

7000 Series angular contact ball bearings

Single Row Angular Contact Ball Bearings

7000 Series angular contact ball bearings



Bearing Numbers				Principal dimensions(mm)				Basic load ratings(N)		Basic load ratings(kgf)		Value	Limiting Speed (rpm)			Distance of action point(mm)			Abutment and fillet dimensions			Weight	Basic load ratings(duplex bearing) (N)		Basic load ratings(duplex bearing) (kgf)		Limiting Speed(duplex bearing) (rpm)		Distance of action point (duplex bearing)(aD)		Installation dimensions(duplex bearing)		
Single row	DB	DF	DT	d	D	B	r(min)	r1(min)	Cr	Cor	Cr	Cor	fo	Grease	Oil	a	da(min)	Da(max)	ra(max)	(kg)	Cr	Cor	Cr	Cor	Grease	Oil	back-to-back arrangement	face-to-face arrangement	db(min)	Db(max)	rb(max)		
7000A	7000DB	7000DF	7000DT	10	26	8	0.3	0.15	5350	2600	550	266	13.2	32000	43000	9.2	12.5	23.5	0.3	0.019	8750	5200	890	530	24000	34000	18.4	2.4	-	11.2	24.8	0.15	
7000C	7000DB	7000DF	7000DT	10	26	8	0.3	0.15	5300	2490	540	254	12.6	45000	63000	6.4	12.5	23.5	0.3	0.021	8650	5000	880	510	36000	50000	12.8	3.2	-	24.8	0.15		
7001A	7001DB	7001DF	7001DT	12	28	8	0.3	0.15	5800	2980	590	305	13.8	28000	38000	9.8	14.5	25.5	0.3	0.021	9400	5950	955	610	22000	30000	19.5	3.5	13.2	26.8	0.15		
7001C	7001DB	7001DF	7001DT	12	28	8	0.3	0.15	5800	2900	590	296	13.5	40000	56000	6.7	14.5	25.5	0.3	0.024	9400	5800	960	590	32000	45000	13.4	2.6	-	26.8	0.15		
7002A	7002DB	7002DF	7002DT	15	32	9	0.3	0.15	6100	3450	625	350	14.5	24000	32000	11.3	17.5	29.5	0.3	0.03	9950	6850	1010	700	19000	26000	22.6	4.6	16.2	30.8	0.15		
7002C	7002DB	7002DF	7002DT	15	32	9	0.3	0.15	6250	3400	635	345	14.1	34000	48000	7.6	17.5	29.5	0.3	0.034	10100	6750	1030	690	28000	38000	15.3	2.7	-	30.8	0.15		
7003A	7003DB	7003DF	7003DT	17	35	10	0.3	0.15	6400	3800	655	390	14.9	22000	30000	12.5	19.5	32.5	0.3	0.04	10400	7650	1060	780	17000	24000	25	5	18.2	33.8	0.15		
7003C	7003DB	7003DF	7003DT	17	35	10	0.3	0.15	6600	3800	675	390	14.5	32000	43000	8.5	19.5	32.5	0.3	0.044	10700	7600	1100	775	26000	34000	17	3	-	33.8	0.15		
7004A	7004DB	7004DF	7004DT	20	42	12	0.6	0.3	10800	6600	1110	670	14.5	18000	24000	14.9	25	37	0.6	0.06	13200	13200	1800	1340	15000	20000	29.9	5.9	22.5	39.5	0.3		
7004C	7004DB	7004DF	7004DT	20	42	12	0.6	0.3	11300	6550	1130	665	14	26000	36000	10.1	25	37	0.6	0.076	18000	13100	1840	1330	20000	30000	20.3	3.7	-	39.5	0.3		
