



Shaanxi Gainhui Heavy Industries Co., Ltd.
Bearing Manufacturer And Supplier In China

BECAUSE WE ARE FOCUSED WE ARE PROFESSIONAL

We are committed to providing competitive bearing products and OEM services to global customers.



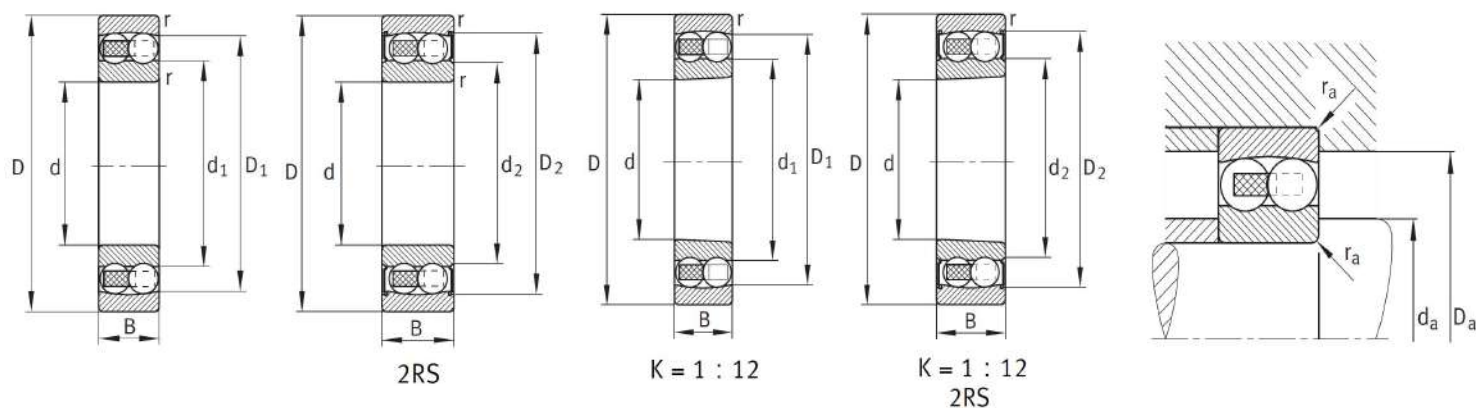
Self-aligning Ball Bearings



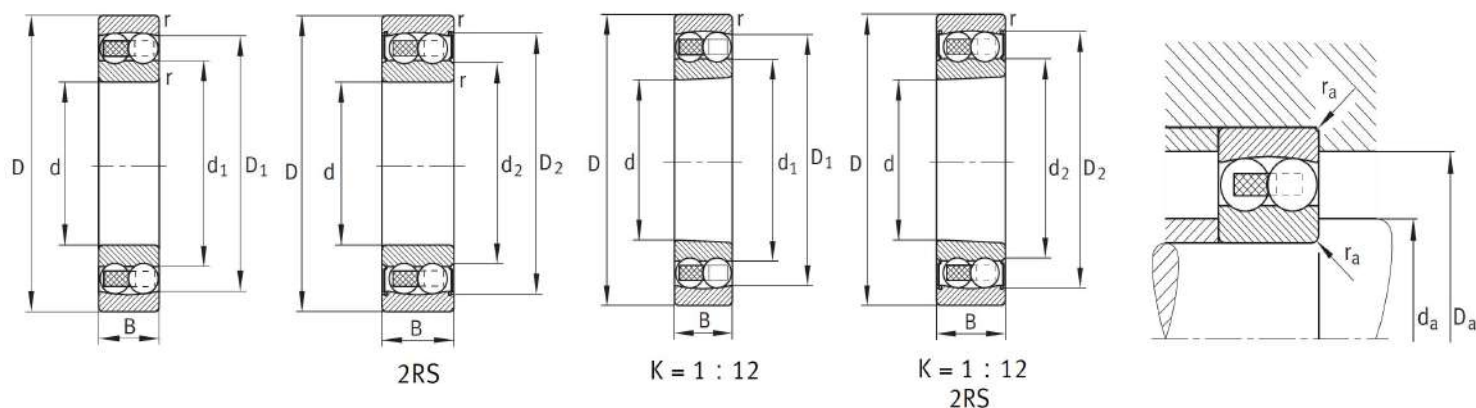
Bearing Series:

12 series, 13 series, 22 series, 23 series,
112 series, 12..-K series, 13..-K series,
22..-K series, 23..-K series, 22..-2RS series,
23..-2RS series, 22..-K-2RS series

