
71876B		480	92	2.1	1.10					601.0

Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
							258	411		3.0		50.9000
							272	348		2.0		13.8000
							292	368		2.0		15.7000
							297	368		2.0		14.7000
							382	518		4.0		65.3000
							398	502		3.0		42.1000
/DB			276.00	730.00			392	468	473.0	2.0	1.00	37.2000



Angular contact ball bearings

High-speed



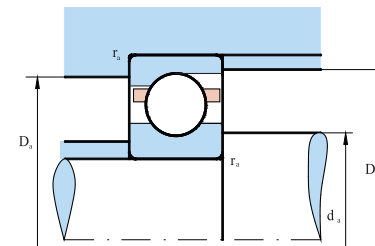
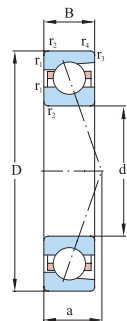
Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
71900CTA	10	22	6	0.3	0.10	2.51	1.20	70000	110000	5.0
71900ACTA		22	6	0.3	0.10	2.42	1.14	63000	95000	7.0
7000CTA		26	8	0.3	0.10	5.38	2.49	67000	100000	6.0
7000ACTA		26	8	0.3	0.10	5.11	2.41	56000	85000	8.0
7200CTA		30	9	0.6	0.30	5.81	2.93	60000	90000	7.0
7200ACTA		30	9	0.6	0.30	5.59	2.82	53000	80000	9.0
71901CTA	12	24	6	0.3	0.10	2.65	1.32	63000	95000	5.0
71901ACTA		24	6	0.3	0.10	2.55	1.25	56000	85000	7.0
7001CTA		28	8	0.3	0.10	5.18	2.93	60000	90000	7.0
7001ACTA		28	8	0.3	0.10	5.59	2.81	53000	80000	9.0
7201CTA		32	10	0.6	0.30	7.93	3.84	53000	80000	8.0
7201ACTA		32	10	0.6	0.30	7.66	3.73	48000	70000	10.0
71902CTA	15	28	7	0.3	0.10	4.76	2.64	56000	85000	6.0
71902ACTA		28	7	0.3	0.10	4.54	2.53	50000	75000	9.0
7002CTA		32	9	0.3	0.10	6.62	3.70	50000	75000	8.0
7002ACTA		32	9	0.3	0.10	6.33	3.53	45000	67000	10.0
7202CTA		35	11	0.6	0.30	9.26	5.03	48000	70000	9.0
7202ACTA		35	11	0.6	0.30	8.89	4.92	43000	63000	12.0
71903CTA	17	30	7	0.3	0.10	5.01	2.94	50000	75000	7.0
71903ACTA		30	7	0.3	0.10	4.76	2.80	45000	67000	9.0
7003CTA		35	10	0.3	0.10	7.63	4.37	48000	70000	9.0
7003ACTA		35	10	0.3	0.10	7.31	4.17	40000	60000	11.0
7203CTA		40	12	0.6	0.30	11.60	6.46	43000	63000	10.0
7203ACTA		40	12	0.6	0.30	11.10	6.21	38000	56000	13.0
71904CTA	20	37	9	0.3	0.15	6.05	4.56	43000	63000	8.0
71904ACTA		37	9	0.3	0.15	5.72	4.37	38000	56000	11.0
7004CTA		42	12	0.6	0.30	11.10	6.56	38000	56000	10.0
7004ACTA		42	12	0.6	0.30	10.30	6.26	34000	50000	13.0
7204CTA		47	14	1.0	0.30	15.60	9.01	36000	53000	12.0
7204ACTA		47	14	1.0	0.30	15.00	8.63	32000	48000	15.0
71805CTA	25	37	7	0.3	0.15	5.05	3.85	38000	56000	7.5
71805ACTA		37	7	0.3	0.15	4.83	3.61	34000	51000	11.0

Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	4.08	2.40	56000	88000	12.0	20.0	20.8	0.3	0.10	0.0090
/DB	/DF	/DT	3.93	2.28	50000	76000	12.0	20.0	20.8	0.3	0.10	0.0090
/DB	/DF	/DT	8.74	4.98	53000	80000	12.0	24.0	24.4	0.3	0.10	0.0190
/DB	/DF	/DT	8.30	4.82	44800	68000	12.0	24.0	24.4	0.3	0.10	0.0190
/DB	/DF	/DT	9.44	5.86	48000	72000	15.0	25.0	28.0	0.6	0.30	0.0310
/DB	/DF	/DT	9.08	5.64	42000	64000	15.0	25.0	28.0	0.6	0.30	0.0310
/DB	/DF	/DT	4.30	2.64	50000	76000	14.0	22.0	22.8	0.3	0.10	0.0100
/DB	/DF	/DT	4.14	2.50	44800	68000	14.0	22.0	22.8	0.3	0.10	0.0100
/DB	/DF	/DT	9.44	5.86	48000	72000	14.0	26.0	26.4	0.3	0.10	0.0210
/DB	/DF	/DT	9.08	5.62	42000	64000	14.0	26.0	26.4	0.6	0.10	0.0210
/DB	/DF	/DT	12.90	7.68	42000	64000	17.0	27.0	30.0	0.6	0.30	0.0360
/DB	/DF	/DT	12.40	7.46	38000	56000	17.0	27.0	30.0	0.6	0.30	0.0360
/DB	/DF	/DT	7.73	5.28	44800	68000	17.0	26.0	26.8	0.3	0.10	0.0160
/DB	/DF	/DT	7.38	5.06	40000	60000	17.0	26.0	26.8	0.3	0.10	0.0160
/DB	/DF	/DT	10.80	7.40	40000	60000	17.0	30.0	30.4	0.3	0.10	0.3000
/DB	/DF	/DT	10.30	7.06	36000	53000	17.0	30.0	30.4	0.3	0.10	0.3000
/DB	/DF	/DT	15.00	10.10	38000	56000	20.0	30.0	33.0	0.6	0.30	0.0450
/DB	/DF	/DT	14.40	9.84	34000	50000	20.0	30.0	33.0	0.6	0.30	0.0450
/DB	/DF	/DT	8.14	5.88	40000	60000	19.0	28.0	28.8	0.3	0.10	0.0170
/DB	/DF	/DT	7.73	5.60	36000	53000	19.0	28.0	28.8	0.3	0.10	0.0170
/DB	/DF	/DT	12.40	8.74	38000	56000	19.0	33.0	33.4	0.3	0.10	0.0380
/DB	/DF	/DT	11.90	8.34	32000	48000	19.0	33.0	33.4	0.3	0.10	0.0380
/DB	/DF	/DT	18.80	12.90	34000	50000	22.0	35.0	38.0	0.6	0.30	0.0640
/DB	/DF	/DT	18.00	12.40	30000	44800	22.0	35.0	38.0	0.6	0.30	0.0640
/DB	/DF	/DT	9.83	9.12	34000	50000	22.0	35.0	35.8	0.3	0.10	0.0350
/DB	/DF	/DT	9.29	8.74	30000	44800	22.0	35.0	35.8	0.3	0.10	0.0350
/DB	/DF	/DT	18.00	13.10	30000	44800	25.0	37.0	40.0	0.6	0.10	0.0670
/DB	/DF	/DT	16.70	12.50	27000	40000	25.0	37.0	40.0	0.6	0.30	0.0670
/DB	/DF	/DT	25.30	18.00	28000	42000	26.0	41.0	45.0	1.0	0.30	0.1020
/DB	/DF	/DT	24.40	17.30	25000	38000	26.0	41.0	45.0	1.0	0.30	0.1020
/DB	/DF	/DT	8.20	7.70	30000	44800	27.0	34.5	35.5	0.3	0.10	0.0210
/DB	/DF	/DT	7.85	7.22	27000	40000	27.0	34.5	35.5	0.3	0.10	0.0210



Angular contact ball bearings

High-speed



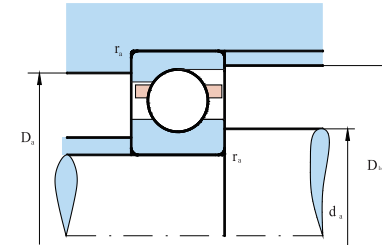
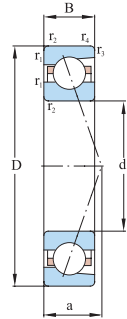
Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
71905CTA	25	42	9	0.3	0.15	8.26	5.55	36000	53000	9.0
71905ACTA		42	9	0.3	0.15	7.83	5.37	32000	48000	12.0
7005CTA		47	12	0.6	0.30	12.30	8.02	34000	50000	11.0
7005ACTA		47	12	0.6	0.30	11.60	7.62	28000	43000	15.0
7205CTA		52	15	1.0	0.30	17.60	11.10	30000	45000	13.0
7205ACTA		52	15	1.0	0.30	16.80	10.60	26000	40000	17.0
71806CTA	30	42	7	0.3	0.15	5.35	4.50	32000	48000	8.5
71806ACTA		42	7	0.3	0.15	5.12	4.22	28000	43000	12.0
71906CTA		47	9	0.3	0.15	8.98	6.43	30000	45000	10.0
71906ACTA		47	9	0.3	0.15	8.49	6.12	26000	40000	14.0
7006CTA		55	13	1.0	0.30	15.90	11.00	28000	43000	12.0
7006ACTA		55	13	1.0	0.30	15.10	10.50	24000	38000	17.0
7206CTA	35	62	16	1.0	0.30	24.30	16.00	34000	38000	14.0
7206ACTA		62	16	1.0	0.30	23.30	15.30	20000	34000	19.0
71807CTA		47	7	0.3	0.15	5.80	5.25	27000	42000	9.0
71807ACTA		47	7	0.3	0.15	5.55	4.93	23000	38000	13.0
71907CTA		55	10	0.6	0.15	11.00	8.54	26000	40000	11.0
71907ACTA		55	10	0.6	0.15	10.30	8.09	22000	36000	16.0
7007CTA	40	62	14	1.0	0.30	20.00	13.90	22000	36000	14.0
7007ACTA		62	14	1.0	0.30	19.00	16.00	19000	32000	19.0
7207CTA		72	17	1.1	0.30	32.10	21.80	20000	34000	16.0
7207ACTA		72	17	1.1	0.30	30.70	20.80	18000	30000	21.0
71808CTA		52	7	0.3	0.15	6.05	5.75	21000	36000	9.5
71808ACTA		52	7	0.3	0.15	5.79	5.40	19000	32000	14.0
71908CTA	45	62	12	0.6	0.15	14.40	11.80	20000	34000	13.0
71908ACTA		62	12	0.6	0.15	13.70	11.10	18000	30000	18.0
7008CTA		68	15	1.0	0.30	20.30	16.00	19000	32000	15.0
7008ACTA		68	15	1.0	0.30	19.40	15.10	18000	30000	20.0
7208CTA		80	18	1.1	0.30	33.70	24.20	18000	30000	17.0
7208ACTA		80	18	1.1	0.30	32.10	23.20	16000	26000	23.0
71809CTA	45	58	7	0.3	0.15	7.60	7.40	20000	33000	10.5
71809ACTA		58	7	0.3	0.15	7.27	6.94	18000	30000	15.5

Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	13.40	11.10	28000	42000	27.0	40.0	40.8	0.3	0.10	0.0420
/DB	/DF	/DT	12.70	10.70	25000	38000	27.0	40.0	40.8	0.3	0.10	0.0420
/DB	/DF	/DT	20.00	16.00	27000	40000	30.0	42.0	45.0	0.6	0.30	0.0780
/DB	/DF	/DT	18.80	15.20	22000	34000	30.0	42.0	45.0	0.6	0.30	0.0780
/DB	/DF	/DT	28.60	22.20	24000	36000	31.0	46.0	50.0	1.0	0.30	0.1280
/DB	/DF	/DT	27.30	21.20	20000	32000	31.0	46.0	50.0	1.0	0.30	0.1280
/DB	/DF	/DT	8.69	9.00	25000	38000	32.0	39.5	40.5	0.3	0.10	0.0250
/DB	/DF	/DT	8.32	8.44	22000	34000	32.0	39.5	40.5	0.3	0.10	0.0250
/DB	/DF	/DT	14.60	12.90	24000	36000	32.0	45.0	45.8	0.3	0.10	0.0470
/DB	/DF	/DT	13.80	12.20	20000	32000	32.0	45.0	45.8	1.0	0.10	0.0470
/DB	/DF	/DT	25.80	22.00	22000	34000	36.0	49.0	53.0	1.0	0.30	0.1140
/DB	/DF	/DT	24.50	21.00	19000	30000	36.0	49.0	53.0	1.0	0.30	0.1140
/DB	/DF	/DT	39.50	32.00	19000	30000	36.0	56.0	60.0	1.0	0.30	0.1980
/DB	/DF	/DT	37.90	30.60	16000	27000	36.0	56.0	60.0	1.0	0.30	0.1980
/DB	/DF	/DT	9.42	10.50	21000	33000	37.5	44.5	45.5	0.3	0.10	0.0280
/DB	/DF	/DT	9.02	9.86	18000	30000	37.5	44.5	45.5	0.3	0.10	0.0280
/DB	/DF	/DT	17.90	17.10	20000	32000	40.0	50.0	53.8	0.6	0.10	0.0750
/DB	/DF	/DT	16.70	16.20	17000	28000	40.0	50.0	53.8	0.6	0.10	0.0750
/DB	/DF	/DT	32.50	27.80	17000	36000	41.0	56.0	60.0	1.0	0.30	0.1520
/DB	/DF	/DT	30.90	32.00	15000	25000	41.0	56.0	60.0	1.0	0.30	0.1520
/DB	/DF	/DT	52.10	43.60	16000	27000	42.0	65.0	70.0	1.0	0.30	0.2820
/DB	/DF	/DT	49.90	41.60	14000	24000	42.0	65.0	70.0	1.0	0.30	0.2820
/DB	/DF	/DT	9.83	11.50	16000	28000	42.5	49.5	50.5	0.3	0.10	0.0310
/DB	/DF	/DT	9.41	10.80	15000	25000	42.5	49.5	50.5	0.3	0.10	0.0310
/DB	/DF	/DT	23.40	23.60	16000	27000	45.0	57.0	60.8	0.6	0.10	0.1110
/DB	/DF	/DT	25.60	22.20	14000	24000	45.0	57.0	60.8	0.6	0.10	0.1110
/DB	/DF	/DT	33.00	32.00	15000	25000	46.0	62.0	66.0	1.0	0.30	0.1870
/DB	/DF	/DT	31.50	30.20	14000	24000	46.0	62.0	66.0	1.0	0.30	0.1870
/DB	/DF	/DT	54.70	48.40	14000	24000	47.0	73.0	75.0	1.0	0.60	0.3690
/DB	/DF	/DT	52.10	46.40	12500	20000	47.0	73.0	75.0	1.0	0.60	0.3690
/DB	/DF	/DT	12.30	14.80	16000	26000	47.5	55.5	56.5	0.3	0.10	0.0380
/DB	/DF	/DT	11.80	13.90	14000	24000	47.5	55.5	56.5	0.3	0.10	0.0380



Angular contact ball bearings

High-speed

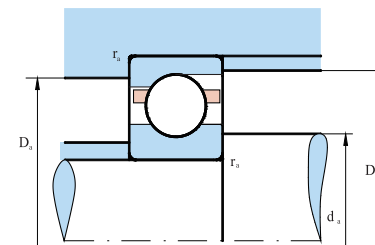
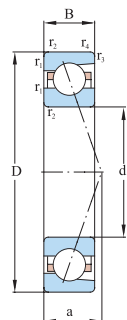


Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		mm
71909CTA	45	68	12	0.6	0.15	16.50	14.10	19000	32000	14.0
71909ACTA		68	12	0.6	0.15	15.70	13.30	17000	28000	19.0
7009CTA		75	16	1.0	0.30	25.40	20.40	18000	30000	16.0
7009ACTA		75	16	1.0	0.30	23.90	19.40	16000	26000	22.0
7209CTA		85	19	1.1	0.60	38.10	27.80	17000	28000	18.0
7209ACTA		85	19	1.1	0.60	36.30	26.60	15000	24000	25.0
71810CTA	50	65	7	0.3	0.15	7.90	8.05	17000	29000	11.0
71810ACTA		65	7	0.3	0.15	7.56	7.55	16000	7000	17.0
71910CTA		72	12	0.6	0.15	16.90	14.90	17000	28000	14.0
71910ACTA		72	12	0.6	0.15	16.00	14.20	16000	26000	20.0
7010CTA		80	16	1.0	0.30	25.60	21.80	17000	28000	17.0
7010ACTA		80	16	1.0	0.30	24.60	20.80	15000	24000	23.0
7210CTA	55	90	20	1.1	0.60	37.40	34.00	16000	26000	20.0
7210ACTA		90	20	1.1	0.60	42.60	32.50	14000	22000	27.0
71811CTA		72	9	0.3	0.15	13.10	12.70	17000	28000	13.0
71811ACTA		72	9	0.3	0.15	12.50	11.90	16000	26000	19.0
71911CTA		80	13	1.0	0.30	22.90	20.50	16000	26000	16.0
71911ACTA		80	13	1.0	0.30	21.60	19.40	15000	24000	22.0
7011CTA	60	90	18	1.1	0.60	33.30	28.30	15000	24000	19.0
7011ACTA		90	18	1.1	0.60	31.50	27.10	14000	22000	26.0
7211CTA		100	21	1.5	0.60	55.40	42.80	14000	22000	21.0
7211ACTA		100	21	1.5	0.60	52.90	41.00	13000	20000	29.0
71812CTA		78	10	0.3	0.15	13.40	13.60	16000	25000	14.0
71812ACTA		78	10	0.3	0.15	12.80	12.80	15000	23000	21.0
71912CTA	65	85	13	1.0	0.30	23.70	22.70	15000	24000	16.0
71912ACTA		85	13	1.0	0.30	22.80	21.50	14000	22000	23.0
7012CTA		95	18	1.1	0.60	37.20	32.70	14000	22000	20.0
7012ACTA		95	18	1.1	0.60	35.60	31.10	13000	20000	27.0
7212CTA		110	22	1.5	0.60	61.00	48.30	13000	20000	23.0
7212ACTA		110	22	1.5	0.60	58.10	46.00	11000	18000	31.0
71813CTA	65	85	10	0.6	0.30	14.10	14.90	14000	23000	15.0
71813ACTA		85	10	0.6	0.30	13.50	14.00	13000	21000	22.5

Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	26.80	28.20	15000	25000	50.0	63.0	66.8	0.6	0.10	0.1260
/DB	/DF	/DT	25.50	26.30	13000	22000	50.0	63.0	66.8	0.6	0.10	0.1265
/DB	/DF	/DT	41.30	40.80	14000	25000	51.0	69.0	73.0	1.0	0.30	0.2390
/DB	/DF	/DT	38.80	38.80	12500	20000	51.0	69.0	73.0	1.0	0.30	0.2390
/DB	/DF	/DT	61.90	55.60	13000	22000	52.0	78.0	80.0	1.0	0.60	0.4150
/DB	/DF	/DT	59.00	53.20	12000	19000	52.0	78.0	80.0	1.0	0.60	0.4150
/DB	/DF	/DT	12.80	16.10	13000	23000	52.5	62.5	63.5	0.3	0.10	0.0490
/DB	/DF	/DT	12.30	15.10	12500	21000	52.5	62.5	63.5	0.3	0.10	0.0490
/DB	/DF	/DT	27.50	29.80	13000	22000	55.0	67.0	70.8	0.3	0.10	0.1290
/DB	/DF	/DT	26.00	28.40	12500	20000	55.0	67.0	70.8	0.3	0.10	0.1290
/DB	/DF	/DT	41.00	43.60	13000	22000	56.0	74.0	78.0	1.0	0.30	0.2580
/DB	/DF	/DT	40.00	41.60	12000	19000	56.0	74.0	78.0	1.0	0.30	0.2590
/DB	/DF	/DT	60.80	68.00	12500	20000	57.0	83.0	85.0	1.0	0.60	0.4660
/DB	/DF	/DT	69.20	65.00	11000	17000	57.0	83.0	85.0	1.0	0.60	0.4660
/DB	/DF	/DT	21.30	25.30	13000	22000	57.5	69.5	70.5	0.3	0.15	0.0790
/DB	/DF	/DT	20.30	23.80	12500	20000	57.5	69.5	70.5	0.3	0.15	0.0790
/DB	/DF	/DT	37.20	41.00	12500	20000	61.0	74.0	78.0	1.0	0.30	0.1740
/DB	/DF	/DT	35.10	38.80	12000	19000	61.0	74.0	78.0	1.0	0.30	0.1740
/DB	/DF	/DT	54.10	56.60	12000	19000	62.0	83.0	86.0	1.0	0.60	0.3900
/DB	/DF	/DT	51.20	54.20	11000	17000	62.0	83.0	86.0	1.0	0.60	0.3900
/DB	/DF	/DT	90.00	85.60	11000	17000	64.0	91.0	95.0	1.5	0.60	0.6150
/DB	/DF	/DT	85.90	82.00	10000	16000	64.0	91.0	95.0	1.5	0.60	0.6150
/DB	/DF	/DT	21.80	27.20	12500	20000	62.5	75.5	76.5	0.3	0.15	0.1010
/DB	/DF	/DT	20.80	25.60	12000	18000	62.5	75.5	76.5	0.3	0.15	0.1010
/DB	/DF	/DT	38.50	45.40	12000	19000	66.0	79.0	83.0	1.0	0.30	0.1870
/DB	/DF	/DT	37.00	43.00	11000	17000	66.0	79.0	83.0	1.0	0.30	0.1870
/DB	/DF	/DT	60.40	65.40	11000	17000	67.0	88.0	91.0	1.0	0.60	0.3980
/DB	/DF	/DT	57.80	62.20	10000	16000	67.0	88.0	91.0	1.0	0.60	0.3980
/DB	/DF	/DT	99.10	96.40	10000	20000	69.0	101.0	105.0	1.5	0.60	0.8000
/DB	/DF	/DT	94.40	92.00	8800	14000	69.0	101.0	105.0	1.5	0.60	0.8000
/DB	/DF	/DT	22.90	29.80	11000	18000	70.0	80.0	82.5	0.6	0.30	0.1220
/DB	/DF	/DT	21.90	28.00	10000	16000	70.0	80.0	82.5	0.6	0.30	0.1220

