

Angular Contact Thrust Ball Bearings

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Bearing Numbers	Boundary Dimensions (mm)					Basic Load Ratings (kN)		Permissible Axial Load (kN)	Contact Angle (Degree)	Effective Load Center (mm) <i>a</i>	Mass (kg) (approx.)	Limiting Speeds <sup>(1)</sup> (min <sup>-1</sup> )		NSKHPS
	<i>d</i>	<i>D</i>	<i>2B</i>	<i>r</i> (min.)	<i>r</i> <sub>1</sub> (min.)	<i>C</i> <sub>a</sub> (Dynamic)	<i>C</i> <sub>0a</sub> (Static)					Grease	Oil	
50BAR10E	50	80	28.5	1	0.6	14.7	27.7	18.4	30	25.6	0.272	12400	15700	
50BTR10E	50	80	28.5	1	0.6	17.4	31.5	19.3	40	34.1	0.272	10800	14000	
55BAR10E	55	90	33	1.1	0.6	18.2	35	23.4	30	28.9	0.39	11100	14100	
55BTR10E	55	90	33	1.1	0.6	21.6	40	23.6	40	38.3	0.39	9700	12600	
60BAR10E	60	95	33	1.1	0.6	18.9	38	25.5	30	30.4	0.42	10400	13200	
60BTR10E	60	95	33	1.1	0.6	22.4	43.5	25.8	40	40.4	0.42	9100	11800	
65BAR10E	65	100	33	1.1	0.6	19.5	41.5	27.7	30	31.8	0.45	9700	12400	
65BTR10E	65	100	33	1.1	0.6	23.1	47	27.3	40	42.5	0.45	8500	11100	
70BAR10E	70	110	36	1.1	0.6	26.9	55	37.5	30	34.7	0.601	8900	11400	
70BTR10E	70	110	36	1.1	0.6	32	63	35	40	46.3	0.601	7800	10200	
75BAR10E	75	115	36	1.1	0.6	27.3	57.5	39	30	36.1	0.634	8500	10800	
75BTR10E	75	115	36	1.1	0.6	32.5	65.5	36.5	40	48.4	0.634	7400	9600	
80BAR10E	80	125	40.5	1.1	0.6	32	68.5	46.5	30	39.4	0.83	7900	10000	
80BTR10E	80	125	40.5	1.1	0.6	38	78	43	40	52.7	0.83	6900	8900	
85BAR10E	85	130	40.5	1.1	0.6	32.5	71.5	48.5	30	41.1	0.983	7500	9500	
85BTR10E	85	130	40.5	1.1	0.6	38.5	81.5	43.5	40	55.2	0.983	6600	8500	
90BAR10E	90	140	45	1.5	1	42.5	92.5	62.5	30	44.4	1.21	7000	8900	
90BTR10E	90	140	45	1.5	1	50	105	58	40	59.5	1.21	6100	8000	
95BAR10E	95	145	45	1.5	1	43	96.5	65	30	45.5	1.25	6700	8500	
95BTR10E	95	145	45	1.5	1	51	110	61	40	61	1.25	5900	7600	
100BAR10E	100	150	45	1.5	1	43.5	100	68	30	47.3	1.31	6400	8200	
100BTR10E	100	150	45	1.5	1	51.5	114	62.5	40	63.7	1.31	5600	7300	
105BAR10E	105	160	49.5	2	1	49.5	115	78	30	50.6	1.74	6100	7700	
105BTR10E	105	160	49.5	2	1	58.5	131	74.5	40	68	1.74	5300	6900	
110BAR10E	110	170	54	2	1	55.5	131	89	30	53.9	1.97	5800	7300	
110BTR10E	110	170	54	2	1	66	148	82.5	40	72.2	1.97	5000	6500	
120BAR10E	120	180	54	2	1	57	141	96	30	56.8	2.29	5400	6800	
120BTR10E	120	180	54	2	1	68	160	88.5	40	76.4	2.29	4700	6100	
130BAR10E	130	200	63	2	1	72.5	172	117	30	63.3	3.2	4900	6200	
130BTR10E	130	200	63	2	1	86	195	106	40	85	3.2	4300	5600	
140BAR10E	140	210	63	2	1	78.5	200	135	30	66.2	3.56	4600	5900	
140BTR10E	140	210	63	2	1	93	227	84	40	89.2	3.56	4000	5200	
150BAR10S	150	225	67.5	2.1	1.1	92.5	234	160	30	71	4.35	4000	5100	
150BTR10S	150	225	67.5	2.1	1.1	110	267	104	40	95.5	4.35	3500	4600	
160BAR10S	160	240	72	2.1	1.1	100	257	175	30	75.7	5.33	3800	4800	
160BTR10S	160	240	72	2.1	1.1	119	293	184	40	101.9	5.33	3300	4300	
170BAR10S	170	260	81	2.1	1.1	117	305	207	30	82.3	7.95	3500	4500	

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	<i>d</i>	<i>D</i>	<i>2B</i>	<i>r</i> (min.)	<i>r</i> <sub>1</sub> (min.)	<i>C</i> <sub>a</sub> (Dynamic)	<i>C</i> <sub>0a</sub> (Static)					Grease	Oil	
170BTR10S	170	260	81	2.1	1.1	139	345	204	40	110.5	7.95	3100	4000	
180BAR10S	180	280	90	2.1	1.1	151	385	262	30	88.8	10.2	3300	4200	
180BTR10S	180	280	90	2.1	1.1	179	440	271	40	118.9	10.2	2900	3700	
190BAR10S	190	290	90	2.1	1.1	150	385	263	30	91.8	11	3200	4000	
190BTR10S	190	290	90	2.1	1.1	177	440	255	40	123.2	11	2800	3600	
200BAR10S	200	310	99	2.1	1.1	169	444	300	30	98.3	14.2	3000	3800	
200BTR10S	200	310	99	2.1	1.1	201	505	292	40	131.7	14.2	2600	3400	
220BAR10S	220	340	108	3	1.1	189	505	340	30	107.8	18.5	2400	3100	
220BTR10S	220	340	108	3	1.1	224	575	305	40	144.5	18.5	2000	2700	
240BAR10S	240	360	108	3	1.1	195	545	370	30	113.5	19.9	2200	2900	
240BTR10S	240	360	108	3	1.1	231	620	362	40	152.9	19.9	1900	2500	
260BAR10S	260	400	123	4	1.5	253	765	520	30	125.9	29	2000	2600	
260BTR10S	260	400	123	4	1.5	300	870	463	40	169.2	29	1700	2300	
300BAR10S	300	460	142.5	4	1.5	310	1020	696	30	145.3	44.9	1800	2300	
300BTR10S	300	460	142.5	4	1.5	370	1160	675	40	195.1	44.9	1500	2000	
360BAR10S	360	540	159	5	2	360	1320	815	30	169.7	67.6	1500	1900	
360BTR10S	360	540	159	5	2	425	1500	870	40	228.5	67.6	1300	1700	
380BAR10S	380	560	159	5	2	370	1410	965	30	175.4	69.8	1400	1900	
380BTR10S	380	560	159	5	2	440	1600	930	40	236.9	69.8	1200	1600	