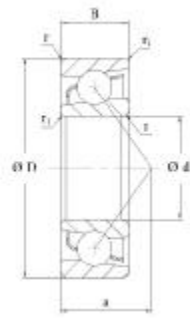


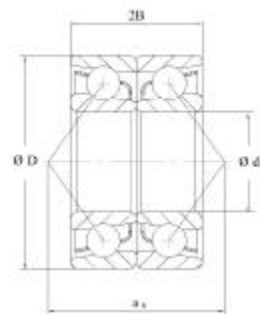
# Angular Contact Ball Bearings

## Single Row

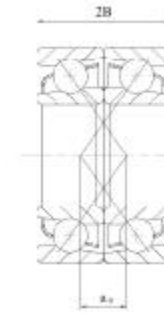
HMEC



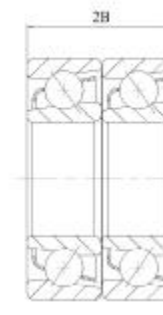
single



DB



DF



DT

Shaft diameter	Dimensions			Basic load ratings (single type)		Limiting Speed (single type)		Working point ≈ a <sub>0</sub>
	d	D	B	dyn. Cr	stat. Cor	grease	oil	
	mm			kN		min <sup>-1</sup>		
60	60	85	13	18.1	17.4	7800	10000	27.5
	60	95	18	32.0	28.1	7200	9600	31.5
	60	110	22	61.5	49.0	6600	8800	36
	60	110	22	56.0	44.5	5700	7600	47.5
	60	130	31	98.0	71.5	5900	7900	43
	60	130	31	90.0	66.0	5100	6800	56
65	65	90	13	18.3	18.0	7200	9600	29
	65	100	18	33.5	31.5	6700	9000	33
	65	120	23	70.5	58.0	6100	8100	38
	65	120	23	63.5	52.5	5200	7000	50.5
	65	140	33	111	82.0	5500	7300	46
	65	140	33	102	75.5	4700	6300	59.5
70	70	100	16	26.2	26.2	6700	9000	32.5
	70	110	20	42.5	39.5	6200	8300	36
	70	125	24	76.5	63.5	5700	7600	40
	70	125	24	69.0	58.0	4900	6500	53
	70	150	35	125	93.5	5100	6800	49.5
	70	150	35	114	86.0	4400	5800	63.5
75	75	105	16	26.5	27.1	6300	8400	34
	75	115	20	43.5	41.5	5800	7800	37.5
	75	130	25	79.0	68.5	5300	7100	42.5
	75	130	25	71.5	62.0	4500	6000	56
	75	160	37	136	106	4800	6300	52.5
	75	160	37	125	97.5	4100	5400	68

Basic load ratings (combined type)		Limiting Speed (combined type)		Code bearing HMEC (combined type)			Mass ≈ kg	
dyn. Cr	stat. Cor	grease	oil	DB	DF	DT		
kN		min <sup>-1</sup>		(single type)				
29.3	35.0	6200	8300	<b>7912DB</b>	<b>7912DF</b>	<b>7912DT</b>	<b>7912</b>	0.230
52.0	56.0	5800	7700	<b>7012DB</b>	<b>7012DF</b>	<b>7012DT</b>	<b>7012</b>	0.478
100	98.0	5300	7000	<b>7212DB</b>	<b>7212DF</b>	<b>7212DT</b>	<b>7212</b>	0.765
91.0	89.0	4600	6100	<b>7212BDB</b>	<b>7212BDF</b>	<b>7212BDT</b>	<b>7212B</b>	0.780
169	143	4700	6300	<b>7312DB</b>	<b>7312DF</b>	<b>7312DT</b>	<b>7312</b>	1.74
146	132	4100	5500	<b>7312BDB</b>	<b>7312BDF</b>	<b>7312BDT</b>	<b>7312B</b>	1.77
29.7	36.0	5700	7600	<b>7913DB</b>	<b>7913DF</b>	<b>7913DT</b>	<b>7913</b>	0.245
55.0	62.5	5400	7100	<b>7013DB</b>	<b>7013DF</b>	<b>7013DT</b>	<b>7013</b>	0.509
114	116	4900	6500	<b>7213DB</b>	<b>7213DF</b>	<b>7213DT</b>	<b>7213</b>	0.962
103	105	4200	5600	<b>7213BDB</b>	<b>7213BDF</b>	<b>7213BDT</b>	<b>7213B</b>	0.981
180	164	4400	5800	<b>7313DB</b>	<b>7313DF</b>	<b>7313DT</b>	<b>7313</b>	2.11
166	151	3800	5100	<b>7313BDB</b>	<b>7313BDF</b>	<b>7313BDT</b>	<b>7313B</b>	2.15
42.5	52.5	5300	7100	<b>7914DB</b>	<b>7914DF</b>	<b>7914DT</b>	<b>7914</b>	0.397
69.5	78.5	5000	6600	<b>7014DB</b>	<b>7014DF</b>	<b>7014DT</b>	<b>7014</b>	0.705
124	127	4500	6000	<b>7214DB</b>	<b>7214DF</b>	<b>7214DT</b>	<b>7214</b>	1.09
112	116	3900	5200	<b>7214BDB</b>	<b>7214BDF</b>	<b>7214BDT</b>	<b>7214B</b>	1.11
203	187	4100	5400	<b>7314DB</b>	<b>7314DF</b>	<b>7314DT</b>	<b>7314</b>	2.56
186	172	3500	4700	<b>7314BDB</b>	<b>7314BDF</b>	<b>7314BDT</b>	<b>7314B</b>	2.61
43.0	54.0	5000	6700	<b>7915DB</b>	<b>7915DF</b>	<b>7915DT</b>	<b>7915</b>	0.420
71.0	83.5	4600	6200	<b>7015DB</b>	<b>7015DF</b>	<b>7015DT</b>	<b>7015</b>	0.745
128	137	4200	5600	<b>7215DB</b>	<b>7215DF</b>	<b>7215DT</b>	<b>7215</b>	1.17
116	124	3700	4900	<b>7215BDB</b>	<b>7215BDF</b>	<b>7215BDT</b>	<b>7215B</b>	1.19
221	212	3800	5000	<b>7315DB</b>	<b>7315DF</b>	<b>7315DT</b>	<b>7315</b>	3.07
202	195	3300	4400	<b>7315BDB</b>	<b>7315BDF</b>	<b>7315BDT</b>	<b>7315B</b>	3.13