Angular contact ball bearings

High-speed

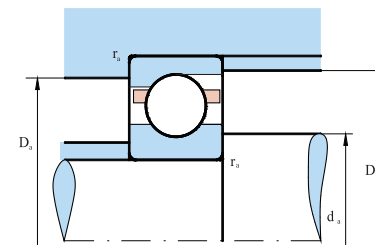
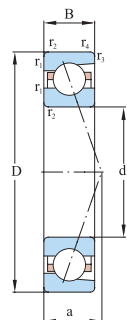


Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a	
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil		
	mm					kN		r/min			mm
71913CTA	65	90	13	1.0	0.30	24.40	24.00	14000	22000	17.0	
71913ACTA		90	13	1.0	0.30	22.90	22.60	13000	20000	25.0	
7013CTA		100	18	1.1	0.60	41.50	37.20	14000	22000	20.0	
7013ACTA		100	18	1.1	0.60	39.30	35.50	12000	19000	28.0	
7213CTA		120	23	1.5	0.60	63.40	52.70	12000	19000	24.0	
7213ACTA		120	23	1.5	0.60	60.30	50.30	10000	17000	33.0	
71814CTA	70	90	10	0.6	0.30	14.50	15.80	14000	21000	15.5	
71814ACTA		90	10	0.6	0.30	13.90	14.80	12000	19000	23.5	
71914CTA		100	16	1.0	0.30	28.70	29.00	13000	20000	19.0	
71914ACTA		100	16	1.0	0.30	27.30	27.40	11000	18000	28.0	
7014CTA		110	20	1.1	0.60	49.90	45.50	12000	19000	22.0	
7014ACTA		110	20	1.1	0.60	47.30	43.30	10000	17000	31.0	
7214CTA		125	24	1.5	0.60	69.40	58.40	11000	18000	25.0	
7214ACTA		125	24	1.5	0.60	66.00	55.70	9500	16000	35.0	
71815CTA	75	95	10	0.6	0.30	14.80	16.70	12500	20000	16.5	
71815ACTA		95	10	0.6	0.30	14.20	15.70	10500	18000	25.0	
71915CTA		105	16	1.0	0.30	29.40	30.30	12000	19000	20.0	
71915ACTA		105	16	1.0	0.30	27.70	28.60	10000	17000	29.0	
7015CTA		115	20	1.1	0.60	50.80	48.40	11000	18000	23.0	
7015ACTA		115	20	1.1	0.60	48.40	46.00	9500	16000	32.0	
7215CTA	75	130	25	1.5	0.60	75.90	64.40	10000	17000	26.0	
7215ACTA		130	25	1.5	0.60	72.00	61.50	9000	15000	37.0	
71816CTA	80	100	10	0.6	0.30	15.10	17.60	11500	18000	17.0	
71816ACTA		100	10	0.6	0.30	14.40	16.50	11000	16500	26.0	
71916CTA		110	16	1.0	0.30	30.60	32.80	11000	18000	21.0	
71916ACTA		110	16	1.0	0.30	28.70	30.40	9500	16000	30.0	
7016CTA		125	22	1.1	0.60	53.80	52.00	10000	17000	25.0	
7016ACTA		125	22	1.1	0.60	51.50	49.30	9000	15000	35.0	
7216CTA		140	26	2.0	1.00	89.60	76.90	9500	16000	28.0	
7216ACTA		140	26	2.0	1.00	85.00	73.60	8500	14000	39.0	
71817CTA		85	110	13	1.0	0.60	22.10	24.70	10500	17000	19.5
71817ACTA			110	13	1.0	0.60	21.10	23.20	9500	16000	29.0

Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	39.60	48.00	11000	17000	71.0	84.0	88.0	1.0	0.30	0.2000
/DB	/DF	/DT	37.20	45.20	1000	16000	71.0	84.0	88.0	1.0	0.30	0.2000
/DB	/DF	/DT	67.40	74.40	11000	17000	72.0	93.0	96.0	1.0	0.60	0.4270
/DB	/DF	/DT	63.80	71.00	9600	15000	72.0	93.0	96.0	1.0	0.60	0.4270
/DB	/DF	/DT	103.00	105.00	9600	15000	74.0	111.0	115.0	1.5	0.60	1.0300
/DB	/DF	/DT	98.00	101.00	8000	13000	74.0	111.0	115.0	1.5	0.60	1.0300
/DB	/DF	/DT	23.60	31.60	11000	16000	75.0	85.0	87.5	0.6	0.30	0.1300
/DB	/DF	/DT	22.60	29.60	9600	15000	75.0	85.0	87.5	0.6	0.30	0.1300
/DB	/DF	/DT	46.60	58.00	10000	16000	76.0	94.0	98.0	1.0	0.30	0.3360
/DB	/DF	/DT	44.30	54.80	8000	14000	76.0	94.0	98.0	1.0	0.30	0.3360
/DB	/DF	/DT	81.10	91.00	9600	15000	77.0	103.0	106.0	1.0	0.60	0.5980
/DB	/DF	/DT	76.80	86.60	8000	13000	77.0	103.0	106.0	1.0	0.60	0.5980
/DB	/DF	/DT	113.00	117.00	8800	14000	79.0	116.0	120.0	1.5	0.60	1.1100
/DB	/DF	/DT	107.00	111.00	7600	12500	79.0	116.0	120.0	1.5	0.60	1.1100
/DB	/DF	/DT	24.00	33.40	10000	16000	80.0	90.0	92.5	0.6	0.30	0.1380
/DB	/DF	/DT	23.10	31.40	8400	14000	80.0	90.0	92.5	0.6	0.30	0.1380
/DB	/DF	/DT	47.80	60.60	9600	15000	81.0	99.0	103.0	1.0	0.30	0.3560
/DB	/DF	/DT	45.00	57.20	8000	13000	81.0	99.0	103.0	1.0	0.30	0.3560
/DB	/DF	/DT	82.50	96.80	8800	14000	82.0	108.0	111.0	1.0	0.60	0.6320
/DB	/DF	/DT	78.60	92.00	7600	12500	82.0	108.0	111.0	1.0	0.60	0.6320
/DB	/DF	/DT	123.00	129.00	8000	13000	84.0	121.0	125.0	1.5	0.60	1.1900
/DB	/DF	/DT	117.00	123.00	7200	12000	84.0	121.0	125.0	1.5	0.60	1.1900
/DB	/DF	/DT	24.50	35.20	9200	14000	85.0	95.0	97.5	0.6	0.30	0.1460
/DB	/DF	/DT	23.40	33.00	8800	13200	85.0	95.0	97.5	0.6	0.30	0.1460
/DB	/DF	/DT	49.70	65.60	8800	14000	86.0	104.0	108.0	1.0	0.30	0.3760
/DB	/DF	/DT	46.60	60.80	7600	12500	86.0	104.0	108.0	1.0	0.30	0.3760
/DB	/DF	/DT	87.40	104.00	8000	13000	87.0	118.0	121.0	1.0	0.60	0.8600
/DB	/DF	/DT	83.70	98.60	7200	12000	87.0	118.0	121.0	1.0	0.60	0.8600
/DB	/DF	/DT	146.00	154.00	7600	12500	90.0	130.0	134.0	2.0	1.00	1.4500
/DB	/DF	/DT	138.00	147.00	6800	11000	90.0	130.0	134.0	2.0	1.00	1.4500
/DB	/DF	/DT	35.90	49.40	8400	13000	91.0	104.0	106.5	1.0	0.50	0.2570
/DB	/DF	/DT	34.30	46.40	7600	12500	91.0	104.0	106.5	1.0	0.50	0.2570

Angular contact ball bearings

High-speed



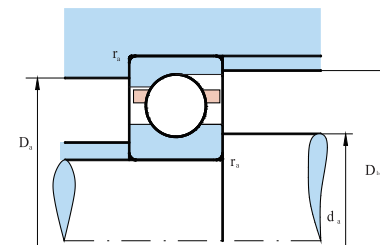
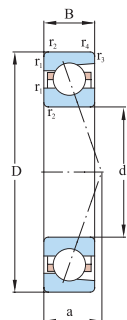
Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
71917CTA	85	120	18	1.1	0.60	39.90	42.20	10000	17000	23.0
71917ACTA		120	18	1.1	0.60	37.70	39.80	9000	15000	33.0
7017CTA		130	22	1.1	0.60	60.10	58.60	9500	16000	26.0
7017ACTA		130	22	1.1	0.60	56.90	55.50	8500	14000	36.0
7217CTA		150	28	2.0	1.00	96.50	84.10	9000	15000	30.0
7217ACTA		150	28	2.0	1.00	93.00	80.30	8000	13000	42.0
71818CTA	90	115	13	1.0	0.60	22.70	26.10	9900	17000	20.0
71818ACTA		115	13	1.0	0.60	21.70	24.50	8900	15000	30.5
71918CTA		125	18	1.1	0.60	40.70	44.00	9500	16000	23.0
71918ACTA		125	18	1.1	0.60	38.90	41.30	8500	14000	34.0
7018CTA		140	24	1.5	0.60	66.60	65.80	9000	15000	28.0
7018ACTA		140	24	1.5	0.60	62.90	62.30	8000	13000	39.0
7218CTA		160	30	2.0	1.00	122.00	105.00	8500	14000	32.0
7218ACTA		160	30	2.0	1.00	117.00	102.00	7500	12000	44.0
71819CTA	95	120	13	1.0	0.60	23.40	27.60	9300	15300	21.0
71819ACTA		120	13	1.0	0.60	22.40	25.90	8800	14300	32.0
71919CTA		130	18	1.1	0.60	41.20	45.80	9000	15000	24.0
71919ACTA		130	18	1.1	0.60	39.00	42.60	8500	14000	35.0
7019CTA		145	24	1.5	0.60	74.10	72.90	8500	14000	28.0
7019ACTA		145	24	1.5	0.60	70.90	69.30	8000	13000	40.0
7219CTA		170	32	2.0	1.10	138.00	124.00	8000	14000	34.0
7219ACTA		170	32	2.0	1.10	133.00	114.00	7500	12000	47.0
71820CTA		125	13	1.0	0.60	23.50	28.30	8800	14500	21.5
71820ACTA		125	13	1.0	0.60	22.50	26.60	8300	13500	33.0
71920CTA	100	140	20	1.1	0.60	53.60	57.60	8500	14000	26.0
71920ACTA		140	20	1.1	0.60	50.60	54.40	8000	13000	38.0
7020CTA		150	24	1.5	0.60	80.70	80.80	8500	14000	29.0
7020ACTA		150	24	1.5	0.60	77.10	76.70	7500	12000	41.0
7220CTA		180	34	2.1	1.10	156.00	136.00	7500	12000	36.0
7220ACTA		180	34	2.1	1.10	148.00	130.00	7000	11000	50.0
71821CTA	105	130	13	1.0	0.60	24.10	29.80	8900	14500	20.0
71821ACTA		130	13	1.0	0.60	23.00	28.00	7900	12400	34.0

Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	64.80	84.40	8000	13000	92.0	113.0	115.0	1.0	0.60	0.5320
/DB	/DF	/DT	61.20	79.60	7200	12000	92.0	113.0	115.0	1.0	0.60	0.5320
/DB	/DF	/DT	97.60	117.00	7600	12500	92.0	123.0	126.0	1.0	0.60	0.8900
/DB	/DF	/DT	92.40	111.00	6800	11000	92.0	123.0	126.0	1.0	0.60	0.8900
/DB	/DF	/DT	158.00	168.00	7200	12000	95.0	140.0	144.0	2.0	1.00	1.8400
/DB	/DF	/DT	151.00	161.00	7200	10000	95.0	140.0	144.0	2.0	1.00	1.8400
/DB	/DF	/DT	36.90	52.20	7900	13000	96.0	109.0	111.5	1.0	0.50	0.2700
/DB	/DF	/DT	35.30	49.00	7100	12000	96.0	109.0	111.5	1.0	0.50	0.2700
/DB	/DF	/DT	66.10	88.00	7600	12500	97.0	118.0	120.0	1.0	0.60	0.5550
/DB	/DF	/DT	63.20	82.60	6800	11000	97.0	118.0	120.0	1.0	0.60	0.5550
/DB	/DF	/DT	108.00	131.00	7200	12000	99.0	131.0	135.0	1.5	0.60	1.1700
/DB	/DF	/DT	102.00	125.00	6400	10000	99.0	131.0	135.0	1.5	0.60	1.1700
/DB	/DF	/DT	198.00	210.00	6800	11000	100.0	150.0	154.0	2.0	1.00	2.2300
/DB	/DF	/DT	190.00	204.00	6000	9600	100.0	150.0	154.0	2.0	1.00	2.2300
/DB	/DF	/DT	38.00	55.20	7400	12200	101.0	114.0	116.5	1.0	0.50	0.2830
/DB	/DF	/DT	36.40	51.80	7000	11400	101.0	114.0	116.5	1.0	0.50	0.2830
/DB	/DF	/DT	66.90	91.60	7200	12000	102.0	123.0	125.0	1.0	0.60	0.5800
/DB	/DF	/DT	63.40	85.20	6800	11000	102.0	123.0	125.0	1.0	0.60	0.5800
/DB	/DF	/DT	120.00	145.00	6800	11000	104.0	136.0	140.0	1.5	0.60	1.2000
/DB	/DF	/DT	115.00	139.00	6400	10000	104.0	136.0	140.0	1.5	0.60	1.2000
/DB	/DF	/DT	224.00	248.00	6400	10000	107.0	158.0	163.0	2.0	1.00	2.7000
/DB	/DF	/DT	216.00	228.00	6000	9600	107.0	158.0	163.0	2.0	1.00	2.7000
/DB	/DF	/DT	38.20	56.60	7000	11600	106.0	119.0	121.5	1.0	0.50	0.2960
/DB	/DF	/DT	36.60	53.20	6600	10800	106.0	119.0	121.5	1.0	0.50	0.2960
/DB	/DF	/DT	87.10	115.00	6800	11000	107.0	133.0	135.0	1.0	0.60	0.7820
/DB	/DF	/DT	82.20	109.00	6400	10000	107.0	133.0	135.0	1.0	0.60	0.7820
/DB	/DF	/DT	131.00	162.00	6800	11000	109.0	141.0	145.0	1.5	0.60	1.2300
/DB	/DF	/DT	125.00	153.00	6000	9600	109.0	141.0	145.0	1.5	0.60	1.2300
/DB	/DF	/DT	253.00	272.00	6000	9600	112.0	168.0	173.0	2.0	1.00	3.2500
/DB	/DF	/DT	240.00	260.00	5600	8800	112.0	168.0	173.0	2.0	1.00	3.2500
/DB	/DF	/DT	39.20	59.60	7100	11600	111.0	124.0	126.5	1.0	0.50	0.3100
/DB	/DF	/DT	37.40	56.00	6300	9900	111.0	124.0	126.5	1.0	0.50	0.3100



Angular contact ball bearings

High-speed



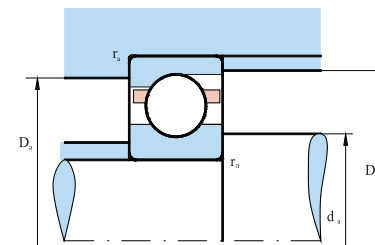
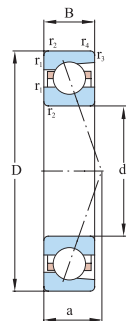
Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
71921CTA	105	145	20	1.1	0.60	55.70	61.40	8500	14000	27.0
71921ACTA		145	20	1.1	0.60	52.8	57.8	7500	12000	39.0
7021CTA		160	26	2.0	1.00	87.90	92.10	8000	13000	31.0
7021ACTA		160	26	2.0	1.00	82.60	84.70	7500	12000	44.0
7221CTA		190	36	2.1	1.10	170.00	153.00	7500	12000	38.0
7221ACTA		190	36	2.1	1.10	163.00	146.00	6700	10000	53.0
71822CTA	110	140	16	1.0	0.60	34.50	42.50	8300	13400	24.5
71822ACTA		140	16	1.0	0.60	33.00	39.90	7800	12400	37.0
71922CTA		150	20	1.1	0.60	57.70	64.10	8000	13000	27.0
71922ACTA		150	20	1.1	0.60	54.90	60.20	7500	12000	40.0
7022CTA		170	28	2.0	1.00	95.70	98.40	7500	12000	33.0
7022ACTA		170	28	2.0	1.00	89.80	93.10	7000	11000	47.0
7222CTA		200	38	2.1	1.10	185.00	171.00	7000	11000	40.0
7222ACTA		200	38	2.1	1.10	176.00	164.00	6700	10000	55.0
71824CTA	120	150	16	1.0	0.60	35.00	44.50	7800	12400	26.0
71824ACTA		150	16	1.0	0.60	33.50	41.70	7300	11400	39.5
71924CTA		165	22	1.1	0.60	78.00	81.00	7500	12000	30.0
71924ACTA		165	22	1.1	0.60	72.80	76.30	7000	11000	44.0
7024CTA		180	28	2.0	1.00	110.00	116.00	7000	11000	34.0
7024ACTA		180	28	2.0	1.00	106.00	111.00	6700	10000	49.0
7224CTA		215	40	2.1	1.10	199.00	185.00	6700	10000	43.0
7224ACTA		215	40	2.1	1.10	190.00	177.00	6000	9000	60.0
71826CTA	130	165	18	1.1	0.60	47.00	59.50	7300	11400	29.0
71826ACTA		165	18	1.1	0.60	45.00	55.80	7000	10300	29.0
71926CTA		180	24	1.5	0.60	87.20	99.90	7000	11000	33.0
71926ACTA		180	24	1.5	0.60	82.20	94.40	6700	10000	48.0
7026CTA		200	33	2.0	1.00	134.00	137.00	6700	10000	39.0
7026ACTA		200	33	2.0	1.00	125.00	130.00	6000	9000	55.0
7226CTA		230	40	3.0	1.10	216.00	201.00	6300	9500	44.0
7226ACTA		230	40	3.0	1.10	203.00	189.00	5600	8500	62.0
71828CTA	140	175	18	1.1	0.60	47.50	62.50	7000	10400	30.0
71828ACTA		175	18	1.1	0.60	45.40	58.60	6300	9500	46.0

Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	90.50	123.00	6800	11000	112.0	138.0	140.0	1.0	0.60	0.800
/DB	/DF	/DT	85.80	116.00	6000	9600	112.0	138.0	140.0	1.0	0.60	0.800
/DB	/DF	/DT	143.00	184.00	6400	10000	115.0	150.0	154.0	2.0	1.00	1.5800
/DB	/DF	/DT	134.00	169.00	6000	9600	115.0	150.0	154.0	2.0	1.00	1.5800
/DB	/DF	/DT	276.00	306.00	6000	9600	117.0	178.0	183.0	2.0	1.00	3.8800
/DB	/DF	/DT	265.00	292.00	5300	8000	117.0	178.0	183.0	2.0	1.00	3.8800
/DB	/DF	/DT	56.00	85.00	6600	10700	116.0	134.0	136.5	1.0	0.50	0.4860
/DB	/DF	/DT	53.60	79.80	6200	9900	116.0	134.0	136.5	1.0	0.50	0.4860
/DB	/DF	/DT	93.70	128.00	6400	10000	117.0	143.0	145.0	1.0	0.60	0.9210
/DB	/DF	/DT	89.20	120.00	6000	9600	117.0	143.0	145.0	1.0	0.60	0.9210
/DB	/DF	/DT	155.00	197.00	6000	9600	120.0	160.0	164.0	2.0	1.00	1.9900
/DB	/DF	/DT	146.00	186.00	5600	8800	120.0	160.0	164.0	2.0	1.00	1.9900
/DB	/DF	/DT	301.00	342.00	5600	8800	122.0	188.0	193.0	2.0	1.00	4.5600
/DB	/DF	/DT	286.00	328.00	5300	8000	122.0	188.0	193.0	2.0	1.00	4.5600
/DB	/DF	/DT	56.90	89.00	6200	9900	126.0	144.0	146.5	1.0	0.50	0.5250
/DB	/DF	/DT	54.40	83.40	5800	9100	126.0	144.0	146.5	1.0	0.50	0.5250
/DB	/DF	/DT	127.00	162.00	6000	9600	127.0	158.0	160.0	1.0	0.60	1.1500
/DB	/DF	/DT	118.00	153.00	5600	8800	127.0	158.0	160.0	1.0	1.00	1.1500
/DB	/DF	/DT	179.00	232.00	5600	8800	130.0	170.0	174.0	2.0	1.00	2.0900
/DB	/DF	/DT	172.00	222.00	5300	8000	130.0	170.0	174.0	2.0	1.00	2.0900
/DB	/DF	/DT	323.00	370.00	5300	8000	130.0	203.0	208.0	2.0	1.00	5.4000
/DB	/DF	/DT	309.00	354.00	4800	7200	130.0	203.0	208.0	2.0	1.00	5.4000
/DB	/DF	/DT	76.40	119.00	5800	9100	137.0	158.0	160.0	1.0	0.60	0.9110
/DB	/DF	/DT	73.10	112.00	5600	8500	137.0	158.0	160.0	1.0	0.60	0.9110
/DB	/DF	/DT	142.00	200.00	5600	8800	139.0	171.0	175.0	1.5	0.60	1.5200
/DB	/DF	/DT	134.00	189.00	5300	8000	139.0	171.0	175.0	1.5	0.60	1.5200
/DB	/DF	/DT	218.00	274.00	5300	8000	140.0	190.0	194.0	2.0	0.60	3.2600
/DB	/DF	/DT	203.00	260.00	4800	5400	140.0	190.0	194.0	2.0	1.00	3.2600
/DB	/DF	/DT	351.00	402.00	5000	7600	144.0	216.0	223.0	2.5	1.00	6.3000
/DB	/DF	/DT	330.00	378.00	4500	6800	144.0	216.0	223.0	2.5	1.00	6.3000
/DB	/DF	/DT	77.20	125.00	5600	8300	147.0	168.0	170.0	1.0	0.60	0.9730
/DB	/DF	/DT	73.80	117.00	5000	7600	147.0	168.0	170.0	1.0	0.60	0.9730