7005A	7005DB	7005DF	7005DT	25	47	12	0.6	0.3	11000	7400	1150	750	15.1	16000	22000	16.4	30	42	0.6	0.079	18300	14800	1870	1510	13000	17000	32.8	8.8	27.5	44.5	0.3		
7005C	7005DB	7005DF	7005DT	25	47	12	0.6	0.3	11700	7400	1190	755	14.7	22000	30000	10.8	30	42	0.6	0.089	19000	14800	1940	1510	18000	26000	21.6	2.4	-	44.5	0.3		
7006A	7006DB	7006DF	7006DT	30	55	13	1	0.6	14500	10100	1480	1030	15.3	13000	18000	18.8	36	49	1	0.116	23600	20200	2410	2060	11000	15000	37.5	11.5	35	50	0.6		
7006C	7006DB	7006DF	7006DT	30	55	13	1	0.6	15100	10300	1540	1050	14.9	19000	26000	12.2	36	49	1	0.134	24600	20500	2510	2090	15000	22000	24.4	1.6	-	50	0.6		
7007A	7007DB	7007DF	7007DT	35	62	14	1	0.6	18300	13400	1870	1370	15.4	12000	16000	21	41	56	1	0.153	29700	26800	3050	2740	9500	13000	42	14	40	57	0.6		
7007C	7007DB	7007DF	7007DT	35	62	14	1	0.6	19100	13700	1950	1390	15	17000	22000	13.5	41	56	1	0.173	31000	27300	3150	2790	13000	19000	27	1	-	57	0.6		
7008A	7008DB	7008DF	7008DT	40	70	16	1	0.6	20600	15900	2100	1620	15.4	15000	20000	14.7	46	62	1	0.212	33500	32000	3400	3250	12000	17000	29.5	0.5	-	63	0.6		
7008C	7008DB	7008DF	7008DT	40	70	16	1	0.6	20600	15900	2100	1620	15.4	15000	20000	14.7	46	62	1	0.212	33500	32000	3400	3250	12000	17000	29.5	0.5	-	63	0.6		
7009A	7009DB	7009DF	7009DT	45	75	16	1	0.6	23100	18700	2360	1910	15.7	9500	13000	25.3	51	69	1	0.25	37500	37500	3850	3800	7500	10000	50.6	18.6	50	70	0.6		
7009C	7009DB	7009DF	7009DT	45	75	16	1	0.6	24400	19300	2490	1960	15.4	14000	19000	16	51	69	1	0.269	39500	38500	4050	3950	11000	15000	32.1	0.1	-	70	0.6		
7010A	7010DB	7010DF	7010DT	50	80	16	1	0.6	24500	21100	2500	2150	16	8500	12000	26.8	56	74	1	0.263	40000	42000	4050	4300	7100	9500	53.5	21.5	55	75	0.6		
7010C	7010DB	7010DF	7010DT	50	80	16	1	0.6	26000	21900	2650	2230	15.9	12000	17000	16.7	56	74	1	0.293	42000	44000	4300	4450	10000	14000	33.4	1.4	-	75	0.6		
7011A	7011DB	7011DF	7011DT	55	90	18	1.1	0.6	32500	27700	3300	2830	15.8	7500	11000	29.9	62	83	1	0.391	52500	55500	5350	5650	6300	8500	59.9	23.9	60	85	0.6		
7011C	7011DB	7011DF	7011DT	55	90	18	1.1	0.6	34000	28600	3350	2920	15.4	11000	15000	18.7	62	83	1	0.43	55500	57500	5650	5850	9000	12000	37.4	1.4	-	85	0.6		
7012A	7012DB	7012DF	7012DT	60	95	18	1.1	0.6	33000	29500	3350	3000	16	7100	10000	31.4	67	88	1	0.417	53500	59000	5450	6000	6900	8000	62.7	26.7	65	90	0.6		
7012C	7012DB	7012DF	7012DT	60	95	18	1.1	0.6	35000	30500	3600	3150	15.6	10000	14000	19.4	67	88	1	0.46	57000	61500	5800	6250	8500	12000	38.8	2.8	-	90	0.6		