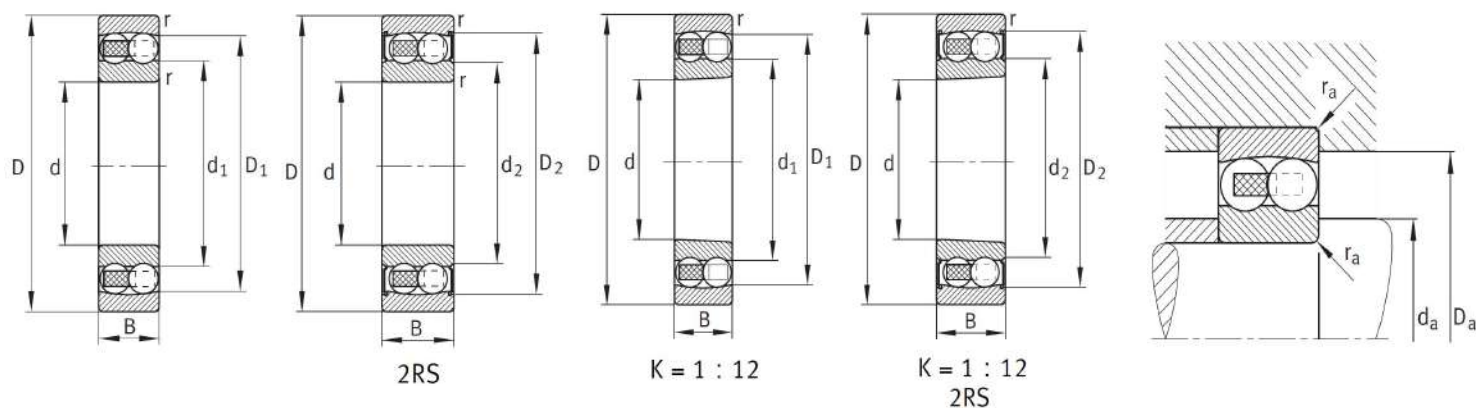




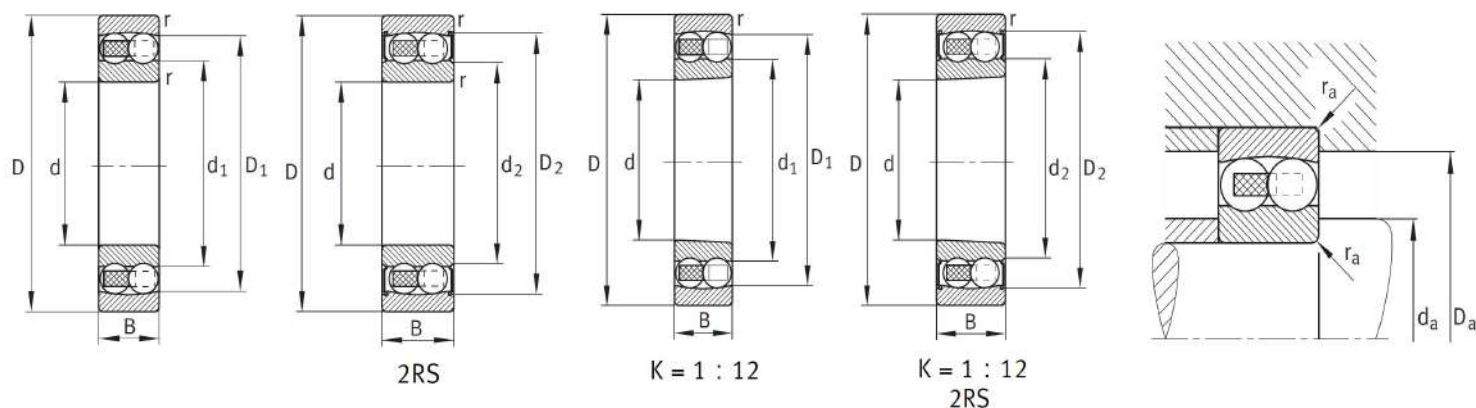
Bearing designation	Dimensions (mm)											Basic dynamic load rating	Basic static load rating	Computing coefficients				Fatigue load limit	Limiting speed	Reference speed	Mass
	d	D	B	r	D1	D2	d1	d2	da	Da	ra	C _r	C _{or}	e	Y1	Y2	Y0	Cur	nG	nB	m
				min.	≈	≈	≈	≈	min.	max.	max.	N	N					N	min-1	min-1	≈kg
135-TVH	5	19	6	0.3	14.5	—	10.1	—	7.4	16.6	0.3	2 600	475	0.35	1.82	2.82	1.91	29.5	36 000	34 500	0.01
126-TVH	6	19	6	0.3	14.5	—	10.1	—	8.4	16.6	0.3	2 600	475	0.35	1.82	2.82	1.91	29.5	36 000	41 500	0.009
127-TVH	7	22	7	0.3	16.8	—	12.4	—	9.4	19.6	0.3	2 750	560	0.33	1.92	2.97	2.01	34.5	36 000	36 000	0.014
108-TVH	8	22	7	0.3	16.8	—	12.4	—	10.6	19.4	0.3	2 750	560	0.33	1.92	2.97	2.01	34.5	36 000	—	0.014
129-TVH	9	26	8	0.6	20	—	14.5	—	13.2	21.8	0.6	3 950	800	0.32	1.95	3.01	2.04	50	32 000	32 500	0.022
1200-TVH	10	30	9	0.6	23.5	—	16.3	—	14.2	25.8	0.6	5 700	1180	0.32	1.95	3.02	2.05	73	30 000	30 000	0.034
2200-2RS-TVH	10	30	14	0.6	—	25.9	—	14.1	14.2	25.8	0.6	5 700	1180	0.32	1.95	3.02	2.05	73	18 000	—	0.053
2200-TVH	10	30	14	0.6	24.2	—	15.1	—	14.2	25.8	0.6	8 800	1730	0.58	1.09	1.69	1.14	107	28 000	29 000	0.045
1201-TVH	12	32	10	0.6	25.4	—	18.2	—	16.2	27.8	0.6	5 700	1260	0.37	1.69	2.62	1.77	78	30 000	29 000	0.041
2201-2RS-TVH	12	32	14	0.6	—	27.9	—	16.2	16.2	27.8	0.6	5 700	1260	0.37	1.69	2.62	1.77	78	17 000	—	0.058
2201-TVH	12	32	14	0.6	26.2	—	17.1	—	16.2	27.8	0.6	9 400	1920	0.53	1.2	1.85	1.25	120	26 000	26 000	0.05
1202-TVH	15	35	11	0.6	29.2	—	20.2	—	19.2	30.8	0.6	7 700	1730	0.34	1.86	2.88	1.95	108	26 000	26 000	0.048
2202-2RS-TVH	15	35	14	0.6	—	31	—	19	19.2	30.8	0.6	7 700	1730	0.34	1.86	2.88	1.95	108	15 000	—	0.061
2202-TVH	15	35	14	0.6	29.5	—	20.3	—	19.2	30.8	0.6	9 600	2080	0.46	1.37	2.13	1.44	130	24 000	21 900	0.057
2302-TVH	15	42	17	1	34.8	—	22.5	—	20.6	36.4	1	17 000	3700	0.51	1.23	1.91	1.29	232	18 000	18 600	0.111
1203-TVH	17	40	12	0.6	32.3	—	23.7	—	21.2	35.8	0.6	8 100	2000	0.33	1.93	2.99	2.03	124	22 000	23 600	0.073
2203-2RS-TVH	17	40	16	0.6	—	34.3	—	21.7	21.2	35.8	0.6	8 100	2000	0.33	1.93	2.99	2.03	124	14 000	—	0.098
2203-TVH	17	40	16	0.6	34.1	—	23.9	—	21.2	35.8	0.6	11 800	2750	0.46	1.37	2.12	1.43	171	19 000	19 300	0.054
1303-TVH	17	47	14	1	37.3	—	26.7	—	22.6	41.4	1	12 900	3150	0.32	1.94	3	2.03	197	18 000	18 500	0.065
2303-2RS-TVH	17	47	19	1	—	40.3	—	23.9	22.6	41.4	1	12 900	3150	0.32	1.94	3	2.03	197	11 000	—	0.175
2303-TVH	17	47	19	1	37.3	—	26.2	—	22.6	41.4	1	13 900	3150	0.53	1.19	1.85	1.25	197	17 000	16 900	0.155
1204-K-TVH-C3	20	47	14	1	38.1	—	29.2	—	25.6	41.4	1	10 100	2600	0.28	2.24	3.46	2.34	161	18 000	20 700	0.116
1204-TVH	20	47	14	1	38.1	—	29.2	—	25.6	41.4	1	10 100	2600	0.28	2.24	3.46	2.34	161	18 000	20 700	0.118
2204-2RS-TVH	20	47	18	1	—	41.7	—	25.9	25.6	41.4	1	10 100	2600	0.28	2.24	3.46	2.34	161	11 000	—	0.151
2204-TVH	20	47	18	1	39.5	—	28	—	25.6	41.4	1	14 700	3500	0.44	1.45	2.24	1.51	219	17 000	17 400	0.134
1304-TVH	20	52	15	1.1	41.9	—	31.6	—	27	45	1	12 700	3300	0.29	2.17	3.35	2.27	206	16 000	16 100	0.163
2304-2RS-TVH	20	52	21	1.1	—	45.2	—	27.2	27	45	1	12 700	3300	0.29	2.17	3.35	2.27	206	10 000	—	0.23
2304-TVH	20	52	21	1.1	41.5	—	29.1	—	27	45	1	17 600	4250	0.51	1.23	1.9	1.29	265	16 000	16 400	0.206
1205-K-TVH-C3	25	52	15	1	43.9	—	33.3	—	30.6	46.4	1	12 300	3250	0.27	2.37	3.66	2.48	203	16 000	18 100	0.135
1205-TVH	25	52	15	1	43.9	—	33.3	—	30.6	46.4	1	12 300	3250	0.27	2.37	3.66	2.48	203	16 000	18 100	0.138