Angular contact ball bearings

High-speed

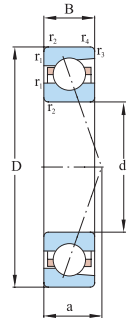


Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	
	mm					kN		r/min		
71928CTA	140	190	24	1.5	1.00	88.30	104.00	6700	10000	34.0
71928ACTA		190	24	1.5	1.00	83.20	97.60	6000	9000	51.0
7028CTA		210	33	2.0	1.00	147.00	158.00	6700	10000	40.0
7028ACTA		210	33	2.0	1.00	142.00	150.00	5600	8500	58.0
71830CTA	150	190	20	1.1	0.60	60.50	79.50	6500	9800	33.0
71830ACTA		190	20	1.1	0.60	57.90	74.60	6000	9000	50.0
71930CTA		210	28	2.0	1.00	118.00	135.00	6300	9500	38.0
71930ACTA		210	28	2.0	1.00	112.00	130.00	5600	8500	56.0
7030CTA	160	225	35	2.1	1.10	168.00	182.00	6000	9000	43.0
7030ACTA		225	35	2.1	1.10	159.00	173.00	5300	8000	62.0
71832CTA		200	20	1.1	0.60	62.00	83.50	6200	9300	34.0
71832ACTA		200	20	1.1	0.60	59.30	78.30	5800	8700	52.0
71932CTA	170	220	28	2.0	1.00	124.00	150.00	6000	9000	40.0
71932ACTA		220	28	2.0	1.00	117.00	141.00	5600	8500	58.0
7032CTA		240	38	2.1	1.10	189.00	207.00	5600	8500	46.0
7032ACTA		240	38	2.1	1.10	178.00	196.00	5000	7500	66.0
71834CTA	180	215	22	1.1	0.60	76.00	102.00	5800	8700	37.0
71834ACTA		215	22	1.1	0.60	72.70	95.70	5300	8000	38.0
71934CTA		230	28	2.0	1.00	128.00	162.00	5600	8500	41.0
71934ACTA		230	28	2.0	1.00	118.00	151.00	5000	7500	61.0
7034CTA	190	260	42	2.1	1.00	212.00	245.00	5300	8000	50.0
7034ACTA		260	42	2.1	1.00	199.00	232.00	4800	7000	71.0
71936CTA		250	33	2.0	1.00	146.00	183.00	5300	8000	45.0
71936ACTA		250	33	2.0	1.00	137.00	171.00	4800	7000	67.0
7036CTA	200	280	46	2.1	1.10	242.00	290.00	5000	7500	54.0
7036ACTA		280	46	2.1	1.10	229.00	275.00	4300	6300	77.0
71938CTA		260	33	2.0	1.00	147.00	190.00	5000	7500	47.0
71938ACTA		260	33	2.0	1.00	139.00	177.00	4500	6700	69.0
7038CTA	210	290	46	2.1	1.10	247.00	300.00	4800	7000	55.0
7038ACTA		290	46	2.1	1.10	234.00	290.00	4100	6100	79.0
71940CTA		280	38	2.1	1.00	198.00	251.00	4800	7000	51.0
71940ACTA		280	38	2.1	1.00	192.00	240.00	4300	6300	75.0

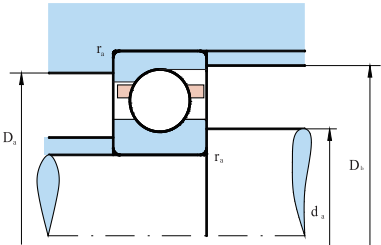
Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	
			kN		r/min		mm					kg
/DB	/DF	/DT	143.00	208.00	5300	8000	149.0	181.0	185.0	1.5	0.60	1.6100
/DB	/DF	/DT	135.00	195.00	4800	7200	149.0	181.0	185.0	1.5	0.60	1.6100
/DB	/DF	/DT	239.00	316.00	5300	8000	150.0	200.0	204.0	2.0	1.00	3.3500
/DB	/DF	/DT	231.00	300.00	4480	6800	150.0	200.0	204.0	2.0	1.00	3.3500
/DB	/DF	/DT	98.30	159.00	5200	7800	157.0	183.0	185.0	1.0	0.60	1.3300
/DB	/DF	/DT	94.10	149.00	4800	7200	157.0	183.0	185.0	1.0	0.60	1.3300
/DB	/DF	/DT	192.00	270.00	5000	7600	160.0	200.0	204.0	2.0	1.00	2.4700
/DB	/DF	/DT	182.00	260.00	4480	6800	160.0	200.0	204.0	2.0	1.00	2.4700
/DB	/DF	/DT	273.00	364.00	4800	7200	162.0	213.0	219.0	2.0	1.00	4.1000
/DB	/DF	/DT	258.00	346.00	4200	6400	162.0	213.0	219.0	2.0	1.00	4.1000
/DB	/DF	/DT	101.00	167.00	4900	7400	167.0	193.0	195.0	1.0	0.60	1.4100
/DB	/DF	/DT	96.30	157.00	4600	6900	167.0	193.0	195.0	1.0	0.60	1.4100
/DB	/DF	/DT	201.00	300.00	4800	7200	170.0	210.0	214.0	2.0	1.00	2.5900
/DB	/DF	/DT	190.00	282.00	4480	6800	170.0	210.0	214.0	2.0	1.00	2.5900
/DB	/DF	/DT	307.00	414.00	4480	6800	172.0	228.0	234.0	2.0	1.00	5.0400
/DB	/DF	/DT	289.00	392.00	4000	6000	172.0	228.0	234.0	2.0	1.00	5.0400
/DB	/DF	/DT	123.00	204.00	4600	6900	177.0	208.0	210.0	1.0	0.60	1.8700
/DB	/DF	/DT	118.00	191.00	4200	6400	177.0	208.0	210.0	1.0	0.60	1.8700
/DB	/DF	/DT	208.00	324.00	4480	6800	180.0	220.0	224.0	2.0	1.00	2.7700
/DB	/DF	/DT	192.00	302.00	4000	6000	180.0	220.0	224.0	2.0	1.00	2.7700
/DB	/DF	/DT	344.00	490.00	4200	6400	182.0	224.0	253.0	2.0	1.00	6.8500
/DB	/DF	/DT	323.00	464.00	3800	5600	182.0	224.0	253.0	2.0	1.00	6.8500
/DB	/DF	/DT	237.00	366.00	4200	6400	190.0	240.0	255.0	2.0	1.00	4.2000
/DB	/DF	/DT	223.00	342.00	3800	5600	190.0	240.0	255.0	2.0	1.00	4.2000
/DB	/DF	/DT	393.00	580.00	4000	6000	192.0	268.0	253.0	2.0	1.00	8.9000
/DB	/DF	/DT	372.00	550.00	3400	5000	192.0	268.0	253.0	2.0	1.00	8.9000
/DB	/DF	/DT	239.00	380.00	4000	6000	200.0	250.0	254.0	2.0	1.00	4.5000
/DB	/DF	/DT	226.00	354.00	3600	5300	200.0	250.0	254.0	2.0	1.00	4.5000
/DB	/DF	/DT	401.00	600.00	3800	5600	202.0	278.0	283.0	2.0	1.00	9.3500
/DB	/DF	/DT	380.00	580.00	3280	4880	202.0	278.0	283.0	2.0	1.00	9.3500
/DB	/DF	/DT	322.00	502.00	3800	5600	212.0	268.0	274.0	2.0	1.00	6.0200
/DB	/DF	/DT	312.00	480.00	3400	5000	212.0	268.0	274.0	2.0	1.00	6.0200



Angular contact ball bearings
High-speed



Designations	Boundary dimensions					Basic load ratings		Limiting speeds		Acting range
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Grease	Oil	a
	mm					kN		r/min		mm
7040CTA	200	310	51	2.1	1.10	296.00	390.00	4500	6700	60.0
7040ACTA		310	51	2.1	1.10	281.00	365.00	4000	6000	85.0
71944CTA	220	300	38	2.1	1.00	208.00	274.00	4300	6300	54.0
71944ACTA		300	38	2.1	1.00	199.00	259.00	3800	5600	80.0
7044CTA		340	56	3.0	1.10	338.00	455.00	4000	6000	66.0
7044ACTA		340	56	3.0	1.10	319.00	440.00	3600	5300	94.0
71948CTA	240	320	38	2.1	1.10	218.00	297.00	4000	6000	56.5
71948ACTA		320	38	2.1	1.10	205.00	277.00	3800	5600	84.0
7048CTA		360	56	3.0	1.10	345.00	490.00	3800	5600	68.0
7048ACTA		360	56	3.0	1.10	325.00	465.00	3200	4800	98.0

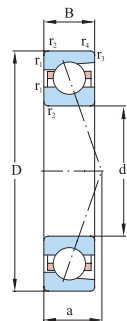


Designations(in pair)			Basic load ratings		Limiting speeds		Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)		d _a	D _a	D _b	r _a	r _b	
DB	DF	DT	Cr	Cor	Grease	Oil	min	max	max	max	max	kg
			kN		r/min		mm					
/DB	/DF	/DT	481.00	780.00	3600	5350	212.0	298.0	303.0	2.0	1.00	12.0000
/DB	/DF	/DT	456.00	730.00	3200	4800	212.0	298.0	303.0	2.0	1.00	12.0000
/DB	/DF	/DT	338.00	548.00	3400	5000	232.0	288.0	294.0	2.0	1.00	6.6000
/DB	/DF	/DT	323.00	518.00	3000	4480	232.0	288.0	294.0	2.0	1.00	6.6000
/DB	/DF	/DT	549.00	910.00	3200	4800	234.0	236.0	333.0	2.5	1.00	16.0000
/DB	/DF	/DT	518.00	880.00	2880	4200	234.0	236.0	333.0	2.5	1.00	16.0000
/DB	/DF	/DT	354.00	594.00	3200	4800	252.0	308.0	314.0	2.0	1.00	7.0300
/DB	/DF	/DT	333.00	554.00	3000	4480	252.0	308.0	314.0	2.0	1.00	7.0030
/DB	/DF	/DT	560.00	980.00	3000	4480	254.0	346.0	353.0	2.5	1.00	17.0000
/DB	/DF	/DT	528.00	930.00	2560	3800	254.0	346.0	353.0	2.5	1.00	17.0000

