

General Purpose Retaining Ring Ball Bearings **SKF** **TIMKEN**

Have a groove cut in the outer ring of the bearing to accommodate a snap ring that holds the bearing in place and provides a shoulder to prevent movement. Bearings are suitable for high rotational speeds and can accommodate radial and axial loads in both directions.

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Outer Ring Width (mm)	SKF Open		SKF Double Sealed		SKF Double Shielded		TIMKEN Open		TIMKEN Double Sealed		TIMKEN Single Shielded	
				Dyn. Radial Load Cap.	Item No.	Dyn. Radial Load Cap.	Item No.	Dyn. Radial Load Cap.	Item No.	Dyn. Radial Load Cap.	Item No.	Dyn. Radial Load Cap.	Item No.	Dyn. Radial Load Cap.	Item No.
6205	25	52	15	14.8 kN	23Y220	3,300 lbf	23Y216	14.8 kN	23Y218	—	—	—	—	—	—
6201	12	32	10	—	—	1,700 lbf	23Y192	7.28 kN	23Y194	—	—	—	—	—	—
6202	15	35	11	—	—	1,800 lbf	23Y197	8.06 kN	23Y199	9,390 N	44Z806	9,390 N	44Z808	—	—
6203	17	40	12	—	—	2,200 lbf	23Y204	9.95 kN	23Y206	10,600 N	44Z812	2,450 lbf	44Z814	—	—
6204	20	47	14	—	—	3,000 lbf	23Y210	13.5 kN	23Y212	—	—	—	—	—	—
6206	30	62	16	—	—	4,600 lbf	23Y222	20.3 kN	23Y224	5,000 lbf	44Z825	21,600 N	44Z827	—	—
6307	35	80	21	—	—	7,900 lbf	36D462	35.1 kN	36D464	37,100 N	44Z961	—	—	37,100 N	44Z960
6309	45	100	25	—	—	12,400 lbf	36D474	55.3 kN	36D476	—	—	—	—	—	—
6207	35	72	17	—	—	6,100 lbf	23Y228	27 kN	23Y230	—	—	—	—	—	—
6208	40	80	18	—	—	7,300 lbf	23Y234	—	—	—	—	—	—	—	—
6306	30	72	19	—	—	6,700 lbf	36D456	—	—	—	—	—	—	—	—



44Z808



General Purpose Thin-Section Bearings

Feature a narrow design that is lightweight and requires less space than standard bearings. Double sealed. The bearing's thin profile allows for more design flexibility and running precision. Suitable for use in applications where corrosion is not a concern.

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Outer Ring Width (mm)	Dyn. Radial Load Cap.	Item No.
61800	10	19	5	410 lbf	35JA77
61801	12	21	5	430 lbf	35JA78
61802	15	24	5	470 lbf	35JA79
61803	17	26	5	630 lbf	35JA80
61804	20	32	7	900 lbf	35JA81
61805	25	37	7	1,010 lbf	35JA82
61806	30	42	7	1,060 lbf	35JA83
61807	35	47	7	1,100 lbf	35JA84
61807	35	47	7	1,100 lbf	35JA73
61808	40	52	7	1,140 lbf	35JA74
61808	40	52	7	1,140 lbf	35JA85
61810	50	65	7	1,480 lbf	35JA87
61900	10	22	6	610 lbf	35JA99
61901	12	24	6	650 lbf	35JA89
61901	12	24	6	650 lbf	35JC01
61902	15	28	7	980 lbf	35JC02
61903	17	30	7	1,040 lbf	35JC03
61904	20	37	9	1,440 lbf	35JC04
61905	25	42	9	1,590 lbf	35JC05
61906	30	47	9	1,630 lbf	35JC06
61908	40	62	12	3,080 lbf	35JC08
61909	45	68	12	3,400 lbf	35JC09
61910	50	72	12	3,500 lbf	35JC10



35JA77



High-Clearance Double-Row Angular Contact Bearings

Have more space within the bearing housing; ideal when there is an increased press fit on the housing, elevated temps. that may cause expansion, or a slight misalignment between the housing and shaft. Handle axial and radial loads. Double row design provides for multi-directional axial load and allows bearings to act as a matching set of singular bearings arranged back-to-back, or a duplex, saving space on the shaft.



