

# 7300 Series angular contact ball bearings

## Single Row Angular Contact Ball Bearings

## 7300 Series angular contact ball bearings



Bearing Numbers		Principal dimensions(mm)						Basic load ratings(N)		Basic load ratings(kg)		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) (kg)		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)		
7300A	7300DB	7300DF	7300DT	10	35	11	0.6	0.3	9300	4300	950	440	12.2	20000	26000	12	15	30	0.6	0.053	15100	8600	1540	880	16000	22000	24	2	12.5	32.5	0.3		
7300B	7300DB	7300DF	7300DT	10	35	11	0.6	0.3	8750	4050	890	410	12.9	18000	24000	14.9	15	30	0.6	0.054	14200	8100	1450	825	14000	20000	29.9	7.9	12.5	32.5	0.3		
7301A	7301DB	7301DF	7301DT	12	37	12	1	0.6	9450	4500	965	460	12.7	18000	24000	13.1	18	31	1	0.06	15400	9000	1570	915	15000	20000	26.1	2.1	17	32	0.6		
7301B	7301DB	7301DF	7301DT	12	37	12	1	0.6	8850	4200	900	425	13.4	16000	22000	16.3	18	31	1	0.061	14400	8400	1460	855	13000	18000	32.6	8.6	17	32	0.6		
7302A	7302DB	7302DF	7302DT	15	42	13	1	0.6	13400	7100	1370	720	13	16000	22000	14.7	21	36	1	0.084	21800	14200	2220	1440	13000	17000	29.5	3.5	20	37	0.6		
7302B	7302DB	7302DF	7302DT	15	42	13	1	0.6	12500	6600	1270	670	13.6	14000	19000	18.5	21	36	1	0.086	20200	13200	2060	1340	11000	15000	36.9	10.9	20	37	0.6		
7303A	7303DB	7303DF	7303DT	17	47	14	1	0.6	15900	8650	1630	880	13.1	14000	19000	16.2	23	41	1	0.116	25900	17300	2640	1760	11000	15000	32.5	4.5	22	42	0.6		
7303B	7303DB	7303DF	7303DT	17	47	14	1	0.6	14800	8000	1510	820	13.7	13000	17000	20.4	23	41	1	0.118	24000	16000	2450	1640	10000	14000	40.9	12.9	22	42	0.6		
7304A	7304DB	7304DF	7304DT	20	52	15	1.1	0.6	18700	10400	1910	1060	13.2	13000	17000	17.9	27	45	1	0.146	30500	20800	3100	2130	10000	13000	35.8	5.8	25	47	0.6		
7304B	7304DB	7304DF	7304DT	20	52	15	1.1	0.6	17300	9650	1770	985	13.9	11000	15000	22.6	27	45	1	0.15	28200	19300	2870	1970	9000	12000	45.2	15.2	25	47	0.6		
7305A	7305DB	7305DF	7305DT	25	62	17	1.1	0.6	26400	15800	2690	1610	13.5	10000	14000	21.1	32	55	1	0.235	43000	31500	4400	3250	8500	11000	42.1	8.1	30	57	0.6		
7305B	7305DB	7305DF	7305DT	25	62	17	1.1	0.6	24400	14600	2490	1490	14.1	9000	13000	26.7	32	55	1	0.241	39500	29300	4050	2980	7500	10000	53.5	19.5	30	57	0.6		
7306A	7306DB	7306DF	7306DT	30	72	19	1.1	0.6	33500	20900	3450	2130	13.6	9000	12000	24.2	37	65	1	0.346	54500	41500	5600	4250	7100	9500	48.4	10.4	35	67	0.6		
7306B	7306DB	7306DF	7306DT	30	72	19	1.1	0.6	31000	19300	3150	1960	14.2	8000	11000	30.9	37	65	1	0.354	50500	38500	5150	3950	6300	8500	61.8	23.8	35	67	0.6		
7307A	7307DB	7307DF	7307DT	35	80	21	1.5	1	40000	26300	4050	2680	13.9	8000	10000	27.1	44	71	1.5	0.464	65000	52500	6600	5350	6300	8500	54.2	12.2	41	74	1		
7307B	7307DB	7307DF	7307DT	35	80	21	1.5	1	36500	24200	3750	2460	14.7	7100	9500	34.6	44	71	1.5	0.474	59500	48500	6100	4950	5600	7500	69.2	27.2	41	74	1		
7308A	7308DB	7308DF	7308DT	40	90	23	1.5	1	45000	30500	4550	3100	14.5	6300	8500	38.8	49	81	1.5	0.648	73000	60500	7400	6200	5000	6700	77.5	31.5	46	84	1		
7308B	7308DB	7308DF	7308DT	40	90	23	1.5	1	41000	28500	4450	3100	13.7	6300	8500	33.4	54	91	1.5	0.648	67000	55000	6700	5500	4500	6000	66.9	16.9	51	94	1		
7309A	7309DB	7309DF	7309DT	45	100	25	1.5	1	58500	40000	5950	4100	14.3	5600	7500	42.9	54	91	1.5	0.869	95000	80500	9650	8200	4500	6000	83.8	35.8	51	94	1		
7309B	7309DB	7309DF	7309DT	45	100	27	2	1	74000	52000	7550	5300	13.8	5600	7500	36.6	60	100	2	1.1	121000	104000	12300	10600	4500	6000	73.2	19.2	56	104	1		