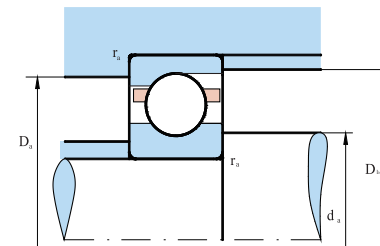


Angular contact ball bearings

Super high-speed



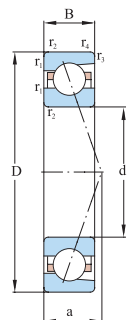
Designations	Boundary dimensions					Basic load ratings		Limiting speeds	Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Oil	
	mm					kN		r/min	mm
71900CETA	10	22	6	0.3	0.10	1.46	0.67	14500	5.0
7000CETA		26	8	0.3	0.15	5.50	2.77	13500	6.0
7200CETA		30	9	0.6	0.15	6.73	2.98	120000	7.0
71901CETA	12	24	6	0.3	0.10	1.53	0.74	130000	5.0
7001CETA		28	8	0.3	0.15	6.11	3.18	120000	7.0
7201CETA		32	10	0.6	0.15	7.66	3.85	104000	8.0
71902CETA	15	28	7	0.3	0.10	3.97	1.90	107000	6.0
7002CETA		32	9	0.3	0.15	6.63	3.70	102000	8.0
7202CETA		35	11	0.6	0.15	8.16	4.46	92000	9.0
71903CETA	17	30	7	0.3	0.10	4.16	2.08	98000	7.0
7003CETA		35	10	0.3	0.15	7.37	4.44	92000	9.0
7203CETA		40	12	0.6	0.30	11.60	6.40	81000	10.0
71904CETA	20	37	9	0.3	0.15	6.05	3.20	81000	8.0
7004CETA		42	12	0.6	0.15	12.70	7.11	78000	10.0
7204CETA		47	14	1.0	0.30	15.60	8.86	69000	12.0
71905CETA	25	42	9	0.3	0.15	6.76	4.00	69000	9.0
7005CETA		47	12	0.6	0.15	13.90	8.59	670000	11.0
7205CETA		52	15	1.0	0.30	17.40	11.10	60000	13.0
71906CETA	30	47	9	0.3	0.15	7.15	4.55	60000	10.0
7006CETA		55	13	0.6	0.30	16.50	11.60	57000	12.0
7206CETA		62	16	1.0	0.30	24.30	15.90	50000	14.0
71907CETA	35	55	10	0.6	0.15	9.75	6.55	51000	11.0
7007CETA		62	14	1.0	0.30	20.80	15.50	50000	14.0
7207CETA		72	17	1.1	0.60	32.00	21.70	43000	16.0
71908CETA	40	62	12	0.6	0.15	12.40	8.50	45000	13.0
7008CETA		68	15	1.0	0.30	21.50	17.90	45000	15.0
7208CETA		80	18	1.0	0.60	35.20	25.80	38000	17.0
71909CETA	45	68	12	0.6	0.15	13.00	9.50	41000	14.0
7009CETA		75	16	1.0	0.30	26.30	21.50	40000	16.0
7209CETA		85	19	1.1	0.60	39.90	29.80	35000	18.0
71910CETA	50	72	12	0.6	0.15	13.50	10.40	38000	14.0
7010CETA		80	16	1.0	0.30	26.80	23.00	37000	17.0



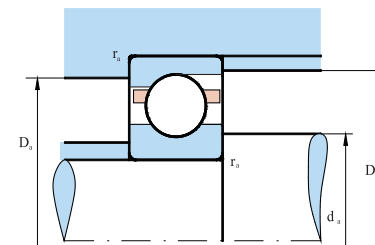
Designations(in pair)			Basic load ratings		Limiting speeds	Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)	d _a min	D _a max	D _b max	r _a max	r _b max	
DB	DF	DT	Cr	Cor	Oil	mm					kg
			kN		r/min						
/DB	/DF	/DT	2.37	1.34	116000	12.0	20.0	20.8	0.3	0.10	0.0090
/DB	/DF	/DT	9.35	5.54	108000	12.0	24.0	24.4	0.3	0.15	0.0180
/DB	/DF	/DT	10.90	5.96	96000	15.0	25.0	28.0	0.6	0.30	0.0290
/DB	/DF	/DT	2.48	1.48	104000	14.0	22.0	22.8	0.3	0.10	0.0100
/DB	/DF	/DT	9.93	6.36	96000	14.0	26.0	26.4	0.3	0.15	0.0200
/DB	/DF	/DT	12.40	7.90	83000	17.0	27.0	30.0	0.6	0.30	0.0360
/DB	/DF	/DT	6.45	3.80	86000	17.0	26.0	26.8	0.3	0.10	0.0150
/DB	/DF	/DT	10.80	7.40	82000	17.0	30.0	30.4	0.3	0.15	0.0280
/DB	/DF	/DT	13.30	8.92	74000	20.0	30.0	33.0	0.6	0.30	0.0450
/DB	/DF	/DT	6.67	4.16	78000	19.0	28.0	28.8	0.3	0.10	0.0170
/DB	/DF	/DT	12.00	8.88	74000	19.0	33.0	33.4	0.3	0.15	0.0370
/DB	/DF	/DT	18.80	12.80	65000	22.0	35.0	38.0	0.6	0.30	0.0640
/DB	/DF	/DT	9.83	6.40	65000	22.0	35.0	35.8	0.3	0.00	0.0350
/DB	/DF	/DT	20.60	14.20	62000	25.0	37.0	40.0	0.6	0.30	0.0650
/DB	/DF	/DT	25.30	17.70	55000	26.0	41.0	45.0	1.0	0.30	0.1030
/DB	/DF	/DT	11.00	8.00	55000	27.0	40.0	40.8	0.3	0.10	0.0420
/DB	/DF	/DT	22.60	17.20	54000	30.0	42.0	45.0	0.6	0.15	0.0750
/DB	/DF	/DT	28.30	22.20	48000	31.0	46.0	50.0	1.0	0.30	0.1240
/DB	/DF	/DT	11.60	9.10	48000	32.0	45.0	45.8	0.3	0.10	0.0480
/DB	/DF	/DT	26.80	23.20	46000	36.0	49.0	53.0	1.0	0.30	0.1100
/DB	/DF	/DT	39.50	31.80	40000	36.0	56.0	60.0	1.0	0.30	0.1950
/DB	/DF	/DT	15.80	13.10	41000	40.0	50.0	53.8	0.6	0.10	0.0740
/DB	/DF	/DT	33.80	31.00	40000	41.0	56.0	60.0	1.0	0.30	0.1500
/DB	/DF	/DT	52.00	43.40	34000	42.0	65.0	70.0	1.0	0.30	0.2820
/DB	/DF	/DT	20.10	17.00	36000	45.0	57.0	60.1	0.6	0.15	0.1100
/DB	/DF	/DT	34.90	35.80	36000	46.0	62.0	66.0	1.0	0.30	0.1900
/DB	/DF	/DT	57.20	51.60	30000	47.0	73.0	75.0	1.0	0.60	0.3710
/DB	/DF	/DT	21.10	19.00	33000	50.0	63.0	66.8	0.6	0.15	0.1300
/DB	/DF	/DT	42.70	43.00	32000	51.0	69.0	73.0	1.0	0.30	0.2300
/DB	/DF	/DT	64.80	59.60	28000	52.0	78.0	80.0	1.0	0.60	0.4160
/DB	/DF	/DT	21.90	20.80	30000	55.0	67.0	70.8	0.6	0.15	0.1500
/DB	/DF	/DT	43.50	46.00	30000	56.0	74.0	78.0	1.0	0.30	0.2500

Angular contact ball bearings

Super high-speed



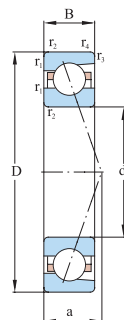
Designations	Boundary dimensions					Basic load ratings		Limiting speeds	Acting range
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Oil	a
	mm					kN		r/min	mm
7210CETA	50	90	20	1.1	0.60	44.90	34.00	33000	20.0
71911CETA	55	80	13	1.0	0.60	19.50	14.60	34000	16.0
7011CETA		90	18	1.1	0.60	34.30	30.00	33000	19.0
7211CETA		100	21	1.5	0.60	55.40	42.80	30000	21.0
71912CETA	60	85	13	1.0	0.60	19.90	15.30	32000	16.0
7012CETA		95	18	1.1	0.60	40.30	34.50	31000	20.0
7212CETA		110	22	1.5	0.60	67.60	53.00	27000	23.0
71913CETA	65	90	13	1.0	0.60	20.80	17.00	30000	17.0
7013CETA		100	18	1.1	0.60	41.60	37.50	29000	20.0
7213CETA		120	23	1.5	0.60	66.00	56.00	25000	24.0
71914CETA	70	100	16	1.0	0.60	34.50	34.00	27000	19.0
7014CETA		110	20	1.1	0.60	52.00	45.50	27000	22.0
7214CETA		125	24	1.5	0.60	79.30	64.00	24000	25.0
71915CETA	75	105	16	1.0	0.60	35.80	37.50	26000	20.0
7015CETA		115	20	1.1	0.60	52.70	49.00	24000	23.0
7215CETA		130	25	1.5	0.60	83.20	69.50	22000	26.0
71916CETA	80	110	16	1.0	0.60	36.40	39.00	24000	21.0
7016CETA		125	22	1.1	0.60	65.00	61.00	22000	25.0
7216CETA		140	26	2.0	1.00	97.50	81.50	21000	28.0
71917CETA	85	120	18	1.1	0.60	46.20	48.00	22000	23.0
7017CETA		130	22	1.1	0.60	67.60	65.50	21000	26.0
7217CETA		150	28	2.0	1.00	99.50	88.00	19800	30.0
71918CETA	90	125	18	1.1	0.60	47.50	51.00	21000	23.0
7018CETA		140	24	1.5	0.60	79.30	76.50	20000	28.0
7218CETA		160	30	2.0	1.00	127.00	112.00	18400	32.0
71919CETA	95	130	18	1.1	0.60	49.40	55.00	20000	24.0
7019CETA		145	24	1.5	0.60	81.90	80.00	19000	28.0
7219CETA		170	32	2.1	1.00	138.00	120.00	17400	34.0
71920CETA	100	140	20	1.1	0.60	60.50	65.50	19000	26.0
7020CETA		150	24	1.5	0.60	83.20	85.00	18400	29.0
7220CETA		180	32	2.1	1.00	156.00	137.00	16400	36.0
71921CETA	105	145	20	1.1	0.60	61.80	69.50	18400	27.0