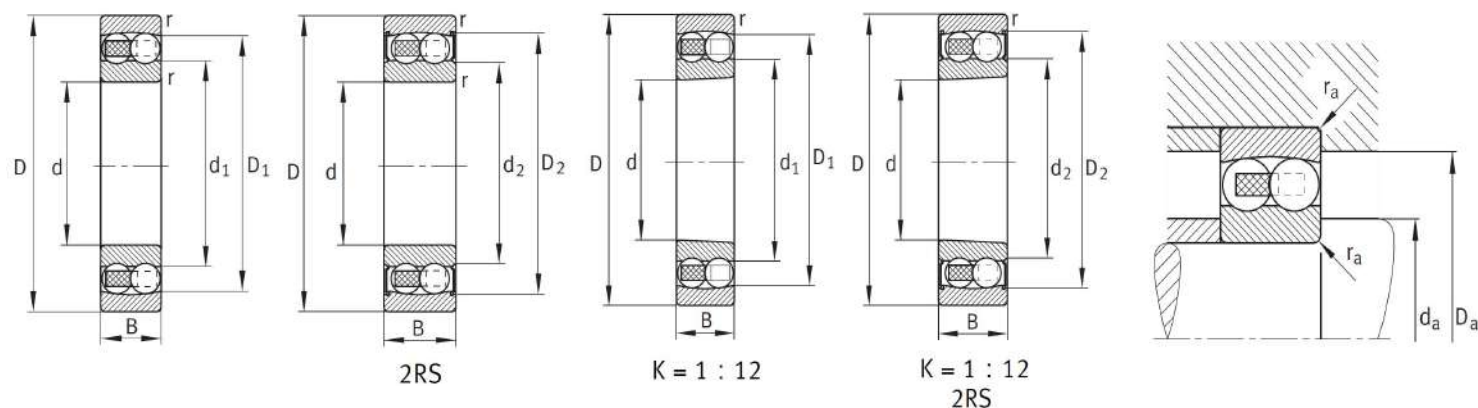
Bearing designation	Dimensions (mm)											Basic dynamic load rating	Basic static load rating	Computing coefficients				Fatigue load limit	Limiting speed	Reference speed	Mass
	d	D	B	r	D1	D2	d1	d2	da	Da	ra	C _r	C _{or}	e	Y1	Y2	Y0	Cur	nG	nB	m
				min.	≈	≈	≈	≈	min.	max.	max.	N	N					N	min-1	min-1	≈kg
2205-2RS-TVH	25	52	18	1	—	46.3	—	30.7	30.6	46.4	1	12 300	3250	0.27	2.37	3.66	2.48	203	9 500	—	0.161
2205-K-2RS-TVH-C3	25	52	18	1	—	46.3	—	30.7	30.6	46.4	1	12 300	3250	0.27	2.37	3.66	2.48	203	9 500	—	0.157
2205-K-TVH-C3	25	52	18	1	44.7	—	32.3	—	30.6	46.4	1	17 300	4400	0.35	1.78	2.75	1.86	275	15 000	14 900	0.152
2205-TVH	25	52	18	1	44.7	—	32.3	—	30.6	46.4	1	17 300	4400	0.35	1.78	2.75	1.86	275	15 000	14 900	0.156
1305-K-TVH-C3	25	62	17	1.1	50.8	—	38.1	—	32	55	1	18 300	4950	0.28	2.29	3.54	2.4	310	14 000	13 900	0.254
1305-TVH	25	62	17	1.1	50.8	—	38.1	—	32	55	1	18 300	4950	0.28	2.29	3.54	2.4	310	14 000	13 900	0.258
2305-2RS-TVH	25	62	24	1.1	—	53.2	—	33.5	32	55	1	18 300	4950	0.28	2.29	3.54	2.4	310	8 000	—	0.367
2305-K-TVH-C3	25	62	24	1.1	50.1	—	35.5	—	32	55	1	25 000	6500	0.48	1.32	2.04	1.38	405	13 000	14 100	0.328
2305-TVH	25	62	24	1.1	50.1	—	35.5	—	32	55	1	25 000	6500	0.48	1.32	2.04	1.38	405	13 000	14 100	0.335
1206-K-TVH-C3	30	62	16	1	51.9	—	40.1	—	35.6	56.4	1	15 900	4600	0.25	2.53	3.91	2.65	285	14 000	15 400	0.217
1206-TVH	30	62	16	1	51.9	—	40.1	—	35.6	56.4	1	15 900	4600	0.25	2.53	3.91	2.65	285	14 000	15 400	0.221
2206-2RS-TVH	30	62	20	1	—	54.3	—	37.3	35.6	56.4	1	15 900	4600	0.25	2.53	3.91	2.65	285	8 000	—	0.274
2206-K-2RS-TVH-C3	30	62	20	1	—	54.3	—	37.3	35.6	56.4	1	15 900	4600	0.25	2.53	3.91	2.65	285	8 000	—	0.268
2206-K-TVH-C3	30	62	20	1	54	—	38.5	—	35.6	56.4	1	26 000	6900	0.3	2.13	3.29	2.23	430	12 000	12 700	0.246
2206-TVH	30	62	20	1	54	—	38.5	—	35.6	56.4	1	26 000	6900	0.3	2.13	3.29	2.23	430	12 000	12 700	0.252
1306-K-TVH-C3	30	72	19	1.1	59.4	—	45	—	37	65	1	21 700	6300	0.26	2.39	3.71	2.51	390	11 000	12 200	0.379
1306-TVH	30	72	19	1.1	59.4	—	45	—	37	65	1	21 700	6300	0.26	2.39	3.71	2.51	390	11 000	12 200	0.384
2306-2RS-TVH	30	72	27	1.1	—	63	—	40.6	37	65	1	21 700	6300	0.26	2.39	3.71	2.51	390	6 700	—	0.554
2306-K-TVH-C3	30	72	27	1.1	59.3	—	41.5	—	37	65	1	32 500	8700	0.45	1.4	2.17	1.47	540	10 000	12 300	0.476
2306-TVH	30	72	27	1.1	59.3	—	41.5	—	37	65	1	32 500	8700	0.45	1.4	2.17	1.47	540	10 000	12 300	0.488
1207-K-TVH-C3	35	72	17	1.1	59.6	—	47.7	—	42	65	1	16 000	5100	0.22	2.8	4.34	2.94	315	12 000	13 200	0.319
1207-TVH	35	72	17	1.1	59.6	—	47.7	—	42	65	1	16 000	5100	0.22	2.8	4.34	2.94	315	12 000	13 200	0.324
2207-2RS-TVH	35	72	23	1.1	—	64.3	—	43.5	42	65	1	16 000	5100	0.22	2.8	4.34	2.94	315	7 000	—	0.442
2207-K-2RS-TVH-C3	35	72	23	1.1	—	64.3	—	43.5	42	65	1	16 000	5100	0.22	2.8	4.34	2.94	315	7 000	—	0.432
2207-K-TVH-C3	35	72	23	1.1	62.9	—	45.7	—	42	65	1	33 000	8900	0.3	2.13	3.29	2.23	560	9 500	11 500	0.38
2207-TVH	35	72	23	1.1	62.9	—	45.7	—	42	65	1	33 000	8900	0.3	2.13	3.29	2.23	560	9 500	11 500	0.389
1307-K-TVH-C3	35	80	21	1.5	67.5	—	51.3	—	44	71	1.5	25 500	7800	0.26	2.47	3.82	2.59	485	9 500	10 900	0.5
1307-TVH	35	80	21	1.5	67.5	—	51.3	—	44	71	1.5	25 500	7800	0.26	2.47	3.82	2.59	485	9 500	10 900	0.507
2307-2RS-TVH	35	80	31	1.5	—	69.1	—	44.9	44	71	1.5	25 500	7800	0.26	2.47	3.82	2.59	485	6 000	—	0.744
2307-K-TVH-C3	35	80	31	1.5	66.8	—	46.9	—	44	71	1.5	40 500	11 100	0.47	1.35	2.1	1.42	690	9 000	11 600	0.96



