

# 7900 Series angular contact ball bearings

## Single Row Angular Contact Ball Bearings 7900 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)(a0)		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)		
7900A5	7900DB	7900DF	7900DT	10	22	6	0.3	0.15	2880	1450	294	148	14.7	40000	56000	6.7	12.5	19.5	0.3	0.009	4700	2900	475	296	32000	43000	13.5	1.5	-	-	20.8	0.15	
7900C	7900DB	7900DF	7900DT	10	22	6	0.3	0.15	3900	1520	305	155	14.1	48000	63000	5.1	12.5	19.5	0.3	0.009	4900	3050	500	310	38000	52000	10.3	1.7	-	-	20.8	0.15	
7901A5	7901DB	7901DF	7901DT	12	24	6	0.3	0.15	3200	1770	325	181	15.2	38000	53000	7.2	14.5	21.5	0.3	0.011	5200	3550	530	360	30000	43000	14.4	2.4	-	-	22.8	0.15	
7901C	7901DB	7901DF	7901DT	12	24	6	0.3	0.15	3350	1860	340	189	14.7	45000	63000	5.4	14.5	21.5	0.3	0.011	5450	3700	555	380	36000	50000	10.8	1.2	-	-	22.8	0.15	
7902A5	7902DB	7902DF	7902DT	15	28	7	0.3	0.15	4550	2530	465	258	14.8	32000	43000	8.5	17.5	25.5	0.3	0.015	7400	5050	755	515	26000	34000	17	3	-	-	26.8	0.15	
7902C	7902DB	7902DF	7902DT	15	28	7	0.3	0.15	4750	2640	485	270	14.5	38000	53000	6.4	17.5	25.5	0.3	0.015	7750	5300	790	540	30000	43000	12.8	1.2	-	-	26.8	0.15	
7903A5	7903DB	7903DF	7903DT	17	30	7	0.3	0.15	4750	2800	485	286	15.1	30000	40000	9	19.5	27.5	0.3	0.017	7750	5600	790	570	24000	32000	18	4	-	-	28.8	0.15	
7903C	7903DB	7903DF	7903DT	17	30	7	0.3	0.15	5000	2940	510	299	14.8	34000	48000	6.6	19.5	27.5	0.3	0.017	8150	5850	830	600	28000	38000	13.3	0.7	-	-	28.8	0.15	
7904A5	7904DB	7904DF	7904DT	20	37	9	0.3	0.15	6600	4050	675	410	15.2	24000	32000	11.1	22.5	34.5	0.3	0.036	10700	8100	1090	825	19000	26000	22.3	4.3	-	-	35.8	0.15	
7904C	7904DB	7904DF	7904DT	20	37	9	0.3	0.15	6950	4250	710	430	14.9	28000	38000	8.3	22.5	34.5	0.3	0.036	11300	8500	1150	865	22000	32000	16.6	1.4	-	-	35.8	0.15	
7905A5	7905DB	7905DF	7905DT	25	42	9	0.3	0.15	7450	5150	760	525	15.6	20000	28000	12.3	27.5	39.5	0.3	0.043	12100	10300	1230	1050	16000	22000	24.6	6.6	-	-	40.8	0.15	
7905C	7905DB	7905DF	7905DT	25	42	9	0.3	0.15	7850	5400	800	555	15.5	24000	34000	9	27.5	39.5	0.3	0.042	12700	10800	1300	1110	19000	26000	18	0	-	-	40.8	0.15	
7906A5	7906DB	7906DF	7906DT	30	47	9	0.3	0.15	8750	5950	800	605	16.1	18000	24000	13.5	32.5	44.5	0.3	0.049	12800	11900	1300	1210	14000	19000	27	9	-	-	45.8	0.15	
7906C	7906DB	7906DF	7906DT	30	47	9	0.3	0.15	8300	6250	845	640	15.9	22000	28000	9.7	32.5	44.5	0.3	0.049	13500	12500	1380	1280	17000	24000	19.3	1.3	-	-	45.8	0.15	
7907A5	7907DB	7907DF	7907DT	35	55	10	0.6	0.3	11400	8700	1170	885	16.1	15000	20000	15.5	40	50	0.6	0.074	18600	17400	1890	1770	12000	17000	31	11	-	-	52.5	0.3	
7907C	7907DB	7907DF	7907DT	35	55	10	0.6	0.3	12100	9150	1230	930	15.7	18000	24000	11	40	50	0.6	0.074	19600	18300	2000	1860	14000	20000	22.1	2.1	-	-	52.5	0.3	
7908A5	7908DB	7908DF	7908DT	40	62	12	0.6	0.3	15100	11700	1540	1200	16.2	12000	17000	19.2	50	63	0.6	0.13	24600	25400	2510	2590	9500	13000	38.4	14.4	-	-	65.5	0.3	
7908C	7908DB	7908DF	7908DT	40	62	12	0.6	0.3	15100	11700	1540	1200	16.2	12000	17000	19.2	50	63	0.6	0.13	24600	25400	2510	2590	9500	13000	38.4	14.4	-	-	65.5	0.3	
7909A5	7909DB	7909DF	7909DT	45	68	12	0.6	0.3	16000	13400	1630	1360	16	14000	20000	13.6	50	63	0.6	0.129	26000	26800	2660	2730	12000	16000	27.1	3.1	-	-	65.5	0.3	
7909C	7909DB	7909DF	7909DT	45	68	12	0.6	0.3	16000	13400	1630	1360	16	14000	20000	13.6	50	63	0.6	0.129	26000	26800	2660	2730	12000	16000	27.1	3.1	-	-	65.5	0.3	
