

HRB Bearings Catalogue - Self-aligning Ball Bearings

Bearing numbers		Boundary dimensions (mm)				Basic load ratings (kN)		Limiting speeds (r/min)		Abutment and fillet dimensions (mm)			Constant	Axial load factors			Weight (kg)
1200ATN		10	30	9	0.6	5.06	1.18	24000	30000	14	26	0.6	0.33	1.9	3	2	0.0336
2200ATN		10	30	14	0.6	8.06	1.73	22000	28000	14	26	0.6	0.54	1.15	1.8	1.3	0.047
1300ATN		10	35	11	0.6	8.16	1.8	20000	26000	15	30	0.6	0.34	1.85	2.87	1.94	0.0571
1201ATN		12	32	10	0.6	5.58	1.48	22000	28000	16	28	0.6	0.33	1.9	3	2	0.0411
2201ATN		12	32	14	0.6	8.52	1.9	20000	26000	16	28	0.6	0.5	1.25	2	1.3	0.053
1301ATN		12	37	12	1	8.74	2.1	18000	22000	17	32	1	0.35	1.8	2.8	1.8	0.0663
2301ATN		12	37	17	1	11.7	2.7	17000	20000	17	32	1	0.6	1.05	1.6	1.1	0.095
1202ATN		15	35	11	0.6	7.47	2.01	19000	24000	19	31	0.6	0.33	1.9	3	2	0.0497
2202ATN		15	35	14	0.6	8.71	2.04	18000	22000	19	31	0.6	0.43	1.5	2.3	1.6	0.06
1302ATN		15	42	13	1	9.52	2.63	17000	20000	20	37	1	0.31	2	3.1	2.2	0.0966
2302ATN		15	42	17	1	11.9	2.9	15000	18000	20	37	1	0.52	1.2	1.9	1.3	0.11
1203ATN		17	40	12	0.6	7.9	2.4	18000	22000	21	36	0.6	0.31	2	3.1	2.2	0.0734
2203ATN		17	40	16	0.6	10.6	2.55	17000	20000	21	36	0.6	0.43	1.5	2.3	4.6	0.088
1303ATN		17	47	14	0.6	11.8	3.33	14000	17000	22	42	1	0.3	2.1	3.3	2.2	0.131
2303ATN		17	47	19	1	14.6	3.55	13000	16000	22	42	1	0.52	1.2	1.9	1.3	0.16
1204ATN	1204AKTN	20	47	14	1	12.7	3.4	15000	18000	25	42	1	0.3	2.1	3.3	2.2	0.116
2204ATN	2204AKTN	20	47	18	1	15.2	4.15	14000	17000	25	42	1	0.4	1.6	2.4	1.6	0.136
1304ATN	1304AKTN	20	52	15	1.1	14.3	4.01	12000	15000	26.5	45.5	1	0.28	2.2	3.5	2.5	0.169
2304ATN	2304AKTN	20	52	21	1.1	18.3	4.75	11000	14000	26.5	45.5	1	0.52	1.2	1.9	1.3	0.208
1205ATN	1205AKTN	25	52	15	1	14.3	4	13000	16000	30	47	1	0.28	2.2	0.35	2.5	0.139
2205ATN	2205AKTN	25	52	18	1	16	4.47	11000	14000	30	47	1	0.35	1.8	2.8	1.8	0.158
1305ATN	1305AKTN	25	62	17	1.1	18.1	6	9500	12000	31.5	55.5	1	0.28	2.2	3.5	2.5	0.25
2305ATN	2305AKTN	25	62	24	1.1	24.6	6.62	9500	12000	31.5	55.5	1	0.48	1.3	2	1.4	0.336
1206A	1206AK	30	62	16	1	15.6	4.65	10000	13000	35	57	1	0.25	2.5	3.9	2.5	0.219
1206ATN	1206AKTN	30	62	16	1	15.6	4.65	10000	13000	35	57	1	0.25	2.5	3.9	2.5	0.219

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Cylindrical hole	Tapered hole	d	D	B	rmin	Cr	Cor	Grease	Oil	damin	Damax	ramax	e	Y1	Y2	Y3	