35HY94

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Overall Width (mm)	Double Shielded		Double Sealed	
				Dyn. Radial Load Cap.	Item No.	Dyn. Radial Load Cap.	Item No.
5200	10	30	14.3	7,100 N	35HY85	7,100 N	35HY94
3201/5201	12	32	15.9	10,200 N	35HY86	10,200 N	35HY95
3202/5202	15	35	15.9	11,600 N	35HY87	11,600 N	35HY96
3203/5203	17	40	17.5	14,700 N	35HY88	14,700 N	35HY97
3204/5204	20	47	20.6	19,600 N	35HY89	19,600 N	35HY98
3304/5304	20	52	22.2	21,400 N	35HZ06	21,400 N	35HZ13
3205/5205	25	52	20.6	20,900 N	35HY90	20,900 N	35HY99
3305/5305	25	62	25.4	30,200 N	35HZ07	30,200 N	35HZ14
3206/5206	30	62	23.8	28,500 N	35HY91	28,500 N	35HZ01
3306/5306	30	72	30.2	39,100 N	35HZ08	39,100 N	35HZ15
3207/5207	35	72	27	37,800 N	35HY92	37,800 N	35HZ02
3208/5208	40	80	30.2	42,700 N	35HY93	42,700 N	35HZ03
3308/5308	40	90	36.5	60,500 N	35HZ10	60,500 N	35HZ17



Flanged Ball Bearings

Feature a flange at one end of the bearing that provides a thrust surface to support radial loads and light axial loads. The flange also assists with aligning and mounting the bearing to the shaft and reduces bearing slippage. **General Purpose** are for use in applications that operate at high speeds with low loads. They have a single row of ball rollers and are designed for radial loads, but can support some axial movement. **Unground Flanged Radial** have very low precision tolerance levels making them suitable for applications that do not require high precision movement such as garden wheels, trailer jacks, and hoists.



1ZGE3

Note: Additional types and sizes, including metric, are available on Grainger.com.

Bearing Industry Number	Bore Dia. (in)	Outside Dia. (in)	Outer Ring Width (in)	Flange Dia. (in)	Flange Thickness (in)	Dyn. Radial Load Cap. (lbf)	Double Sealed Item No.	Double Shielded Item No.
General Purpose Flanged Ball Bearings, Dayton								
R3	3/16	1/2	0.196	0.565	0.042	292	1ZGE5	1ZGD9
R4	1/4	5/8	0.196	0.69	0.042	333	1ZGE6	1ZGE1
R6	3/8	7/8	0.281	0.969	0.062	749	1ZGE7	1ZGE2
R8	1/2	1 1/8	0.312	1.225	0.062	884	1ZGE8	1ZGE3

Bearing Industry Number	Closure	Bore Dia. (in)	Outside Dia. (in)	Outer Ring Width (in)	Flange Dia. (in)	Flange Thickness (in)	Dyn. Radial Load Cap. (lbf)	Item No.
Unground Flanged Radial Ball Bearings, Schatz Bearing								
AF4044	Open	3/8	1 3/8	0.5	1.531	0.06	120	45DK40
TW7	Double Sealed	3/8	1 3/8	0.5	1.53	0.06	120	45DK57



General Purpose Double Row Self-Aligning Ball Bearings

■ Cylindrical bore

These bearings are self-aligning and allow some angular misalignment of the shaft relative to the bearing housing. Their double-row ball design runs with lower friction at higher speeds, causing less heat build-up and noise. They are for use in light-load, high-speed applications and where shaft deflection is likely due to heavy radial loads.

Bearing Industry Number	Bore Dia. (mm)	Outside Dia. (mm)	Outer Ring Width (mm)	Dyn. Radial Load Cap.	Item No.
1201	12	32	10	6.24 kN	36MC80
1202	15	35	11	7.41 kN	36MC81
1204	20	47	14	12.7 kN	36MC86
1205	25	52	15	14.3 kN	36MC90
2200	10	30	14	8.06 kN	36MD60
2202	15	35	14	8.71 kN	36MD62
2205	25	52	18	16.8 kN	36MD67
2208	40	80	23	31.9 kN	36MD73
2210	50	90	23	33.8 kN	36MD78
2212	60	110	28	48.8 kN	36MD81



36MD60