7910A5	7910DB	7910DF	7910DT	50	72	12	0.6	0.3	15900	14200	1630	1450	16.4	11000	15000	20.2	55	67	0.6	0.132	25900	28400	2640	2900	9000	12000	40.5	16.5	-	-	69.5	0.3	
7910C	7910DB	7910DF	7910DT	50	72	12	0.6	0.3	16900	15000	1720	1530	16.2	13000	18000	14.2	55	67	0.6	0.13	27400	30000	2800	3050	11000	15000	28.3	4.3	-	-	69.5	0.3	
7911A5	7911DB	7911DF	7911DT	55	80	13	1	0.6	18100	16800	1840	1710	16.4	10000	14000	22.2	61	74	1	0.184	29300	33500	2990	3400	8000	11000	44.5	18.5	-	-	75	0.6	
7911C	7911DB	7911DF	7911DT	55	80	13	1	0.6	19100	17700	1950	1810	16.3	12000	16000	15.5	61	74	1	0.182	31000	35500	3150	3600	9500	13000	31.1	5.1	-	-	75	0.6	
7912A5	7912DB	7912DF	7912DT	60	85	13	1	0.6	18300	17700	1870	1810	16.5	9500	13000	23.4	66	79	1	0.197	29800	35500	3050	3600	7500	10000	46.8	20.8	-	-	80	0.6	
7912C	7912DB	7912DF	7912DT	60	85	13	1	0.6	19400	18700	1980	1910	16.4	11000	15000	16.2	66	79	1	0.194	31500	37500	3200	3800	9000	12000	32.4	6.4	-	-	80	0.6	
7913A5	7913DB	7913DF	7913DT	65	90	13	1	0.6	19100	19400	1980	1980	16.4	9000	12000	24.6	71	84	1	0.211	31000	39000	3150	3950	7100	9500	49.1	23.1	-	-	85	0.6	
7913C	7913DB	7913DF	7913DT	65	90	13	1	0.6	20200	20500	2060	2090	16.5	10000	14000	16.9	71	84	1	0.208	33000	41000	3350	4200	8500	12000	33.8	7.8	-	-	85	0.6	
7914A5	7914DB	7914DF	7914DT	70	100	16	1	0.6	26500	26300	2710	2680	16.5	8000	11000	27.8	76	94	1	0.341	43000	52500	4400	5350	6300	9000	55.6	23.6	-	-	95	0.6	
7914C	7914DB	7914DF	7914DT	70	100	16	1	0.6	28100	27800	2870	2830	16.4	9500	13000	19.4	76	94	1	0.338	45500	55500	4650	5650	7500	11000	38.8	6.8	-	-	95	0.6	
7915A5	7915DB	7915DF	7915DT	75	105	16	1	0.6	26900	27700	2750	2820	16.5	7500	10000	29	81	99	1	0.355	44000	55500	4450	5650	6000	8500	58	26	-	-	100	0.6	
7915C	7915DB	7915DF	7915DT	75	105	16	1	0.6	28600	29300	2910	2980	16.5	8500	12000	20.1	81	99	1	0.357	46500	58000	4750	5950	7100	10000	40.1	8.1	-	-	100	0.6	
7916A5	7916DB	7916DF	7916DT	80	110	16	1	0.6	28300	29300	2910	2980	16.5	9000	12000	20.1	81	99	1	0.357	46500	58000	4750	5950	7100	10000	40.1	8.1	-	-	100	0.6	
7916C	7916DB	7916DF	7916DT	80	110	16	1	0.6	29900	30500	2960	3150	16.5	10000	14000	20.7	86	104	1	0.376	47000	61500	4800	6250	6700	9500	41.5	9.5	-	-	105	0.6	
7917A5	7917DB	7917DF	7917DT	85	120	18	1.1	0.6	36500	37500	3750	3900	16.5	6700	9000	32.9	92	113	1	0.541	59500	77000	6100	7850	5300	7500	65.8	29.8	-	-	115	0.6	
7917C	7917DB	7917DF	7917DT	85	120	18	1.1	0.6	39000	40500	3950	4150	16.4	8000	11000	22.7	92	113	1	0.534	63000	81500	6450	8300	6300	9000	45.5	9.5	-	-	115	0.6	
7918A5	7918DB	7918DF	7918DT	90	125	18	1.1	0.6	39500	43500	4000	4450	16.4	6300	8500	34.1	97	118	1	0.56	64000	87000	6500	8900	5000	7100	68.1	32.1	-	-	120	0.6	
7918C	7918DB	7918DF	7918DT	90	125	18	1.1	0.6	41500	46000	4250	4700	16.5	7500	10000	23.4	97	118	1	0.563	67500	92000	6900	9400	6000	8500	46.8	10.8	-	-	120	0.6	
7919A5	7919DB	7919DF	7919DT	95	130	18	1.1	0.6	40000	45500	4050	4650	16.4	6000	8500	35.2	102	123	1	0.603	64500	91000	6600	9250	4800	6700	70.5	34.5	-	-	125	0.6	
7919C	7919DB	7919DF	7919DT	95	130	18	1.1	0.6	42500	48000	4300	4900	16.5	7100	10000	24.1	102	123	1	0.597	68500	96000	7000	9800	5600	8000	48.1	12.1	-	-	125	0.6	
7916A5	7916DB	7916DF	7916DT	80	110	16	1	0.6	27300	29000	2790	2960	16.4	7100	10000																		