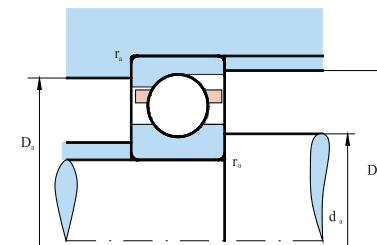
Designations(in pair)			Basic load ratings		Limiting speeds	Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)	d _a min	D _a max	D _b max	r _a max	r _b max	
DB	DF	DT	Cr	Cor	Oil	mm					kg
			kN		r/min						
/DB	/DF	/DT	72.90	68.00	26400	57.0	83.0	85.0	1.0	0.60	0.4600
/DB	/DF	/DT	31.70	29.20	27000	61.0	74.0	78.0	1.0	0.30	0.1800
/DB	/DF	/DT	55.70	60.00	26000	62.0	83.0	86.0	1.0	0.60	0.3700
/DB	/DF	/DT	90.00	85.60	24000	64.0	91.0	95.0	1.5	0.60	0.5910
/DB	/DF	/DT	32.30	30.60	25600	66.0	79.0	83.0	1.0	0.30	0.1900
/DB	/DF	/DT	65.50	69.00	25000	67.0	88.0	91.0	1.0	0.60	0.4000
/DB	/DF	/DT	110.00	106.00	21400	69.0	101.0	105.0	1.5	0.60	0.8000
/DB	/DF	/DT	33.80	34.00	24000	71.0	84.0	88.0	1.0	0.30	0.2100
/DB	/DF	/DT	67.60	75.00	32200	72.0	93.0	96.0	1.0	0.60	0.4200
/DB	/DF	/DT	107.00	112.00	20000	74.0	111.0	115.0	1.5	0.60	1.0300
/DB	/DF	/DT	56.00	68.00	21400	76.0	94.0	98.0	1.0	0.30	0.3300
/DB	/DF	/DT	84.50	91.00	21400	77.0	103.0	106.0	1.0	0.60	0.5900
/DB	/DF	/DT	129.00	128.00	19000	79.0	116.0	120.0	1.5	0.60	1.1000
/DB	/DF	/DT	58.20	75.00	21000	81.0	99.0	103.0	1.0	0.30	0.3500
/DB	/DF	/DT	85.60	98.00	19000	82.0	108.0	111.0	1.0	0.60	0.6200
/DB	/DF	/DT	135.00	139.00	17400	84.0	121.0	125.0	1.5	0.60	1.2000
/DB	/DF	/DT	59.10	78.10	19000	86.0	104.0	108.0	1.0	0.30	0.3700
/DB	/DF	/DT	106.00	122.00	17400	87.0	118.0	121.0	1.0	0.60	0.8500
/DB	/DF	/DT	158.00	163.00	16500	90.0	130.0	134.0	2.0	1.00	1.4500
/DB	/DF	/DT	75.10	96.00	17300	92.0	113.0	115.0	1.0	0.60	0.5300
/DB	/DF	/DT	110.00	131.00	16500	92.0	123.0	126.0	1.0	0.60	0.8900
/DB	/DF	/DT	162.00	176.00	15300	95.0	140.0	144.0	2.0	1.00	1.8000
/DB	/DF	/DT	77.20	102.00	16500	97.0	118.0	120.0	1.0	0.60	0.5500
/DB	/DF	/DT	129.00	153.00	15600	99.0	131.0	135.0	1.5	0.60	1.1500
/DB	/DF	/DT	206.00	224.00	14400	100.0	150.0	154.0	2.0	1.00	2.2500
/DB	/DF	/DT	80.30	110.00	15600	102.0	123.0	125.0	1.0	0.60	0.5800
/DB	/DF	/DT	133.00	160.00	14900	104.0	136.0	140.0	1.5	0.60	1.2000
/DB	/DF	/DT	224.00	240.00	13600	107.0	158.0	163.0	2.0	1.00	2.7000
/DB	/DF	/DT	98.30	131.00	14900	107.0	133.0	135.0	1.0	0.60	0.8000
/DB	/DF	/DT	135.00	170.00	14400	109.0	141.0	145.0	1.5	0.60	1.2500
/DB	/DF	/DT	253.00	274.00	12900	112.0	168.0	173.0	2.0	1.00	3.2500
/DB	/DF	/DT	100.00	139.00	14000	112.0	138.0	140.0	1.0	0.60	0.8200

Angular contact ball bearings

Super high-speed



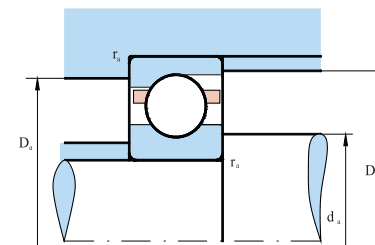
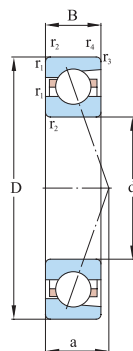
Designations	Boundary dimensions					Basic load ratings		Limiting speeds	Acting range a
	d	D	B	r _{1,2} min	r _{3,4} min	Cr	Cor	Oil	
	mm					kN		r/min	
7021CETA	105	160	26	2.0	1.00	95.60	96.50	17400	31.0
7221CETA		190	36	2.1	1.10	172.00	153.00	15600	38.0
71922CETA	110	150	20	1.1	0.60	62.40	72.00	17700	27.0
7022CETA		170	28	2.0	1.00	111.00	108.00	16400	33.0
7222CETA		200	38	2.1	1.10	178.00	166.00	14800	40.0
71924CETA	120	165	22	1.1	0.60	78.00	81.50	16100	30.0
7024CETA		180	28	2.0	1.00	114.00	122.00	15300	34.0
7224CETA		215	40	2.1	1.10	199.00	193.00	13700	43.0
71926CETA	130	180	24	1.5	0.60	92.30	108.00	14800	33.0
7026CETA		200	33	2.0	1.00	148.00	156.00	13900	39.0
7226CETA		230	40	3.0	1.10	216.00	224.00	12800	44.0



Designations(in pair)			Basic load ratings		Limiting speeds	Abutment and fillet dimensions					Mass
back-to-back face-to-face tandem			(in pair)		(in pair)	d _a min	D _a max	D _b max	r _a max	r _b max	
DB	DF	DT	Cr	Cor	Oil						
			kN		r/min	mm					kg
/DB	/DF	/DT	155.00	193.00	13600	115.0	150.0	154.0	2.0	1.00	1.6000
/DB	/DF	/DT	279.00	306.00	12200	117.0	178.0	183.0	2.0	1.00	3.8500
/DB	/DF	/DT	101.00	144.00	13900	117.0	143.0	145.0	1.0	0.60	0.8600
/DB	/DF	/DT	180.00	216.00	12900	120.0	160.0	164.0	2.0	1.00	1.9500
/DB	/DF	/DT	289.00	332.00	11600	122.0	188.0	193.0	2.0	1.00	4.5500
/DB	/DF	/DT	127.00	183.00	12600	127.0	158.0	160.0	1.0	0.60	1.1500
/DB	/DF	/DT	185.00	244.00	12000	130.0	170.0	174.0	2.0	1.00	2.1000
/DB	/DF	/DT	323.00	386.00	10700	132.0	203.0	208.0	2.0	1.00	5.4000
/DB	/DF	/DT	150.00	216.00	11600	139.0	171.0	175.0	1.5	0.60	1.5500
/DB	/DF	/DT	240.00	312.00	10900	140.0	190.0	194.0	2.0	1.00	3.2000
/DB	/DF	/DT	351.00	448.00	10000	144.0	216.0	223.0	2.5	1.00	6.3000



Angular contact ball bearings Magneto angular contact ball bearings

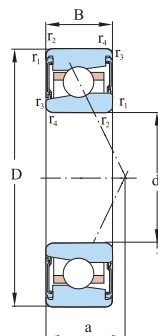


Designations		Boundary dimensions				
E series	EN series	d	D	B	r _{1, 2} min	r _{3, 4} min
mm						
E4	EN4	4	16	5	0.2	0.10
E5	EN5	5	16	5	0.2	0.10
E6	EN6	6	21	7	0.3	0.15
E7	EN7	7	22	7	0.3	0.15
E8	EN8	8	24	7	0.3	0.15
E9	EN9	9	28	8	0.3	0.15
E10	EN10	10	28	8	0.3	0.15
E11	EN11	11	32	7	0.3	0.15
E12	EN12	12	32	7	0.3	0.15
E13	EN13	13	30	7	0.3	0.15
–	EN14	14	35	8	0.3	0.15
E15	EN15	15	35	8	0.3	0.15
–	EN16	16	38	10	0.6	0.20
–	EN17	17	44	11	0.6	0.30
–	EN18	18	40	9	0.6	0.20
E19	EN19	19	40	9	0.6	0.20
E20	EN20	20	47	12	1.0	0.60

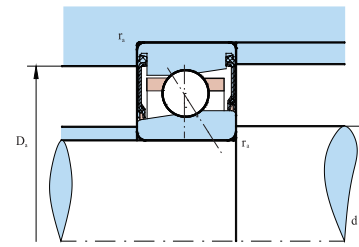
Basic load ratings		Boundary dimensions		Abutment and fillet dimensions			Mass
Cr	Cor	Grease	Oil	d _a min	D _a max	r _a max	
kN		r/min		mm			kg
1.65	0.29	34000	40000	5.2	14.8	0.2	0.0050
1.65	0.03	34000	40000	6.2	14.8	0.2	0.0040
2.49	0.45	30000	36000	8.0	19.0	0.3	0.0110
2.49	0.45	30000	36000	9.0	20.0	0.3	0.0130
3.45	0.65	28000	34000	10.0	22.0	0.3	0.0140
4.55	0.88	24000	30000	11.0	26.0	0.3	0.0220
4.55	0.88	24000	30000	12.0	26.0	0.3	0.0210
4.40	0.85	22000	26000	13.0	30.0	0.3	0.0290
4.40	0.85	22000	26000	14.0	30.0	0.3	0.0280
4.40	0.85	22000	26000	15.0	28.0	0.3	0.0210
5.80	1.15	19000	22000	16.0	33.0	0.3	0.0350
5.80	1.15	17000	22000	17.0	33.0	0.3	0.0340
6.90	1.38	17000	22000	20.0	34.0	0.4	0.0490
7.35	1.50	16000	19000	21.0	40.0	0.6	0.0800
5.05	1.03	17000	20000	22.0	36.0	0.4	0.0510
50.50	1.03	16000	19000	23.0	36.0	0.4	0.0490
11.00	2.38	16000	19000	25.0	42.0	1.0	0.0890



Angular contact ball bearings
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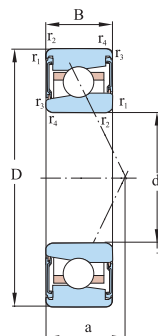
Designations	Boundary dimensions				Acting range a
	d	D	B	r _{1, 2} min	
	mm				
B71900CTA-2RZ	10	22	6	0.3	5
B71900ACTA-2RZ		22	6	0.3	7
B7000CTA-2RZ		26	8	0.3	6
B7000ACTA-2RZ		26	8	0.3	8
B71901CTA-2RZ	12	24	6	0.3	5
B71901ACTA-2RZ		24	6	0.3	7
B7001CTA-2RZ		28	8	0.3	7
B7001ACTA-2RZ		28	8	0.3	9
B71902CTA-2RZ	15	28	7	0.3	6
B71902ACTA-2RZ		28	7	0.3	9
B7002CTA-2RZ		32	9	0.3	8
B7002ACTA-2RZ		32	9	0.3	10
B71903CTA-2RZ	17	30	7	0.3	7
B71903ACTA-2RZ		30	7	0.3	9
B7003CTA-2RZ		35	10	0.3	9
B7003ACTA-2RZ		35	10	0.3	11
B71904CTA-2RZ	20	37	9	0.3	8
B71904ACTA-2RZ		37	9	0.3	11
B7004CTA-2RZ		42	12	0.6	10
B7004ACTA-2RZ		42	12	0.6	13
B71905CTA-2RZ	25	42	9	0.3	9
B71905ACTA-2RZ		42	9	0.3	12
B7005CTA-2RZ		47	12	0.6	11
B7005ACTA-2RZ		47	12	0.6	14
B71906CTA-2RZ	30	47	9	0.3	10
B71906ACTA-2RZ		47	9	0.3	14
B7006CTA-2RZ		55	13	1	12
B7006ACTA-2RZ		55	13	1	16
B71907CTA-2RZ	35	55	10	0.6	11
B71907ACTA-2RZ		55	10	0.6	16
B7007CTA-2RZ		62	14	1	14
B7007ACTA-2RZ		62	14	1	18