2206A	2206AK	30	62	20	1	23.8	6.58	9500	12000	35	57.3	1	0.33	190	3	2	0.251
2206ATN	2206AKTN	30	62	20	1	23.8	6.58	9500	12000	35	57.3	1	0.33	190	3	2	0.251
1306A	1306AK	30	72	19	1.1	21.3	7.75	9000	11000	36.5	65.5	1	0.25	2.5	3.9	2.5	0.378
1306ATN	1306AKTN	30	72	19	1.1	21.3	7.75	9000	11000	36.5	65.5	1	0.25	2.5	3.9	2.5	0.378
2306A	2306AK	30	72	27	1.1	31.7	8.82	8500	1000	36.5	65.5	1	0.44	1.4	2.9	1.4	0.5
2306ATN	2306AKTN	30	72	27	1.1	31.7	8.82	8500	1000	36.5	65.5	1	0.44	1.4	2.9	1.4	0.5
1207A	1207AK	35	72	17	1.1	18	6.23	9000	11000	41.5	65.5	1	0.23	2.7	4.2	2.8	0.305
1207ATN	1207AKTN	35	72	17	1.1	18	6.23	9000	11000	41.5	65.5	1	0.23	2.7	4.2	2.8	0.305
2207A	2207AK	35	72	23	1.1	30.5	8.72	8500	10000	41.5	65.5	1	0.31	2	3.1	2.2	0.385
2207ATN	2207AKTN	35	72	23	1.1	30.5	8.72	8500	10000	41.5	65.5	1	0.31	2	3.1	2.2	0.385
1307A	1307AK	35	80	21	1.5	25.1	9.81	7500	9000	43	72	1.5	0.25	2.5	3.9	2.5	0.525
1307ATN	1307AKTN	35	80	21	1.5	25.1	9.81	7500	9000	43	72	1.5	0.25	2.5	3.9	2.5	0.525
2307A	2307AK	35	80	31	1.5	39.9	11.3	7000	8500	43	72	1.5	0.46	1.35	2.1	1.4	0.677
2307ATN	2307AKTN	35	80	31	1.5	39.9	11.3	7000	8500	43	72	1.5	0.46	1.35	2.1	1.4	0.677
1208A	1208AK	40	80	18	1.1	18.5	6.95	8500	10000	46.5	73.5	1	0.22	2.9	4.5	2.8	0.393
1208ATN	1208AKTN	40	80	18	1.1	18.5	6.95	8500	10000	46.5	73.5	1	0.22	2.9	4.5	2.8	0.393
2208A	2208AK	40	80	23	1.1	31.8	10.1	7500	9000	46.5	73.5	1	0.28	2.2	3.5	2.5	0.48
2208ATN	2208AKTN	40	80	23	1.1	31.8	10.1	7500	9000	46.5	73.5	1	0.28	2.2	3.5	2.5	0.48
1308A	1308AK	40	90	23	1.5	33.8	11.4	6700	8000	48	82	1.5	0.23	2.7	4.2	2.8	0.673
1308ATN	1308AKTN	40	90	23	1.5	33.8	11.4	6700	8000	48	82	1.5	0.23	2.7	4.2	2.8	0.673
2308A	2308AK	40	90	33	1.5	54.2	15.9	6300	7500	48	82	1.5	0.4	1.6	2.4	1.6	0.897
2308ATN	2308AKTN	40	90	33	1.5	54.2	15.9	6300	7500	48	82	1.5	0.4	1.6	2.4	1.6	0.897
1209A	1209AK	45	85	19	1.1	21.7	9.56	7500	9000	51.5	78.5	1	0.21	2	4.6	3.2	0.473
1209ATN	1209AKTN	45	85	19	1.1	21.7	9.56	7500	9000	51.5	78.5	1	0.21	2	4.6	3.2	0.473
2209A	2209AK	45	85	13	1.1	32	10.6	7000	8500	51.5	78.5	1	0.26	2.4	3.7	2.5	0.526
2209ATN	2209AKTN	45	85	13	1.1	32	10.6	7000	8500	55.5	78.5	1	0.26	2.4	3.7	2.5	0.526
1309A	1309AK	45	100	25	1.5	38	13.4	6300	7500	53	92	1.5	0.23	2.7	4.2	2.8	0.932