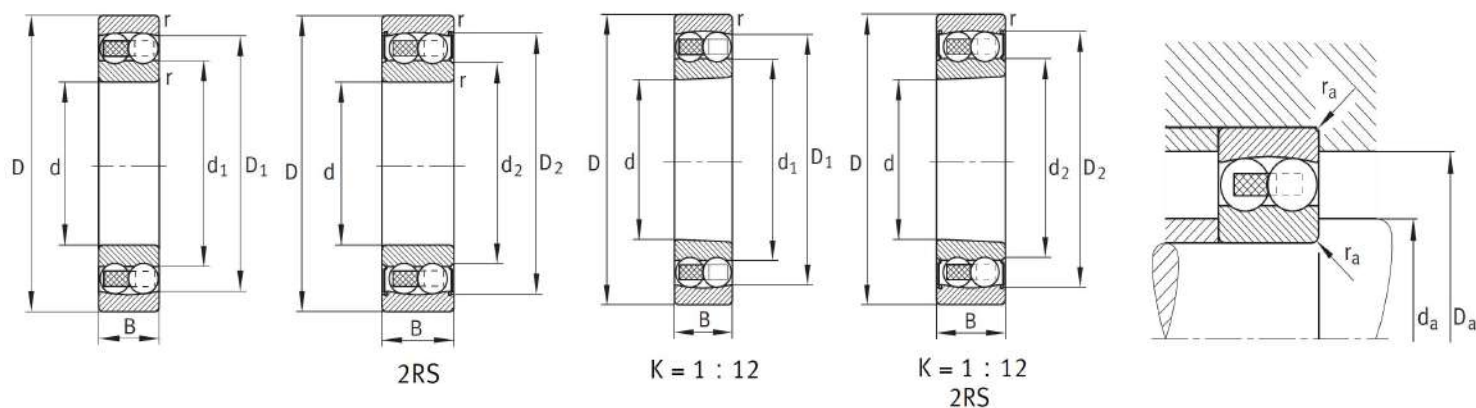
Bearing designation	Dimensions (mm)											Basic dynamic load rating	Basic static load rating	Computing coefficients				Fatigue load limit	Limiting speed	Reference speed	Mass
	d	D	B	r	D1	D2	d1	d2	da	Da	ra	C _r	C _{or}	e	Y1	Y2	Y0	Cur	nG	nB	m
				min.	≈	≈	≈	≈	min.	max.	max.	N	N					N	min-1	min-1	≈kg
2307-TVH	35	80	31	1.5	66.8	—	46.9	—	44	71	1.5	40 500	11 100	0.47	1.35	2.1	1.42	690	9 000	11 600	0.975
1208-K-TVH-C3	40	80	18	1.1	67.8	—	54	—	47	73	1	19 400	6500	0.22	2.9	4.49	3.04	400	10 000	11 600	0.408
1208-TVH	40	80	18	1.1	67.8	—	54	—	47	73	1	19 400	6500	0.22	2.9	4.49	3.04	400	10 000	11 600	0.414
2208-2RS-TVH	40	80	23	1.1	—	71.1	—	49.2	47	73	1	19 400	6500	0.22	2.9	4.49	3.04	400	6 300	—	0.528
2208-K-2RS-TVH-C3	40	80	23	1.1	—	71.1	—	49.2	47	73	1	19 400	6500	0.22	2.9	4.49	3.04	400	6 300	—	0.517
2208-K-TVH-C3	40	80	23	1.1	70.7	—	52.5	—	47	73	1	32 500	9400	0.26	2.43	3.76	2.54	580	9 000	9700	0.465
2208-TVH	40	80	23	1.1	70.7	—	52.5	—	47	73	1	32 500	9400	0.26	2.43	3.76	2.54	580	9 000	9700	0.476
1308-K-TVH-C3	40	90	23	1.5	75.3	—	57.8	—	49	81	1.5	30 000	9600	0.25	2.52	3.9	2.64	600	8 500	10 000	0.698
1308-TVH	40	90	23	1.5	75.3	—	57.8	—	49	81	1.5	30 000	9600	0.25	2.52	3.9	2.64	600	8 500	10 000	0.708
2308-2RS-TVH	40	90	33	1.5	—	78	—	51	49	81	1.5	30 000	9600	0.25	2.52	3.9	2.64	600	5 300	—	1.01
2308-K-TVH-C3	40	90	33	1.5	75	—	53.7	—	49	81	1.5	46 000	13 400	0.43	1.45	2.25	1.52	830	8 000	10 300	0.899
2308-TVH	40	90	33	1.5	75	—	53.7	—	49	81	1.5	46 000	13 400	0.43	1.45	2.25	1.52	830	8 000	10 300	0.922
1209-K-TVH-C3	45	85	19	1.1	72.7	—	57.7	—	52	78	1	22 000	7300	0.21	3.04	4.7	3.18	455	9 000	11 100	0.454
1209-TVH	45	85	19	1.1	72.7	—	57.7	—	52	78	1	22 000	7300	0.21	3.04	4.7	3.18	455	9 000	11 100	0.462
2209-2RS-TVH	45	85	23	1.1	—	75.4	—	53.8	52	78	1	22 000	7300	0.21	3.04	4.7	3.18	455	5 600	—	0.548
2209-K-2RS-TVH-C3	45	85	23	1.1	—	75.4	—	53.8	52	78	1	22 000	7300	0.21	3.04	4.7	3.18	455	5 600	—	0.535
2209-K-TVH-C3	45	85	23	1.1	75.9	—	59	—	52	78	1	28 500	8900	0.26	2.43	3.76	2.54	550	8 500	8700	0.505
2209-TVH	45	85	23	1.1	75.9	—	59	—	52	78	1	28 500	8900	0.26	2.43	3.76	2.54	550	8 500	8700	0.517
1309-K-TVH-C3	45	100	25	1.5	84.1	—	64.1	—	54	91	1.5	38 500	12 600	0.25	2.5	3.87	2.62	780	7 500	9300	0.939
1309-TVH	45	100	25	1.5	84.1	—	64.1	—	54	91	1.5	38 500	12 600	0.25	2.5	3.87	2.62	780	7 500	9300	0.953
2309-2RS-TVH	45	100	36	1.5	—	86.6	—	57.5	54	91	1.5	38 500	12 600	0.25	2.5	3.87	2.62	780	4 800	—	1.34
2309-K-TVH-C3	45	100	36	1.5	84.2	—	60.1	—	54	91	1.5	55 000	16 500	0.43	1.48	2.29	1.55	1030	7 000	9400	1.19
2309-TVH	45	100	36	1.5	84.2	—	60.1	—	54	91	1.5	55 000	16 500	0.43	1.48	2.29	1.55	1030	7 000	9400	1.22
1210-K-TVH-C3	50	90	20	1.1	77.6	—	62.7	—	57	83	1	22 900	8000	0.2	3.17	4.9	3.32	500	8 500	10 500	0.516
1210-TVH	50	90	20	1.1	77.6	—	62.7	—	57	83	1	22 900	8000	0.2	3.17	4.9	3.32	500	8 500	10 500	0.526
2210-2RS-TVH	50	90	23	1.1	—	80	—	60.6	57	83	1	22 900	8000	0.2	3.17	4.9	3.32	500	5 300	—	0.606
2210-K-2RS-TVH-C3	50	90	23	1.1	—	80	—	60.6	57	83	1	22 900	8000	0.2	3.17	4.9	3.32	500	5 300	—	0.593
2210-K-TVH-C3	50	90	23	1.1	81	—	64	—	57	83	1	28 500	9400	0.24	2.61	4.05	2.74	580	8 000	8000	0.543
2210-TVH	50	90	23	1.1	81	—	64	—	57	83	1	28 500	9400	0.24	2.61	4.05	2.74	580	8 000	8000	0.556
1310-K-TVH-C3	50	110	27	2	91.9	—	71.2	—	61	99	2	42 000	14 100	0.24	2.6	4.03	2.73	880	6 700	8700	1.52