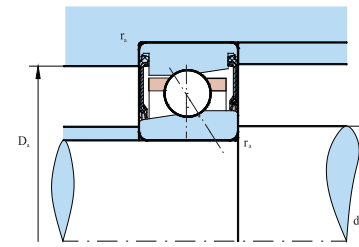
Basic load ratings		Limiting speeds	Abutment and fillet dimensions			Mass
Cr	Cor	Grease	d _a min	D _a max	r _a max	
kN		r/min	mm			
1960	1100	90000	13	19.5	0.3	0.01
1860	1040	75000	13	19.5	0.3	0.01
2750	1600	80000	14	22	0.3	0.02
2600	1500	67000	14	22	0.3	0.02
2040	1200	80000	15	21.5	0.3	0.01
1930	1140	67000	15	21.5	0.3	0.01
2700	1630	70000	16.5	24.5	0.3	0.022
2550	1530	60000	16.5	24.5	0.3	0.022
2800	1760	67000	18	25.5	0.3	0.015
2650	1660	56000	18	25.5	0.3	0.015
3750	2450	60000	19	29	0.3	0.033
3550	2320	50000	19	29	0.3	0.033
2900	1900	60000	20	27.5	0.3	0.017
2700	1800	50000	20	27.5	0.3	0.017
3800	2650	53000	21	32	0.3	0.044
3650	2500	45000	21	32	0.3	0.044
3900	2850	50000	24	33.5	0.3	0.041
3750	2700	43000	24	33.5	0.3	0.041
6200	4550	45000	25	37	0.6	0.074
5850	4300	38000	25	37	0.6	0.074
4250	3350	43000	29	38.5	0.3	0.047
4000	3150	36000	29	38.5	0.3	0.047
6300	4900	38000	30	42	0.6	0.085
6000	4650	34000	30	42	0.6	0.085
6400	5200	36000	34	43.5	0.3	0.047
6000	4900	32000	34	43.5	0.3	0.047
8800	7100	32000	36	49	1	0.121
8300	6700	28000	36	49	1	0.121
6950	6200	32000	40	51.5	0.6	0.076
6550	5850	26000	40	51.5	0.6	0.076
9300	8300	28000	41	56	1	0.166
8800	7800	24000	41	56	1	0.166



Angular contact ball bearings sealed

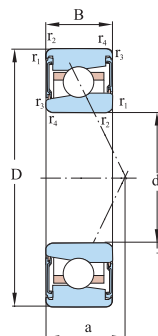


Designations	Boundary dimensions				Acting range a
	d	D	B	r _{1, 2} min	
	mm				
B71908CTA-2RZ	40	62	12	0.6	13
B71908ACTA-2RZ		62	12	0.6	18
B7008CTA-2RZ		68	15	1	15
B7008ACTA-2RZ		68	15	1	20
B71909CTA-2RZ	45	68	12	0.6	14
B71909ACTA-2RZ		68	12	0.6	19
B7009CTA-2RZ		75	16	1	16
B7009ACTA-2RZ		75	16	1	22
B71910CTA-2RZ	50	72	12	0.6	14
B71910ACTA-2RZ		72	12	0.6	20
B7010CTA-2RZ		80	16	1	17
B7010ACTA-2RZ		80	16	1	23
B71911CTA-2RZ	55	80	13	1	16
B71911ACTA-2RZ		80	13	1	22
B7011CTA-2RZ		90	18	1.1	19
B7011ACTA-2RZ		90	18	1.1	26
B71912CTA-2RZ	60	85	13	1	16
B71912ACTA-2RZ		85	13	1	23
B7012CTA-2RZ		95	18	1.1	19
B7012ACTA-2RZ		95	18	1.1	27
B71913CTA-2RZ	65	90	13	1	17
B71913ACTA-2RZ		90	13	1	25
B7013CTA-2RZ		100	18	1.1	20
B7013ACTA-2RZ		100	18	1.1	28
B71914CTA-2RZ	70	100	16	1	19
B71914ACTA-2RZ		100	16	1	28
B7014CTA-2RZ		110	20	1.1	22
B7014ACTA-2RZ		110	20	1.1	31
B71915CTA-2RZ	75	105	16	1	20
B71915ACTA-2RZ		105	16	1	29
B7015CTA-2RZ		115	20	1.1	23
B7015ACTA-2RZ		115	20	1.1	32

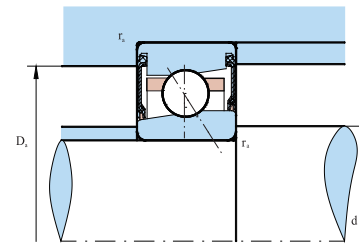


Basic load ratings		Limiting speeds	Abutment and fillet dimensions			Mass
Cr	Cor	Grease	d _a min	D _a max	r _a max	
kN		r/min	mm			
7200	6950	28000	45	58.5	0.6	0.122
6800	6400	24000	45	58.5	0.6	0.122
10000	9300	26000	46	62	1	0.208
9300	8650	22000	46	62	1	0.208
10000	9650	24000	50	63.5	0.6	0.132
9500	9000	22000	50	63.5	0.6	0.132
12900	12200	24000	51	69	1	0.273
12200	11400	20000	51	69	1	0.272
10400	10200	22000	55	67.5	0.6	0.133
9800	9650	20000	55	67.5	0.6	0.133
13400	13200	22000	56	74	1	0.296
12500	12200	18000	56	74	1	0.295
13400	13700	20000	60	75.5	0.6	0.198
12700	12700	18000	60	75.5	0.6	0.198
18600	19000	19000	62	83	1	0.411
17600	17600	17000	62	83	1	0.41
14000	14600	19000	65	80.5	0.6	0.22
13200	13400	17000	65	80.5	0.6	0.22
19300	20000	18000	67	88	1	0.453
18300	19000	15000	67	88	1	0.453
14300	15300	18000	70	85.5	0.6	0.226
13400	14300	15000	70	85.5	0.6	0.226
20000	21600	17000	72	93	1	0.468
19000	20000	15000	72	93	1	0.468
18300	20000	16000	76	94.5	0.6	0.354
17300	18600	14000	76	94.5	0.6	0.353
26000	28000	16000	77	102	1	0.644
24500	26000	13000	77	102	1	0.643
19000	21200	16000	81	99.5	0.6	0.38
17600	20000	13000	81	99.5	0.6	0.379
26500	29000	15000	82	107	1	0.68
25000	27000	13000	82	107	1	0.679

Angular contact ball bearings
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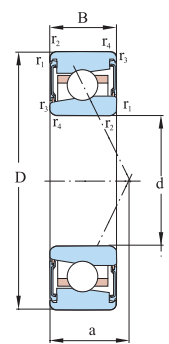
Designations	Boundary dimensions				Acting range a
	d	D	B	r _{1, 2} min	
	mm				
B71916CTA-2RZ	80	110	16	1	21
B71916ACTA-2RZ		110	16	1	30
B7016CTA-2RZ		125	22	1.1	25
B7016ACTA-2RZ		125	22	1.1	35
B71917CTA-2RZ	85	120	18	1.1	23
B71917ACTA-2RZ		120	18	1.1	33
B7017CTA-2RZ		130	22	1.1	25
B7017ACTA-2RZ		130	22	1.1	36
B71918CTA-2RZ	90	125	18	1.1	23
B71918ACTA-2RZ		125	18	1.1	34
B7018CTA-2RZ		140	24	1.5	27
B7018ACTA-2RZ		140	24	1.5	39
B71919CTA-2RZ	95	130	18	1.1	24
B71919ACTA-2RZ		130	18	1.1	35
B7019CTA-2RZ		145	24	1.5	28
B7019ACTA-2RZ		145	24	1.5	40
B71920CTA-2RZ	100	140	20	1.1	26
B71920ACTA-2RZ		140	20	1.1	38
B7020CTA-2RZ		150	24	1.5	29
B7020ACTA-2RZ		150	24	1.5	41
B71921CTA-2RZ	105	145	20	1.1	27
B71921ACTA-2RZ		145	20	1.1	39
B7021CTA-2RZ		160	26	2	31
B7021ACTA-2RZ		160	26	2	44
B71922CTA-2RZ	110	150	20	1.1	27
B71922ACTA-2RZ		150	20	1.1	40
B7022CTA-2RZ		170	28	2	33
B7022ACTA-2RZ		170	28	2	47
B71924CTA-2RZ	120	165	22	1.1	30
B71924ACTA-2RZ		165	22	1.1	44
B7024CTA-2RZ		180	28	2	34
B7024ACTA-2RZ		180	28	2	49



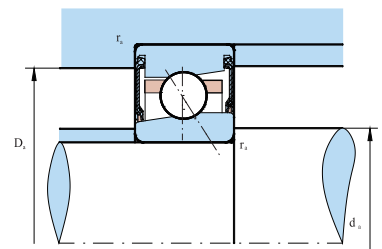
Basic load ratings		Limiting speeds	Abutment and fillet dimensions			Mass
Cr	Cor	Grease	d _a min	D _a max	r _a max	
kN		r/min	mm			
21200	24000	15000	86	104	0.6	0.385
19600	22400	13000	86	104	0.6	0.385
31500	34500	14000	88	117	1	0.931
30000	32500	12000	88	117	1	0.929
22000	26000	14000	92	114	0.6	0.58
20400	24500	12000	92	114	0.6	0.579
32000	36000	13000	93	122	1	0.975
30000	33500	11000	93	122	1	0.974
23600	28500	13000	97	119	0.6	0.589
22400	26500	11000	97	119	0.6	0.588
37500	43000	12000	100	131	1.5	1.28
35500	40000	10000	100	131	1.5	1.27
24500	30000	12000	102	124	0.6	0.615
22800	28000	10000	102	124	0.6	0.614
38000	44000	11000	105	136	1.5	1.33
35500	41500	9500	105	136	1.5	1.33
29000	36000	11000	107	133	0.6	0.861
27500	33500	9500	107	133	0.6	0.859
38000	45500	11000	110	141	1.5	1.39
36000	42500	9000	110	141	1.5	1.38
30000	38000	11000	112	138	0.6	0.897
28000	35500	9000	112	138	0.6	0.87
49000	58500	10000	116	150	2	1.71
46500	54000	8500	116	150	2	1.71
34500	44000	10000	117	143	0.6	0.933
32500	40500	9000	117	143	0.6	0.932
50000	60000	9500	121	159	2	2.17
46500	56000	8000	121	159	2	2.17
36500	48000	9000	128	157	0.6	1.3
34000	45000	8000	128	157	0.6	1.3
51000	63000	8500	131	169	2	2.33
48000	58500	7500	131	169	2	2.33



Angular contact ball bearings sealed



Designations	Boundary dimensions				Acting range a
	d	D	B	r _{1, 2} min	
	mm				
B71926CTA-2RZ	130	180	24	1.5	33
B71926ACTA-2RZ		180	24	1.5	48
B7026CTA-2RZ		200	33	2	39
B7026ACTA-2RZ		200	33	2	55



Basic load ratings		Limiting speeds	Abutment and fillet dimensions			Mass
Cr	Cor	Grease	d _a min	D _a max	r _a max	
kN		r/min	mm			kg
41500	56000	8500	139	171	0.6	1.71
39000	52000	7000	139	171	0.6	1.71
65500	83000	7500	142	189	2	3.52
62000	78000	6700	142	189	2	3.51

