

# 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
								C <sub>r</sub>	C <sub>0</sub>		
604	604	4	h6	12	H7	4	h6	0.15	0.05	10000	0.002
605	605	5	h6	14	H7	5	h6	0.18	0.06	10000	0.003
606	606	6	h6	16	H7	6	h6	0.22	0.08	10000	0.004
607	607	7	h6	18	H7	7	h6	0.26	0.10	10000	0.005
608	608	8	h6	20	H7	8	h6	0.30	0.12	10000	0.006
609	609	9	h6	22	H7	9	h6	0.34	0.14	10000	0.007
6000	6000	10	h6	25	H7	10	h6	0.40	0.16	10000	0.008
6001	6001	11	h6	28	H7	11	h6	0.46	0.18	10000	0.009
6002	6002	12	h6	30	H7	12	h6	0.50	0.20	10000	0.010
6003	6003	13	h6	32	H7	13	h6	0.54	0.22	10000	0.011
6004	6004	14	h6	34	H7	14	h6	0.58	0.24	10000	0.012
6005	6005	15	h6	36	H7	15	h6	0.62	0.26	10000	0.013
6006	6006	16	h6	38	H7	16	h6	0.66	0.28	10000	0.014
6007	6007	17	h6	40	H7	17	h6	0.70	0.30	10000	0.015
6008	6008	18	h6	42	H7	18	h6	0.74	0.32	10000	0.016
6009	6009	19	h6	44	H7	19	h6	0.78	0.34	10000	0.017
6010	6010	20	h6	46	H7	20	h6	0.82	0.36	10000	0.018
6011	6011	21	h6	48	H7	21	h6	0.86	0.38	10000	0.019
6012	6012	22	h6	50	H7	22	h6	0.90	0.40	10000	0.020
6013	6013	23	h6	52	H7	23	h6	0.94	0.42	10000	0.021
6014	6014	24	h6	54	H7	24	h6	0.98	0.44	10000	0.022
6015	6015	25	h6	56	H7	25	h6	1.02	0.46	10000	0.023
6016	6016	26	h6	58	H7	26	h6	1.06	0.48	10000	0.024
6017	6017	27	h6	60	H7	27	h6	1.10	0.50	10000	0.025

## 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