

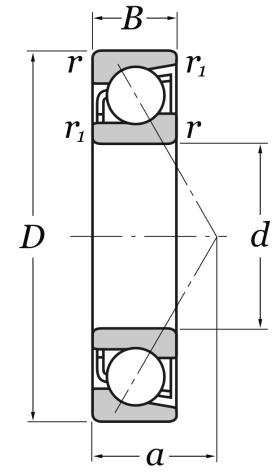
# HMS INDUSTRIES

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## 7000 Series – Angular Contact Ball Bearings

Bearing No.	Bore (d)		Outer Diameter (D)		Width (B)		Fillet Radius				Load Center (a)		Basic Load Ratings lbs		Limiting Speeds rpm		Weight lbs
	mm	in	mm	in	mm	in	(r)		(r <sub>i</sub> )		mm	in	Dynamic C	Static C <sub>0</sub>	Grease	Oil	
							mm	in	mm	in							
7000	10	.3937	26	1.0236	8	.315	.3	.012	.15	.006	9	.35	1,040	465	29,000	39,000	.049
7001	12	.4724	28	1.1024	8	.315	.3	.012	.15	.006	10	.39	1,140	555	26,000	35,000	.053
7002	15	.5906	32	1.2598	9	.3543	.3	.012	.15	.006	11.5	.45	1,300	705	23,000	31,000	.077
7003	17	.6693	35	1.378	10	.3937	.3	.012	.15	.006	12.5	.49	1,610	860	21,000	28,000	.099
7004	20	.7874	42	1.6535	12	.4724	.6	.024	.3	.012	15	.59	2,180	1,260	19,000	25,000	.174
7005	25	.9843	47	1.8504	12	.4724	.6	.024	.3	.012	16.5	.65	2,420	1,540	16,000	21,000	.201
7006	30	1.1811	55	2.1654	13	.5118	1	.039	.6	.024	19	.75	3,100	2,130	13,000	18,000	.293
7007	35	1.378	62	2.4409	14	.5512	1	.039	.6	.024	21	.83	3,950	2,830	12,000	16,000	.403
7008	40	1.5748	68	2.6772	15	.5906	1	.039	.6	.024	23	.91	4,200	3,300	10,000	14,000	.481
7009	45	1.7717	75	2.9528	16	.6299	1	.039	.6	.024	25.5	1	5,000	3,950	9,500	13,000	.613
7010	50	1.9685	80	3.1496	16	.6299	1	.039	.6	.024	27	1.06	5,300	4,500	8,600	11,000	.677
7011	55	2.1654	90	3.5433	18	.7087	1.1	.043	.6	.024	30	1.18	7,000	5,900	7,900	11,000	.924
7012	60	2.3622	95	3.7402	18	.7087	1.1	.043	.6	.024	31.5	1.24	7,150	6,300	7,200	9,600	.99
7013	65	2.5591	100	3.937	18	.7087	1.1	.043	.6	.024	33	1.3	7,600	7,050	6,700	9,000	1.05
7014	70	2.7559	110	4.3307	20	.7874	1.1	.043	.6	.024	36	1.42	9,600	8,850	6,200	8,300	1.58
7015	75	2.9528	115	4.5276	20	.7874	1.1	.043	.6	.024	37.5	1.48	9,800	9,400	5,800	7,800	1.67
7016	80	3.1496	125	4.9213	22	.8661	1.1	.043	.6	.024	40.5	1.59	12,000	11,400	5,500	7,300	2.16
7017	85	3.3465	130	5.1181	22	.8661	1.1	.043	.6	.024	42	1.65	12,300	12,000	5,100	6,900	2.43
7018	90	3.5433	140	5.5118	24	.9449	1.5	.059	1	.039	45	1.77	14,700	14,200	4,900	6,500	3.09
7019	95	3.7402	145	5.7087	24	.9449	1.5	.059	1	.039	46.5	1.83	15,000	15,000	4,600	6,100	3.26
7020	100	3.937	150	5.9055	24	.9449	1.5	.059	1	.039	48	1.89	15,400	15,900	4,400	5,800	3.35
7021	105	4.1339	160	6.2992	26	1.0236	2	.079	1	.039	51.5	2.03	18,000	18,400	4,100	5,500	4.21
7022	110	4.3307	170	6.6929	28	1.1024	2	.079	1	.039	54.5	2.15	20,600	20,900	3,900	5,300	5.29
7024	120	4.7244	180	7.0866	28	1.1024	2	.079	1	.039	57.5	2.26	21,100	22,200	3,600	4,800	5.73
7026	130	5.1181	200	7.874	33	1.2992	2	.079	1	.039	64	2.52	26,400	28,200	3,300	4,400	8.64
7028	140	5.5118	210	8.2677	33	1.2992	2	.079	1	.039	67	2.64	26,900	29,800	3,100	4,100	9.17
7030	150	5.9055	225	8.8583	35	1.378	2.1	.083	1.1	.043	71.5	2.81	31,000	34,500	2,800	3,800	10.7
7032	160	6.2992	240	9.4488	38	1.4961	2.1	.083	1.1	.043	77	3.03	35,000	39,500	2,700	3,600	13
7034	170	6.6929	260	10.2362	42	1.6535	2.1	.083	1.1	.043	83	3.27	42,000	48,000	2,500	3,300	17.4
7036	180	7.0866	280	11.0236	46	1.811	2.1	.083	1.1	.043	89.5	3.52	49,000	59,500	2,300	3,100	22
7038	190	7.4803	290	11.4173	46	1.811	2.1	.083	1.1	.043	92.5	3.64	50,500	63,000	2,200	2,900	23.6
7040	200	7.874	310	12.2047	51	2.0079	2.1	.083	1.1	.043	99	3.9	56,500	73,000	2,100	2,800	30.4



30° Angle