7310A	7310DB	7310DF	7310DT	50	110	27	2	1	68000	48000	6950	4900	14.4	5000	6700	47.1	60	100	2	1.12	111000	96000	11300	9800	4000	5600	94.1	40.1	56	104	1		
7310B	7310DB	7310DF	7310DT	50	110	29	2	1	86000	61500	8750	6250	13.9	5000	6700	39.8	65	110	2	1.41	139000	123000	14200	12500	4000	5600	79.5	21.5	61	114	1		
7311A	7311DB	7311DF	7311DT	55	120	29	2	1	99000	56500	8050	5750	14.4	4500	6300	51.2	65	110	2	1.45	128000	113000	13100	11500	3600	5000	102.4	44.4	61	114	1		
7311B	7311DB	7311DF	7311DT	55	120	31	2.1	1.1	79000	51500	7650	5350	13.9	4800	6300	42.9	72	118	2	1.74	159000	143000	16200	14500	3800	5000	85.9	23.9	67	123	1		
7312A	7312DB	7312DF	7312DT	60	130	31	2.1	1.1	90000	65500	9200	6700	14.4	4300	5600	55.4	72	118	2	1.78	146000	131000	14900	13400	3400	4500	110.7	48.7	67	123	1		
7312B	7312DB	7312DF	7312DT	60	130	33	2.1	1.1	110000	82000	11300	8350	14	4300	6000	46.1	77	128	2	2.12	180000	164000	18400	16700	3600	4800	92.2	26.2	72	133	1		
7313A	7313DB	7313DF	7313DT	65	140	33	2.1	1.1	102000	75500	10400	7700	14.5	3800	5300	59.5	77	128	2	2.17	166000	151000	16900	15400	3200	4300	119	53	72	133	1		
7314A	7314DB	7314DF	7314DT	70	150	35	2.1	1.1	125000	93500	12700	9550	14.2	4000	5300	49.3	82	138	2	2.6	203000	187000	20700	19100	3200	4300	98.5	28.5	77	143	1		
7314B	7314DB	7314DF	7314DT	70	150	35	2.1	1.1	114000	86000	11700	8750	14.5	3600	5000	63.6	82	138	2	2.65	186000	172000	19000	17500	1800	4000	127.3	57.3	77	143	1		
7315A	7315DB	7315DF	7315DT	75	160	37	2.1	1.1	136000	106000	13800	10800	14	3800	5000	52.4	87	148	2	3.13	221000	212000	22500	21600	3000	4000	104.8	30.8	82	153	1		
7315B	7315DB	7315DF	7315DT	75	160	37	2.1	1.1	125000	97500	12700	9900	14.5	3400	4800	67.8	87	148	2	3.19	202000	195000	20600	19800	2800	3800	135.6	61.6	82	153	1		
7316A	7316DB	7316DF	7316DT	80	170	39	2.1	1.1	150000	122000	14800	12400	14.1	3400	4500	58.8	99	166	2.5	4.33	258000	265000	26300	27000	2600	3400	117.5	35.5	92	173	1		
7316B	7316DB	7316DF	7316DT	80	170	39	2.1	1.1	135000	109000	13800	11100	14.5	3200	4300	71.9	92	158	2	3.79	219000	218000	22400	22300	2600	3400	143.9	65.9	87	163	1		
7317A	7317DB	7317DF	7317DT	85	180	41	3	1.1	159000	133000	16200	13500	14.1	3400	4500	58.8	99	166	2.5	4.33	258000	265000	26300	27000	2600	3400	117.5	35.5	92	173	1		
7317B	7317DB	7317DF	7317DT	85	180	41	3	1.1	146000	122000	14800	12400	14.6	3000	4000	76.1	99	166	2.5	4.43	236000	244000	24100	24800	2400	3200	152.2	70.2	92	173	1		
7318A	7318DB	7318DF	7318DT	90	190	43	3	1.1	171000	147000	17400	15000	14.1	3200	4300	61.9	104	176	2.5	5.06	277000	294000	28300	30000	2600	3400	123.8	37.8	97	183	1		
7318B	7318DB	7318DF	7318DT	90	190	43	3	1.1	156000	135000	15900	13800	14.6	2800	3800	80.2	104	176	2.5	5.17	254000	270000	25900	27600	2200	3000	160.5	74.5	97	183	1		
7319A	7319DB	7319DF	7319DT	95	200	45	3	1.1	183000	162000	18600	16600	14.1	3000	4000	65.1	109	186	2.5	5.83	297000	325000	30500	33000	2400	3200	130.2	40.2	102	193	1		
7319B	7319DB	7319DF	7319DT	95	200	45	3	1.1	167000	149000	17100	15200	14.6	2600	3600	84.3	109	186	2.5	5.98	272000	298000	27700	30500	2200	3000	168.7	78.7	102	193	1		
7316A	7316DB	7316DF	7316DT	80	170	39	2.1	1.1	147000	119000	15000	12100	14	3600	4800	55.6	92	158	2	3.71	239000	238000	24400	24200	2800	3800	111.2	33.2	87	163	1		
7316B	7316DB	7316DF	7316DT	80	170	39	2.1	1.1	135000	109000	13800	11100	14.5	3200	4300	71.9	92	158	2	3.79	219000	218000	22400	22300	2600								