1309ATN	1309AKTN	45	100	25	1.5	38	13.4	6300	7500	53	92	1.5	0.23	2.7	4.2	2.8	0.932

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2309A	2309AK	45	100	36	1.5	63.7	19.3	5600	6700	53	92	1.5	0.33	1.9	3	2	1.25
2309ATN	2309AKTN	45	100	36	1.5	63.7	19.3	5600	6700	53	92	1.5	0.33	1.9	3	2	1.25
1210A	1210AK	50	90	20	1.1	26.5	9.15	7000	8500	56.5	83.5	1	0.21	2	4.6	3.2	0.525
1210ATN	1210AKTN	50	90	20	1.1	26.5	9.15	7000	8500	56.5	83.5	1	0.21	2	4.6	3.2	0.525
2210A	2210AK	50	90	23	1.1	33.6	11.3	6300	7500	56.5	83.5	1	0.23	2.7	4.2	2.8	0.559
2210ATN	2210AKTN	50	90	23	1.1	33.6	11.3	6300	7500	56.5	83.5	1	0.23	2.7	4.2	2.8	0.559
1310A	1310AK	50	110	27	2	43.3	14	5600	6700	59	101	2	0.24	2.6	4.1	2.8	1.17
1310ATN	1310AKTN	50	110	27	2	43.3	14	5600	6700	59	101	2	0.24	2.6	4.1	2.8	1.17
2310A	2310AK	50	110	40	2	63.7	20	5300	6300	59	101	2	0.43	1.5	2.3	1.6	1.65
2310ATN	2310AKTN	50	110	40	2	63.7	20	5300	6300	59	101	2	0.43	1.5	2.3	1.6	1.65
1211A	1211AK	55	100	21	1.5	26.8	10.6	6300	7500	63	95	1.5	0.19	3.3	5.1	3.6	0.703
1211ATN	1211AKTN	55	100	21	1.5	26.8	10.6	6300	7500	63	95	1.5	0.19	3.3	5.1	3.6	0.703
2211A	2211AK	55	110	25	1.5	37.3	13.2	6000	7000	63	92	1.5	0.23	2.7	4.2	2.8	0.935
2211ATN	2211AKTN	55	110	25	1.5	37.3	13.2	6000	7000	63	92	1.5	0.23	2.7	4.2	2.8	0.935
1311A	1311AK	55	120	29	2	51.5	18	5000	6000	64	111	2	0.23	2.7	4.2	2.8	1.53
1311ATN	1311AKTN	55	120	29	2	51.5	18	5000	6000	64	111	2	0.23	2.7	4.2	2.8	1.53
2311A	2311AK	55	120	43	2	76.1	24	4800	5600	64	111	2	0.4	1.6	2.4	1.6	2.1
2311ATN	2311AKTN	55	120	43	2	76.1	24	4800	5600	64	111	2	0.4	1.6	2.4	1.6	2.1
1212A	1212AK	60	110	22	1.5	30.2	12.2	5600	6700	68	102	1.5	0.19	3.3	5.1	3.6	0.87
1212ATN	1212AKTN	60	110	22	1.5	30.2	12.2	5600	6700	68	102	1.5	0.19	3.3	5.1	3.6	0.87
2212A	2212AK	60	110	28	1.5	48.1	17.1	5300	6300	68	102	1.5	0.24	2.6	4.1	2.8	1.06
2212ATN	2212AKTN	60	110	28	1.5	48.1	17.1	5300	6300	68	102	1.5	0.24	2.6	4.1	2.8	1.06
1312A	1312AK	60	130	31	2.1	57.9	22	4500	5300	71	119	2	0.23	2.7	4.2	2.8	1.97
1312ATN	1312AKTN	60	130	31	2.1	57.9	22	4500	5300	71	119	2	0.23	2.7	4.2	2.8	1.97
2312A	2312AK	60	130	46	2.1	87.7	28.3	4500	5300	71	119	2	0.33	1.9	3	2	2.62
2312ATN	2312AKTN	60	130	46	2.1	87.7	28.3	4500	5300	71	119	2	0.33	1.9	3	2	2.62
1213A	1213AK	65	120	23	1.5	35.1	14	5300	6300	73	112	1.5	0.18	2.5	5.4	3.6	0.89