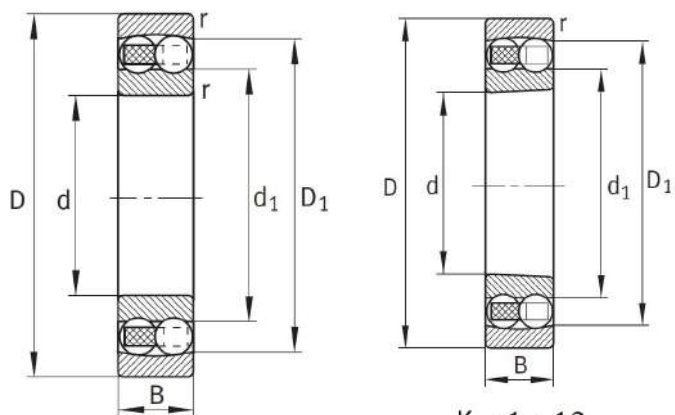
Bearing designation	Dimensions (mm)											Basic dynamic load rating	Basic static load rating	Computing coefficients				Fatigue load limit	Limiting speed	Reference speed	Mass
	d	D	B	r	D1	D2	d1	d2	da	Da	ra	C _r	C _{or}	e	Y1	Y2	Y0	Cur	nG	nB	m
				min.	≈	≈	≈	≈	min.	max.	max.	N	N					N	min-1	min-1	≈kg
1310-TVH	50	110	27	2	91.9	—	71.2	—	61	99	2	42 000	14 100	0.24	2.6	4.03	2.73	880	6 700	8700	1.54
2310-2RS-TVH	50	110	40	2	—	96	—	65.9	61	99	2	42 000	14 100	0.24	2.6	4.03	2.73	880	4 300	—	1.82
2310-TVH	50	110	40	2	92	—	66.9	—	61	99	2	66 000	19 900	0.43	1.47	2.27	1.54	1240	6 300	9000	1.64
1211-K-TVH-C3	55	100	21	1.5	86.9	—	69.5	—	64	91	1.5	27 000	9900	0.19	3.31	5.12	3.47	620	7 500	9300	0.682
1211-TVH	55	100	21	1.5	86.9	—	69.5	—	64	91	1.5	27 000	9900	0.19	3.31	5.12	3.47	620	7 500	9300	0.693
2211-2RS-TVH	55	100	25	1.5	—	88.9	—	68	64	91	1.5	27 000	9900	0.19	3.31	5.12	3.47	620	4 800	—	0.825
2211-K-2RS-TVH-C3	55	100	25	1.5	—	88.9	—	68	64	91	1.5	27 000	9900	0.19	3.31	5.12	3.47	620	4 800	—	0.808
2211-K-TVH-C3	55	100	25	1.5	90	—	69.6	—	64	91	1.5	39 000	12 400	0.22	2.92	4.52	3.06	770	6 700	7500	0.73
2211-TVH	55	100	25	1.5	90	—	69.6	—	64	91	1.5	39 000	12 400	0.22	2.92	4.52	3.06	770	6 700	7500	0.746
1311-K-TVH-C3	55	120	29	2	101.6	—	78	—	66	109	2	52 000	17 700	0.24	2.66	4.12	2.79	1100	6 000	8100	1.55
1311-TVH	55	120	29	2	101.6	—	78	—	66	109	2	52 000	17 700	0.24	2.66	4.12	2.79	1100	6 000	8100	1.57
2311-2RS-TVH	55	120	43	2	—	107	—	70.5	66	109	2	52 000	17 700	0.24	2.66	4.12	2.79	1100	3 800	—	2.28
2311-K-TVH-C3	55	120	43	2	100.7	—	71.7	—	66	109	2	77 000	23 800	0.42	1.51	2.33	1.58	1480	5 600	8500	2.02
2311-TVH	55	120	43	2	100.7	—	71.7	—	66	109	2	77 000	23 800	0.42	1.51	2.33	1.58	1480	5 600	8500	2.07
1212-K-TVH-C3	60	110	22	1.5	95.8	—	78	—	69	101	1.5	30 500	11 400	0.18	3.47	5.37	3.64	710	6 700	8500	0.88
1212-TVH	60	110	22	1.5	95.8	—	78	—	69	101	1.5	30 500	11 400	0.18	3.47	5.37	3.64	710	6 700	8500	0.894
2212-2RS-TVH	60	110	28	1.5	—	98.5	—	70.4	69	101	1.5	30 500	11 400	0.18	3.47	5.37	3.64	710	4 300	—	1.13
2212-K-2RS-TVH-C3	60	110	28	1.5	—	98.5	—	70.4	69	101	1.5	30 500	11 400	0.18	3.47	5.37	3.64	710	4 300	—	1.13
2212-K-TVH-C3	60	110	28	1.5	98.8	—	76.6	—	69	101	1.5	48 000	16 300	0.23	2.69	4.16	2.82	1020	6 300	7100	1.03
2212-TVH	60	110	28	1.5	98.8	—	76.6	—	69	101	1.5	48 000	16 300	0.23	2.69	4.16	2.82	1020	6 300	7100	1.06
1312-K-TVH-C3	60	130	31	2.1	112.2	—	87	—	72	118	2.1	58 000	20 600	0.23	2.77	4.28	2.9	1280	5 300	7300	1.94
1312-TVH	60	130	31	2.1	112.2	—	87	—	72	118	2.1	58 000	20 600	0.23	2.77	4.28	2.9	1280	5 300	7300	1.97
2312-K-TVH-C3	60	130	46	2.1	109.1	—	77	—	72	118	2.1	89 000	28 000	0.41	1.55	2.4	1.62	1740	5 000	8000	2.52
2312-TVH	60	130	46	2.1	109.1	—	77	—	72	118	2.1	89 000	28 000	0.41	1.55	2.4	1.62	1740	5 000	8000	2.58
1213-K-TVH-C3	65	120	23	1.5	103.2	—	85.2	—	74	111	1.5	31 000	12 400	0.18	3.57	5.52	3.74	770	6 300	7900	1.13
1213-TVH	65	120	23	1.5	103.2	—	85.2	—	74	111	1.5	31 000	12 400	0.18	3.57	5.52	3.74	770	6 300	7900	1.14
2213-2RS-TVH	65	120	31	1.5	—	106.6	—	78	74	111	1.5	31 000	12 400	0.18	3.57	5.52	3.74	770	4 000	—	1.53
2213-K-2RS-TVH-C3	65	120	31	1.5	—	106.6	—	78	74	111	1.5	31 000	12 400	0.18	3.57	5.52	3.74	770	4 000	—	1.5
2213-K-TVH-C3	65	120	31	1.5	107.5	—	82.4	—	74	111	1.5	58 000	19 000	0.23	2.78	4.31	2.92	1190	5 300	6900	1.33
2213-TVH	65	120	31	1.5	107.5	—	82.4	—	74	111	1.5	58 000	19 000	0.23	2.78	4.31	2.92	1190	5 300	6900	1.36



