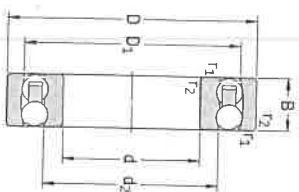


Self-aligning ball bearings

d 30 – 65 mm

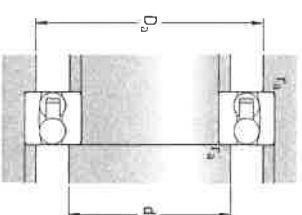


Cylindrical bore

Tapered bore

Principal dimensions	Basic load ratings			Fatigue load limit		Speed ratings		Mass		Designations	
	d	D	B	C	C ₀	P _u	Refer-ence speed	Limiting speed	kg	bore cylindrical	bore tapered

30	62	16	15.6	4.65	0.24	24 000	15 000	0.22	1206 ETN9	1206 EKTN9
	62	20	23.8	6.7	0.35	22 000	15 000	0.26	2206 ETN9	2206 EKTN9
	72	19	22.5	6.8	0.36	19 000	13 000	0.39	1306 ETN9	1306 EKTN9
	72	27	31.2	8.8	0.45	18 000	13 000	0.50	2306	2306 K
35	72	17	19	6	0.31	20 000	13 000	0.32	1207 ETN9	1207 EKTN9
	72	23	30.7	8.8	0.46	18 000	12 000	0.40	2207 ETN9	2207 EKTN9
	80	21	26.5	8.5	0.43	16 000	11 000	0.51	1307 ETN9	1307 EKTN9
	80	31	39.7	11.2	0.59	16 000	12 000	0.68	2307 ETN9	2307 EKTN9
40	80	18	19.9	6.95	0.36	18 000	11 000	0.42	1208 ETN9	1208 EKTN9
	80	23	31.9	11.2	0.51	16 000	11 000	0.51	2208 ETN9	2208 EKTN9
	90	23	33.8	14.2	0.68	14 000	10 000	0.93	1308 ETN9	1308 EKTN9
	90	33	54	16	0.82	14 000	10 000	1.25	2308 ETN9	2308 EKTN9
45	85	19	22.9	7.8	0.40	17 000	11 000	0.47	1209 ETN9	1209 EKTN9
	85	23	32.5	10.6	0.54	15 000	10 000	0.55	2209 ETN9	2209 EKTN9
	100	25	39	13.4	0.70	12 000	8 500	0.96	1309 ETN9	1309 EKTN9
	100	36	63.7	19.3	1	13 000	9 000	1.25	2309 ETN9	2309 EKTN9
50	90	20	26.5	9.15	0.48	16 000	10 000	0.53	1210 ETN9	1210 EKTN9
	90	23	33.8	11.2	0.57	14 000	9 500	0.60	2210 ETN9	2210 EKTN9
	110	27	43.6	14	0.72	12 000	8 000	1.20	1310 ETN9	1310 EKTN9
	110	40	63.7	20	1.04	14 000	9 500	1.65	2310	2310 K
55	100	21	27.6	10.6	0.54	14 000	9 000	0.71	1211 ETN9	1211 EKTN9
	100	25	39	13.4	0.70	12 000	8 500	0.81	2211 ETN9	2211 EKTN9
	120	29	50.7	18	0.92	11 000	7 500	1.60	1311 ETN9	1311 EKTN9
	120	43	76.1	24	1.25	11 000	7 500	2.10	2311	2311 K
60	110	22	31.2	12.2	0.62	12 000	8 500	0.90	1212 ETN9	1212 EKTN9
	110	28	48.8	17	0.88	11 000	8 000	1.10	2212 ETN9	2212 EKTN9
	130	31	58.5	22	1.12	9 000	6 300	1.95	1312 ETN9	1312 EKTN9
	130	46	87.1	28.5	1.46	9 500	7 000	2.60	2312	2312 K
65	120	23	35.1	14	0.72	11 000	7 000	1.15	1213 ETN9	1213 EKTN9
	120	31	57.2	20	1.02	10 000	7 000	1.45	2213 ETN9	2213 EKTN9
	140	33	65	25.5	1.25	8 500	6 000	2.45	1313 ETN9	1313 EKTN9
	140	48	93.6	32.5	1.66	9 000	6 300	3.25	2313	2313 K



Dimensions				Abutment and fillet dimensions				Calculation factors			
d	d ₂	D ₁	r _{1,2} min	d ₃ min	D ₃ max	r ₃ max	e	Y ₁	Y ₂	Y ₀	

30	40.1	53	1	35.6	56.4	1.5	0.25	2.5	3.9	2.5	
	38.8	55	1.1	35.6	56.4	1.5	0.33	1.9	3.9	2.5	
	44.9	60.9	1.1	37	65	1.5	0.25	2.5	3.9	2.5	
	41.7	60.9	1.1	37	65	1.5	0.44	1.4	2.2	1.4	
35	47	62.3	1.1	42	65	1.5	0.23	2.7	4.2	2.8	
	45.3	64.2	1.1	42	65	1.5	0.31	2	3.1	2.2	
	51.5	69.5	1.5	44	71	1.5	0.25	2.5	3.9	2.5	
	46.5	68.4	1.5	44	71	1.5	0.46	1.35	2.1	1.4	
40	53.6	68.8	1.1	47	73	1.5	0.22	2.9	4.5	2.8	
	52.4	71.6	1.1	47	73	1.5	0.28	2.2	3.5	2.5	
	61.5	81.5	1.5	49	81	1.5	0.23	2.7	4.2	2.8	
	53.7	79.2	1.5	49	81	1.5	0.40	1.6	2.4	1.6	
45	57.5	73.7	1.1	52	78	1.5	0.21	3	4.6	3.2	
	55.3	74.6	1.1	52	78	1.5	0.26	2.4	3.7	2.5	
	67.7	89.5	1.5	54	91	1.5	0.23	2.7	4.2	2.8	
	60.1	87.4	1.5	54	91	1.5	0.33	1.9	3	2	
50	61.7	79.5	1.1	57	83	1.5	0.21	3	4.6	3.2	
	61.5	81.5	1.1	57	83	1.5	0.23	2.7	4.2	2.8	
	70.3	95	1.5	61	99	1.5	0.24	2.6	4.1	2.8	
	63.8	94.4	1.5	61	99	1.5	0.43	1.5	2.3	1.6	
55	70.1	88.4	1.5	64	91	1.5	0.19	3.3	5.1	3.6	
	67.7	89.5	1.5	64	91	1.5	0.23	2.7	4.2	2.8	
	77.7	104	2	66	109	1.5	0.23	2.7	4.2	2.8	
	72	103	2	66	109	1.5	0.40	1.6	2.4	1.6	
60	78	97.6	1.5	69	101	1.5	0.19	3.3	5.1	3.6	
	74.5	98.6	1.5	69	101	1.5	0.24	2.6	4.1	2.8	
	91.6	118	2.1	72	118	1.5	0.22	2.9	4.5	2.8	
	76.9	112	2.1	72	118	1.5	0.33	1.9	3	2	
65	85.3	106	1.5	74	111	1.5	0.18	3.5	5.4	3.6	
	80.7	107	1.5	74	111	1.5	0.24	2.6	4.1	2.8	
	99	127	2.1	77	128	1.5	0.22	2.9	4.5	2.8	
	85.5	122	2.1	77	128	1.5	0.37	1.7	2.6	1.8	