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Bearing numbers		Boundary dimensions (mm)				Basic load ratings (kN)		Limiting speeds (r/min)		Abutment and fillet dimensions (mm)			Constant	Axial load factors			Weight (kg)
1213ATN	1213AKTN	65	120	23	1.5	35.1	14	5300	6300	73	112	1.5	0.18	2.5	5.4	3.6	0.89
2213A	2213AK	65	120	31	1.5	57.2	20	5000	6000	73	112	1.5	0.24	2.6	4.1	2.8	1.45
2213ATN	2213AKTH	65	120	31	1.5	57.2	20	5000	6000	73	112	1.5	0.24	2.6	4.1	2.8	1.45
1313A	1313AK	65	140	33	2.1	65	25.5	4300	5000	76	129	2	0.22	2.9	4.5	2.8	2.34
1313ATN	1313AKTN	65	140	33	2.1	65	25.5	4300	5000	76	129	2	0.22	2.9	4.5	2.8	2.34
2313A	2313AK	65	140	48	2.1	95.6	32.5	4000	4800	76	129	2	0.37	1.7	2.6	1.8	3.25
2313ATN	2313AKTN	65	140	48	2.1	95.6	32.5	4000	4800	76	129	2	0.37	1.7	2.6	1.8	3.25
1214A	1214AK	70	125	24	1.5	34.2	13.5	5000	6000	78	117	1.5	0.18	3.5	5.4	3.6	1.21
1214ATN	1214AKTN	70	125	24	1.5	34.2	13.5	5000	6000	78	117	1.5	0.18	3.5	5.4	3.6	1.21
2214A	2214AK	70	125	31	1.5	44.2	17	4800	5600	78	117	1.5	0.27	2.3	3.6	2.5	1.5
2214ATN	2214AKTN	70	125	31	1.5	44.2	17	4800	5600	78	117	1.5	0.27	2.3	3.6	2.5	1.5
1314A	1314AK	70	150	35	2.1	74.1	27.5	4000	4800	81	139	2	0.22	2.9	4.5	2.8	2.92
1314ATN	1314AKTN	70	150	35	2.1	74.1	27.5	4000	4800	81	139	2	0.22	2.9	4.5	2.8	2.92
2314A	2314AK	70	150	51	2.1	111	37.5	3800	4500	81	139	2	0.37	1.7	2.6	1.8	3.9
2314ATN	2314AKTN	70	150	51	2.1	111	37.5	3800	4500	81	139	2	0.37	1.7	2.6	1.8	3.9
1215A	1215AK	75	130	25	1.5	38.7	15.5	4800	5600	83	122	1.5	0.17	3.7	5.7	4	1.31
1215ATN	1215AKTN	75	130	25	1.5	38.7	15.5	4800	5600	83	122	1.5	0.17	3.7	5.7	4	1.31
2215A	2215AK	75	130	31	1.5	44.4	18	4500	5300	83	122	1.5	0.25	2.5	3.9	2.5	1.6
2215ATN	2215AKTN	75	130	31	1.5	44.4	18	4500	5300	83	122	1.5	0.25	2.5	3.9	2.5	1.6
1315A	1315AK	75	160	37	2.1	77.6	30.8	3800	4500	86	149	2	0.22	2.9	4.5	2.8	3.6
1315ATN	1315AKTN	75	160	37	2.1	77.6	30.8	3800	4500	86	149	2	0.22	2.9	4.5	2.8	3.6
2315A	2315AK	75	160	55	2.1	124	43	3400	4000	86	149	2	0.37	1.7	2.6	1.8	4.7
2315ATN	2315AKTN	75	160	55	2.1	124	43	3400	4000	86	149	2	0.37	1.7	2.6	1.8	4.7
1216A	1216AK	80	140	26	2	39.8	16.9	4500	5300	89	131	2	0.16	3.9	6.1	4	1.63
1216ATN	1216AKTN	80	140	26	2	39.8	16.9	4500	5300	89	131	2	0.16	3.9	6.1	4	1.63
2216A	2216AK	80	140	33	2	65	25.5	4000	4800	89	131	2	0.22	2.9	4.5	2.8	2