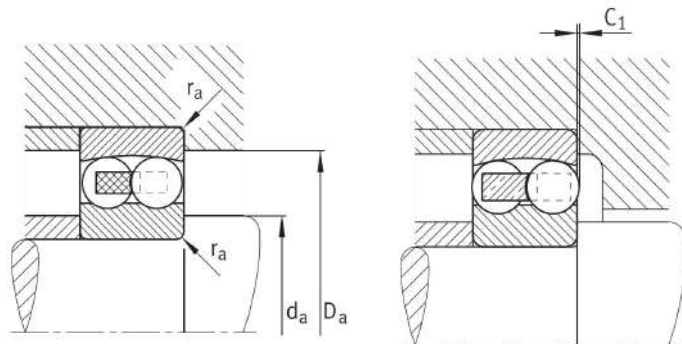
Bearing designation	Dimensions (mm)											Basic dynamic load rating	Basic static load rating	Computing coefficients				Fatigue load limit	Limiting speed	Reference speed	Mass
	d	D	B	r	D1	D2	d1	d2	da	Da	ra	C _r	C _{or}	e	Y1	Y2	Y0	Cur	nG	nB	m
				min.	≈	≈	≈	≈	min.	max.	max.	N	N					N	min-1	min-1	≈kg
1313-K-TVH-C3	65	140	33	2.1	118.8	—	92.7	—	77	128	2.1	63 000	22 700	0.23	2.75	4.26	2.88	1380	5 000	7100	2.41
1313-TVH	65	140	33	2.1	118.8	—	92.7	—	77	128	2.1	63 000	22 700	0.23	2.75	4.26	2.88	1380	5 000	7100	2.44
2313-K-TVH-C3	65	140	48	2.1	118.9	—	85.6	—	77	128	2.1	98 000	32 000	0.39	1.62	2.51	1.7	1980	4 800	7300	3.16
2313-TVH	65	140	48	2.1	118.9	—	85.6	—	77	128	2.1	98 000	32 000	0.39	1.62	2.51	1.7	1980	4 800	7300	3.23
1214-K-TVH-C3	70	125	24	1.5	106.6	—	87.7	—	79	116	1.5	35 000	13 700	0.19	3.36	5.21	3.52	850	6 000	7900	1.23
1214-TVH	70	125	24	1.5	106.6	—	87.7	—	79	116	1.5	35 000	13 700	0.19	3.36	5.21	3.52	850	6 000	7900	1.25
2214-2RS-TVH	70	125	31	1.5	—	111.4	—	84.7	79	116	1.5	35 000	13 700	0.19	3.36	5.21	3.52	850	3 800	—	1.59
2214-M	70	125	31	1.5	108.9	—	87.6	—	79	116	1.5	44 000	16 900	0.27	2.34	3.62	2.45	1050	8 500	6600	1.69
1314-M	70	150	35	2.1	126.4	—	97.7	—	82	138	2.1	75 000	27 500	0.23	2.79	4.32	2.93	1620	7 000	6900	3.22
2314-M	70	150	51	2.1	127.2	—	91.5	—	82	138	2.1	112 000	37 000	0.38	1.65	2.55	1.73	2210	6 300	6900	4.38
1215-K-TVH-C3	75	130	25	1.5	114.1	—	93.7	—	84	121	1.5	39 000	15 500	0.19	3.32	5.15	3.48	950	5 600	7400	1.32
1215-TVH	75	130	25	1.5	114.1	—	93.7	—	84	121	1.5	39 000	15 500	0.19	3.32	5.15	3.48	950	5 600	7400	1.34
2215-K-TVH-C3	75	130	31	1.5	114.3	—	93.3	—	84	121	1.5	44 500	17 600	0.26	2.47	3.82	2.59	1080	5 300	6200	1.6
2215-TVH	75	130	31	1.5	114.3	—	93.3	—	84	121	1.5	44 500	17 600	0.26	2.47	3.82	2.59	1080	5 300	6200	1.6
1315-K-M-C3	75	160	37	2.1	134.8	—	104.4	—	87	148	2.1	80 000	29 500	0.23	2.77	4.29	2.9	1690	6 300	6600	3.81
1315-M	75	160	37	2.1	134.8	—	104.4	—	87	148	2.1	80 000	29 500	0.23	2.77	4.29	2.9	1690	6 300	6600	3.86
2315-K-M-C3	75	160	55	2.1	136.7	—	100.5	—	87	148	2.1	124 000	42 000	0.38	1.64	2.54	1.72	2420	6 000	6700	5.21
2315-M	75	160	55	2.1	136.7	—	100.5	—	87	148	2.1	124 000	42 000	0.38	1.64	2.54	1.72	2420	6 000	6700	5.33
1216-K-TVH-C3	80	140	26	2	122.1	—	102	—	91	129	2	40 000	16 800	0.16	3.9	6.03	4.08	990	5 000	6800	1.62
1216-TVH	80	140	26	2	122.1	—	102	—	91	129	2	40 000	16 800	0.16	3.9	6.03	4.08	990	5 000	6800	1.65
2216-K-TVH-C3	80	140	33	2	120.8	—	99.5	—	91	129	2	49 500	19 800	0.25	2.48	3.84	2.6	1180	5 000	6000	1.97
2216-TVH	80	140	33	2	120.8	—	99.5	—	91	129	2	49 500	19 800	0.25	2.48	3.84	2.6	1180	5 000	6000	2.01
1316-K-M-C3	80	170	39	2.1	144.3	—	110.2	—	92	158	2.1	89 000	33 000	0.22	2.87	4.44	3	1810	6 000	6300	4.5
1316-M	80	170	39	2.1	144.3	—	110.2	—	92	158	2.1	89 000	33 000	0.22	2.87	4.44	3	1810	6 000	6300	4.56
2316-K-M-C3	80	170	58	2.1	144.5	—	107.6	—	92	158	2.1	139 000	48 500	0.37	1.7	2.62	1.78	2700	5 600	6400	6.18
2316-M	80	170	58	2.1	144.5	—	107.6	—	92	158	2.1	139 000	48 500	0.37	1.7	2.62	1.78	2700	5 600	6400	6.31
1217-K-TVH-C3	85	150	28	2	130.4	—	107.5	—	96	139	2	49 500	20 600	0.17	3.73	5.78	3.91	1180	4 800	6700	2.03
1217-TVH	85	150	28	2	130.4	—	107.5	—	96	139	2	49 500	20 600	0.17	3.73	5.78	3.91	1180	4 800	6700	2.07
2217-K-M-C3	85	150	36	2	130	—	105.2	—	96	139	2	59 000	23 400	0.26	2.46	3.81	2.58	1340	7 000	5800	2.73
2217-M	85	150	36	2	130	—	105.2	—	96	139	2	59 000	23 400	0.26	2.46	3.81	2.58	1340	7 000	5800	2.79



