

69 Series Ball Bearing

This is a 69 series ball bearing. It comes with detailed specifications including dimensions, load ratings, speed limits and weight.

Series	Type	Bore	Bore Tolerance	Outer Diameter	Outer Diameter Tolerance	Width	Width Tolerance	Basic Load Ratings		Limiting Speed	Weight
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604	604	4	h6	12	f7	4	h6	0.08	0.015	11000	0.0022
605	605	5	h6	14	f7	5	h6	0.10	0.020	10000	0.0030
606	606	6	h6	16	f7	6	h6	0.12	0.025	9000	0.0040
607	607	7	h6	18	f7	7	h6	0.15	0.030	8000	0.0050
608	608	8	h6	20	f7	8	h6	0.18	0.035	7000	0.0060
609	609	9	h6	22	f7	9	h6	0.20	0.040	6000	0.0070
6000	6000	10	h6	25	f7	10	h6	0.25	0.050	5000	0.0080
6001	6001	11	h6	28	f7	11	h6	0.30	0.060	4500	0.0100
6002	6002	12	h6	30	f7	12	h6	0.35	0.070	4000	0.0110
6003	6003	14	h6	36	f7	14	h6	0.45	0.090	3500	0.0130
6004	6004	16	h6	42	f7	16	h6	0.60	0.120	3000	0.0160
6005	6005	18	h6	48	f7	18	h6	0.80	0.160	2500	0.0200
6006	6006	20	h6	54	f7	20	h6	1.10	0.210	2200	0.0250
6007	6007	22	h6	60	f7	22	h6	1.50	0.280	2000	0.0300
6008	6008	24	h6	68	f7	24	h6	2.00	0.380	1800	0.0350
6009	6009	26	h6	76	f7	26	h6	2.60	0.500	1600	0.0400
6010	6010	28	h6	84	f7	28	h6	3.30	0.650	1400	0.0450
6011	6011	30	h6	92	f7	30	h6	4.20	0.850	1200	0.0500
6012	6012	32	h6	100	f7	32	h6	5.30	1.100	1100	0.0550
6013	6013	35	h6	110	f7	35	h6	6.80	1.400	1000	0.0600
6014	6014	38	h6	120	f7	38	h6	8.50	1.800	900	0.0650
6015	6015	40	h6	130	f7	40	h6	10.50	2.300	800	0.0700
6016	6016	42	h6	140	f7	42	h6	12.80	2.900	750	0.0750
6017	6017	45	h6	150	f7	45	h6	15.50	3.600	700	0.0800

Product Overview

High-Performance Ball Bearings

The 69 series ball bearings are precision-engineered components designed for reliable performance in diverse industrial applications. These bearings offer a wide range of sizes, from compact models for small-scale machinery to robust units capable of supporting heavier loads. With optimized load ratings and speed limits, they ensure smooth operation and durability across various mechanical systems.

Series Compatibility

604, 605, 606, 607, 608, 609, 6000, 6001, 6002, 6003, 6004, 6005, 6006, 6007, 6008, 6009, 6010, 6011, 6012, 6013, 6014, 6015, 6016, 6017, 6018

Technical Specifications

Model Dimensions and Performance

Model	Inner Diameter (mm)	Outer Diameter (mm)	Width (mm)	Dynamic Load (kN)	Static Load (kN)
604	4	12	4	0.97	0.36
605	5	14	5	1.33	0.505
606	6	17	6	2.19	0.865
607	7	19	6	2.24	0.91
608	8	22	7	3.35	1.4
609	9	24	7	3.4	1.45
6000	10	26	8	4.55	1.96
6001	12	28	8	5.1	2.39
6002	15	32	9	5.6	2.84
6003	17	35	10	6.8	3.35
6004	20	42	12	9.4	5.05
6005	25	47	12	10.1	5.85
6006	30	55	13	13.2	8.3
6007	35	62	14	16	10.3
6008	40	68	15	16.3	11.5
6009	45	75	16	21	15.1
6010	50	80	16	21.8	16.6
6011	55	90	18	28.3	21.2
6012	60	95	18	29.5	23.2
6013	65	100	18	31.9	25
6014	70	110	20	39.7	31
6015	75	115	20	41.6	33.5
6016	80	125	22	47.5	40
6017	85	130	22	49.5	43
6018	90	140	24	58	49.5

Performance Metrics

Operating Speed Range

4000 r/min

Minimum Speed Limit

43000 r/min

Maximum Speed Limit