2216ATN	2216AKTN	80	140	33	2	65	25.5	4000	4800	89	131	2	0.22	2.9	4.5	2.8	2
1316A	1316AK	80	170	39	2.1	83.2	33.6	3600	4300	91	159	2	0.22	2.9	4.5	2.8	4.28

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Cylindrical hole	Tapered hole	d	D	B	rmin	Cr	Cor	Grease	Oil	damin	Damax	ramax	e	Y1	Y2	Y3	
1220A	1220AK	100	180	34	2.1	68.9	30	3400	4000	111	169	2	0.17	3.7	5.7	4	3.7
1220ATN	1220AKTN	100	180	34	2.1	68.9	30	3400	4000	111	169	2	0.17	3.7	5.7	4	3.7
2220A	2220AK	100	180	46	2.1	97.5	40.5	3200	3800	111	169	2	0.27	2.3	3.6	2.5	5
2220ATN	2220AKTN	100	180	46	2.1	97.5	40.5	3200	3800	111	169	2	0.27	2.3	3.6	2.5	5
1320A	1320AK	100	215	47	3	143	57	2800	3400	113	202	2.5	0.23	2.7	4.2	2.8	8.3
1320ATN	1320AKTN	100	215	47	3	143	57	2800	3400	113	202	2.5	0.23	2.7	4.2	2.8	8.3
2320A	2320AK	100	215	73	3	190	80	2400	3000	113	202	2.5	0.37	1.7	2.6	1.8	12.5
2320ATN	2320AKTN	100	215	73	3	190	80	2400	3000	113	202	2.5	0.37	1.7	2.6	1.8	12.5
1221A	1221AK	105	190	36	2.1	74.1	32.5	3200	3800	116	179	2	0.17	3.7	5.7	4	4.35
1221ATN	1221AKTN	105	190	36	2.1	74.1	32.5	3200	3800	116	179	2	0.17	3.7	5.7	4	4.35
2221A	2221AK	105	190	50	2.1	1008	45	3000	3600	116	179	2	0.28	2.2	3.5	2.5	6.1
2221ATN	2221AKTN	105	190	50	2.1	1008	45	3000	3600	116	179	2	0.28	2.2	3.5	2.5	6.1
1222A	1222AK	110	200	38	2.1	88.4	39	3000	3600	121	189	2	0.17	3.7	5.7	4	5.15
1222ATN	1222AKTN	110	200	38	2.1	88.4	39	3000	3600	121	189	2	0.17	3.7	5.7	4	5.15
2222A	2222AK	110	200	53	2.1	124	52	2800	3400	121	189	2	0.28	2.2	3.5	2.5	7.1
2222ATN	2222AKTN	110	200	53	2.1	124	52	2800	3400	121	189	2	0.28	2.2	3.5	2.5	7.1
1322A	1322AK	110	240	50	3	163	72	2400	3000	123	227	2.5	0.22	2.9	4.5	2.8	12
1322ATN	1322AKTN	110	240	50	3	163	72	2400	3000	123	227	2.5	0.22	2.9	4.5	2.8	12
2322A	2322AK	110	240	80	3	216	95	2200	2800	123	227	2.5	0.37	1.7	2.6	1.8	17.5
2322A	2322AK	110	240	80	3	216	95	2200	2800	123	227	2.5	0.37	1.7	2.6	1.8	17.5
10001224		120	215	42	2.1	91.39	52.5	2000	2600	131	204	2	0.2	3.21	4.97	3.36	7.04
100124K		120	215	42	2.1	88.8	49.9	2000	2600	131	204	2	0.2	3.21	4.97	3.36	5.96
1111224K		120	215	42	2.1	88.8	49.9	2000	2600	131	204	2	0.2	3.21	4.97	3.36	5.9
1001228		140	250	50	3	119	72.1	1900	2500	153	237	2	0.2	3.12	4.83	3.27	11.3
1730		150	235	36	3	79.7	52.8	2000	2600	163	222	2	0.15	4.18	6.46	4.38	6.25