

# Inch Series Ball Bearings

These ball bearings are manufactured to Inch series specifications. They feature detailed specifications including dimensions, load ratings, and speed limits.

Code	Inner Dia (mm)	Outer Dia (mm)	Width (mm)	Dynamic Load (kN)	Static Load (kN)
604	4	12	4	0.97	0.36
605	5	14	5	1.10	0.40
606	6	16	6	1.25	0.45
607	7	18	7	1.40	0.50
608	8	20	8	1.55	0.55
609	9	22	9	1.70	0.60
6000	10	26	8	4.55	1.96
6001	11	28	9	5.00	2.10
6002	12	30	10	5.50	2.25
6003	14	34	12	6.50	2.60
6004	15	36	13	7.00	2.75
6005	17	40	15	8.00	3.10
6006	18	42	16	8.50	3.25
6007	20	46	18	9.50	3.60
6008	22	50	20	10.50	3.95
6009	24	54	22	11.50	4.30
6010	25	56	23	12.00	4.45
6011	28	62	26	13.50	4.95
6012	30	64	28	14.50	5.30
6013	32	68	30	15.50	5.65
6014	34	70	32	16.50	5.95
6015	36	74	34	17.50	6.30
6016	38	76	36	18.50	6.65
6017	40	80	38	19.50	7.00
6018	42	84	40	20.50	7.35

## Overview

### Inch Series Ball Bearings

These high-precision Inch Series ball bearings are engineered for reliable performance in demanding mechanical applications. Designed with a comprehensive range of sizes from 604 to 6018, they offer versatile solutions for various industrial requirements. Each bearing is manufactured to provide optimal load distribution and smooth operation, ensuring durability and efficiency in diverse operating environments.

## Technical Specifications

### Dimensional and Performance Data

Code	Inner Dia (mm)	Outer Dia (mm)	Width (mm)	Dynamic Load (kN)	Static Load (kN)
604	4	12	4	0.97	0.36
6000	10	26	8	4.55	1.96
6005	25	47	12	10.1	5.85
6010	50	80	16	21.8	16.6
6018	90	140	24	58	49.5

### Available Series

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

## Performance Metrics

### Typical Speed Range

**4000 r/min**  
Minimum Limit

**43000 r/min**  
Maximum Limit