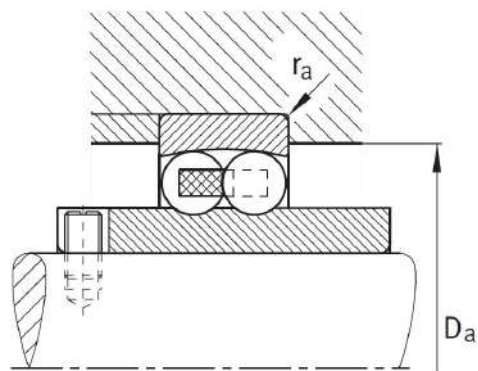
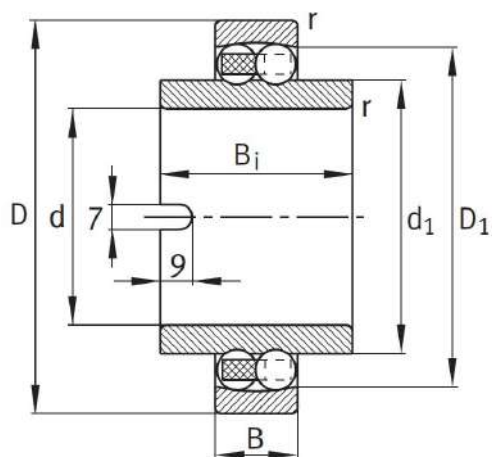
Bearing designation	Dimensions (mm)											Basic dynamic load rating	Basic static load rating	Computing coefficients				Fatigue load limit	Limiting speed	Reference speed	Mass
	d	D	B	r	D1	D2	d1	d2	da	Da	ra	C _r	C _{or}	e	Y1	Y2	Y0	Cur	nG	nB	m
				min.	≈	≈	≈	≈	min.	max.	max.	N	N					N	min-1	min-1	≈kg
1317-K-M-C3	85	180	41	3	152	—	117.2	—	99	166	2.5	99 000	37 500	0.22	2.88	4.46	3.02	2010	5 600	6000	5.32
1317-M	85	180	41	3	152	—	117.2	—	99	166	2.5	99 000	37 500	0.22	2.88	4.46	3.02	2010	5 600	6000	5.39
2317-K-M-C3	85	180	60	3	153.3	—	114	—	99	166	2.5	143 000	51 000	0.37	1.68	2.61	1.76	2750	5 300	6100	7.36
2317-M	85	180	60	3	153.3	—	114	—	99	166	2.5	143 000	51 000	0.37	1.68	2.61	1.76	2750	5 300	6100	7.35
1218-K-TVH-C3	90	160	30	2	138.7	—	112.7	—	101	149	2	57 000	23 300	0.17	3.74	5.79	3.92	1300	4 500	6600	2.48
1218-TVH	90	160	30	2	138.7	—	112.7	—	101	149	2	57 000	23 300	0.17	3.74	5.79	3.92	1300	4 500	6600	2.52
2218-K-TVH-C3	90	160	40	2	139.4	—	111.5	—	101	149	2	71 000	28 500	0.27	2.33	3.61	2.44	1580	4 300	5700	3.18
2218-TVH	90	160	40	2	139.4	—	111.5	—	101	149	2	71 000	28 500	0.27	2.33	3.61	2.44	1580	4 300	5700	3.18
1318-K-M-C3	90	190	43	3	159.9	—	124.4	—	104	176	2.5	109 000	42 500	0.22	2.83	4.38	2.97	2230	5 300	5800	6.27
1318-M	90	190	43	3	159.9	—	124.4	—	104	176	2.5	109 000	42 500	0.22	2.83	4.38	2.97	2230	5 300	5800	6.35
2318-K-M-C3	90	190	64	3	161	—	115.7	—	104	176	2.5	156 000	57 000	0.39	1.63	2.53	1.71	3000	5 000	5900	8.6
2318-M	90	190	64	3	161	—	115.7	—	104	176	2.5	156 000	57 000	0.39	1.63	2.53	1.71	3000	5 000	5900	8.78