7013A	7013DB	7013DF	7013DT	65	100	18	1.1	0.6	35000	33000	3550	3350	16.2	6700	9500	32.8	72	93	1	0.455	56500	65500	5750	6700	5600	7500	65.6	29.6	70	95	0.6		
7013C	7013DB	7013DF	7013DT	65	100	18	1.1	0.6	37000	34000	3800	3500	15.9	10000	13000	20	72	93	1	0.493	60500	68500	6150	7000	8000	11000	40.1	4.1	-	95	0.6		
7014A	7014DB	7014DF	7014DT	70	110	20	1.1	0.6	44000	41500	4500	4200	16	6300	8500	36	77	103	1	0.625	71500	82500	7300	8450	5000	6700	72	32	75	105	0.6		
7014C	7014DB	7014DF	7014DT	70	110	20	1.1	0.6	47000	43000	4800	4400	15.7	9000	12000	22.1	77	103	1	0.698	76000	86000	7750	8750	7100	10000	44.1	4.1	-	105	0.6		
7015A	7015DB	7015DF	7015DT	75	115	20	1.1	0.6	45000	43500	4600	4450	16.1	6000	8000	37.4	82	108	1	0.661	73000	87500	7450	8900	4800	6700	74.8	34.8	80	110	0.6		
7015C	7015DB	7015DF	7015DT	75	115	20	1.1	0.6	48000	45000	4900	4650	15.9	8500	12000	22.7	82	108	1	0.748	78000	91500	7950	9300	6700	9500	45.4	5.4	-	110	0.6		
7012A	7012DB	7012DF	7012DT	60	95	18	1.1	0.6	33000	29500	3350	3000	16	7100	10000	31.4	67	88	1	0.417	53500	59000	5450	6000	6900	8000	62.7	26.7	65	90	0.6		
7012C	7012DB	7012DF	7012DT	60	95	18	1.1	0.6	35000	30500	3600	3150	15.6	10000	14000	19.4	67	88	1	0.46	57000	61500	5800	6250	8500	12000	38.8	2.8	-	90	0.6		
7013A	7013DB	7013DF	7013DT	65	100	18	1.1	0.6	35000	33000	3550	3350	16.2	6700	9500	32.8	72	93	1	0.455	56500	65500	5750	6700	5600	7500	65.6	29.6	70	95	0.6		
7013C	7013DB	7013DF	7013DT	65	100	18	1.1	0.6	37000	34500	3800	3500	15.9	10000	13000	20	72	93	1	0.493	60500	68500	6150	7000	8000	11000	40.1	4.1	-	95	0.6		
7014A	7014DB	7014DF	7014DT	70	110	20	1.1	0.6	44000	41500	4500	4200	16	6300	8500	36	77	103	1	0.625	71500	82500	7300	8450	5000	6700	72	32	75	105	0.6		
7014C	7014DB	7014DF	7014DT	70	110	20	1.1	0.6	47000	43000	4800	4400	15.7	9000	12000	22.1	77	103	1	0.698	76000	86000	7750	8750	7100	10000	44.1	4.1	-	105	0.6		
7015A	7015DB	7015DF	7015DT	75	115	20	1.1	0.6	45000	43500	4600	4450	16.1	6000	8000	37.4	82	108	1	0.661	73000	87500	7450	8900	4800	6700	74.8	34.8	80	110	0.6		
7015C	7015DB	7015DF	7015DT	75	115	20	1.1	0.6	48000	45500	4900	4650	15.9	8500	12000	22.7	82	108	1	0.748	78000	91500	7950	9300	6700	9500	45.4	5.4	-	110	0.6		
7016A	7016DB	7016DF	7016DT	80	125	22	1.1	0.6	58000	55500	6000	5650	15.7	8000	11000	24.7	87	118	1	0.966	95500	111000	9700	11300	6300	9000	49.4	5.4	-	120	0.6		
7016C	7016DB	7016DF	7016DT																														