K = 1 : 12



Bearing designation	Dimensions (mm)											Basic dynamic load rating	Basic static load rating	Computing coefficients				Fatigue load limit	Limiting speed	Reference speed	Mass
	d	D	B	r	D1	D2	d1	C1	da	Da	ra	C _r	C _{or}	e	Y1	Y2	Y0	Cur	nG	nB	m
				min.	≈	≈	≈		min.	max.	max.	N	N					N	min-1	min-1	≈kg
1219-K-M-C3	95	170	32	2.1	148.2	-	120.5	-	107	158	2.1	64 000	27 000	0.17	3.73	5.78	3.91	1450	6 000	6200	3.28
1219-M	95	170	32	2.1	148.2	-	120.5	-	107	158	2.1	64 000	27 000	0.17	3.73	5.78	3.91	1450	6 000	6200	3.32
2219-K-M-C3	95	170	43	2.1	148.6	-	118.9	-	107	158	2.1	84 000	34 000	0.27	2.32	3.59	2.43	1840	6 000	5600	4.24
2219-M	95	170	43	2.1	148.6	-	118.9	-	107	158	2.1	84 000	34 000	0.27	2.32	3.59	2.43	1840	6 000	5600	4.33
1319-K-M-C3	95	200	45	3	170.5	-	127.7	1.6	109	186	2.5	134 000	50 000	0.23	2.73	4.23	2.86	2550	5 000	5700	7.2
1319-M	95	200	45	3	170.5	-	127.6	1.6	109	186	2.5	134 000	50 000	0.23	2.73	4.23	2.86	2550	5 000	5700	7.29
2319-K-M-C3	95	200	67	3	168.5	-	121.6	-	109	186	2.5	167 000	63 000	0.38	1.66	2.57	1.74	3250	4 800	5600	9.97
2319-M	95	200	67	3	168.5	-	121.6	-	109	186	2.5	167 000	63 000	0.38	1.66	2.57	1.74	3250	4 800	5600	10.2
1220-K-M-C3	100	180	34	2.1	155.2	-	127.7	-	112	168	2.1	70 000	29 500	0.18	3.58	5.53	3.75	1550	5 600	6100	3.94
1220-M	100	180	34	2.1	155.2	-	127.7	-	112	168	2.1	70 000	29 500	0.18	3.58	5.53	3.75	1550	5 600	6100	3.99
2220-K-M-C3	100	180	46	2.1	156.9	-	124.4	-	112	168	2.1	98 000	40 000	0.27	2.33	3.61	2.44	2120	5 600	5400	5.1
2220-M	100	180	46	2.1	156.9	-	124.4	-	112	168	2.1	98 000	40 000	0.27	2.33	3.61	2.44	2120	5 600	5400	5.21
1320-K-M-C3	100	215	47	3	182.6	-	135.5	2.4	114	201	2.5	145 000	57 000	0.24	2.68	4.15	2.81	2800	4 800	5400	8.95
1320-M	100	215	47	3	182.6	-	135.5	2.4	114	201	2.5	145 000	57 000	0.24	2.68	4.15	2.81	2800	4 800	5400	9.06
2320-K-M-C3	100	215	73	3	183	-	130.8	-	114	201	2.5	196 000	78 000	0.38	1.67	2.58	1.75	3900	4 500	5200	12.7
2320-M	100	215	73	3	183	-	130.8	-	114	201	2.5	196 000	78 000	0.38	1.67	2.58	1.75	3900	4 500	5200	12.9
1221-M	105	190	36	2.1	164.4	-	133.9	-	117	178	2.1	75 000	32 000	0.18	3.54	5.48	3.71	1640	5 300	5900	4.75
1321-M	105	225	49	3	191.3	-	143.2	2.5	119	211	2.5	158 000	64 000	0.23	2.75	4.25	2.88	3100	4 500	5200	10.3
1222-K-M-C3	110	200	38	2.1	173.9	-	140.7	-	122	188	2.1	89 000	38 000	0.17	3.61	5.59	3.78	1900	5 000	5700	5.49
1222-M	110	200	38	2.1	173.9	-	140.7	-	122	188	2.1	89 000	38 000	0.17	3.61	5.59	3.78	1900	5 000	5700	5.57
2222-K-M-C3	110	200	53	2.1	174.1	-	136.9	-	122	188	2.1	126 000	51 000	0.28	2.23	3.45	2.33	2550	5 000	5200	7.27
2222-M	110	200	53	2.1	174.1	-	136.9	-	122	188	2.1	126 000	51 000	0.28	2.23	3.45	2.33	2550	5 000	5200	7.45
1322-K-M-C3	110	240	50	3	203.2	-	154.7	2.7	124	226	2.5	165 000	71 000	0.23	2.79	4.32	2.92	3300	4 500	4700	12.2
1322-M	110	240	50	3	203.2	-	154.5	2.7	124	226	2.5	165 000	71 000	0.23	2.79	4.32	2.92	3300	4 500	4700	12.3
2322-K-M-C3	110	240	80	3	203	-	145.5	-	124	226	2.5	221 000	94 000	0.37	1.69	2.62	1.77	4400	4 300	4600	17.5
2322-M	110	240	80	3	203	-	145.5	-	124	226	2.5	221 000	94 000	0.37	1.69	2.62	1.77	4400	4 300	4600	18.1
1224-M	120	215	42	2.1	187.3	-	149	1.8	132	203	2.1	121 000	52 000	0.2	3.11	4.81	3.25	2500	4 800	5600	7.13
1226-M	130	230	46	3	200.1	-	161.5	0.6	144	216	2.5	125 000	55 000	0.19	3.24	5.02	3.4	2550	4 500	5400	8.67
1228-M	140	250	50	3	221.2	-	175	2.7	154	236	2.5	163 000	74 000	0.21	3.05	4.71	3.19	3300	4 300	4950	11.2
1230-M	150	270	54	3	237.9	-	186.7	3.8	164	256	2.5	180 000	86 000	0.22	2.9	4.49	3.04	3700	3 800	4550	14.6



Bearing designation	Dimensions (mm)											Basic dynamic load rating	Basic static load rating	Computing coefficients				Fatigue load limit	Limiting speed	Reference speed	Mass
	d	D	B	r	B _i	D ₁	d ₁	C ₁	d _a	D _a	r _a	C _r	C _{or}	e	Y ₁	Y ₂	Y ₀	C _{ur}	n _G	n _B	m
				min.		≈	≈		min.	max.	max.	N	N					N	min-1	min-1	≈kg
11204-TVH	20	47	14	1	40	38.1	29.2	-	-	41.4	1	10 100	2 600	0.28	2.24	3.46	2.34	161	13 000	-	0.085
11205-TVH	25	52	15	1	44	43.9	33.3	-	-	46.4	1	12 300	3 250	0.27	2.37	3.66	2.48	203	10 000	-	0.226
11206-TVH	30	62	16	1	48	51.9	40.1	-	-	56.4	1	15 900	4 600	0.25	2.53	3.91	2.65	285	8500	-	0.364
11207-TVH	35	72	17	1.1	52	59.6	47.7	-	-	65	1	16 000	5 100	0.22	2.8	4.34	2.94	315	7500	-	0.554
11208-TVH	40	80	18	1.1	56	67.8	54	-	-	73	1	19 400	6 500	0.22	2.9	4.49	3.04	400	6700	-	0.722
11209-TVH	45	85	19	1.1	58	72.7	57.7	-	-	78	1	22 000	7 300	0.21	3.04	4.7	3.18	455	6000	-	0.78
11210-TVH	50	90	20	1.1	58	77.6	62.7	-	-	83	1	22 900	8 000	0.2	3.17	4.9	3.32	500	5600	-	0.866
11211-TVH	55	100	21	1.5	60	86.9	69.5	-	-	91	1.5	27 000	9 900	0.19	3.31	5.12	3.47	620	5000	-	1.13
11212-TVH	60	110	22	1.5	62	95.8	78	-	-	101	1.5	30 500	11 400	0.18	3.47	5.37	3.64	710	4500	-	1.51



Shaanxi Gainhui Heavy Industries Co., Ltd.
Bearing Manufacturer And Supplier In China

BECAUSE WE ARE FOCUSED WE ARE PROFESSIONAL

We are committed to providing competitive bearing products and OEM services to global customers.



Founded in 2009, Shaanxi Gainhui Heavy Industries Co., Ltd. covers an area of 16,000 square meters, which is a professional bearing manufacturer and distributor in China. The company is committed to the design, manufacture and service of precision bearings, focusing on providing customers with reliable bearing products and cost-effective technical solutions.

The company adopts advanced production equipment and testing equipment, is equipped with a professional quality testing department, formulates a complete quality management system, and specializes in the production of high-precision, low-noise, and long-life bearings. Shaanxi Gainhui Heavy Industries Co., Ltd. insists on quality as the core, innovation as the driving force, promotes development through service, and sincerely provides services to customers all over the world.



Contact us:

Website: www.ghbearings.com

Tel: +86-029-88692376

Mob/WhatsApp: +86-18710850036

Skype: tina.li72

E-mail: info@ghbearings.com

Add: NO.196, Changan South Road,
Xi'an City, Shaanxi Province, China

