



Fafnir® 6200 Series Electric Motor Ball Bearings

High-precision ball bearings volume-produced to the strictest electric-motor quality standards.

Timken® Fafnir® 6200 Series ball bearings offer a world-class combination of high-performance features in a high-volume value package. The high-precision design features superfinished raceways and tightly controlled geometries which produce a quiet operation, approaching machine tool standards.

6200 Series Bearing Benefits

Value package – Outstanding performance at a world-competitive, high-volume price.

High precision – Tightly held internal tolerances provide true tracking and outstanding roundness, approaching ABEC 5 levels.

High speed – Combination of surface finish and tight tolerances permits operating speeds (under proper lubrication conditions) up to 20,000 rpm and beyond.

Micro-smooth finish – Super-finishing achieves raceway smoothness of machine tool quality.

Quiet running – Significant noise and vibration reduction over competitive bearings.

Competitive load capacity – Design satisfies all market load requirements.

Total quality – Automated in-process gauging of all components backed by complete final inspection assures a quality product.

Advanced manufacturing – World-class technology supported by maximum automation maintains high precision at very high volumes.

Design variations – Available configurations include various seal, shield, and lubricant options.

Applications

- Electric motors
- Automotive accessories
 - Air pumps
 - Alternators
 - Distributors
 - Idler pulleys
 - Fan clutches
- Pumps
- Consumer durables
 - Appliances
 - Electric tools
 - Hand tools
 - Air tools
- Business machines

Timken® Fafnir® 6200 Series ball bearings provide a unique value package of high-performance features supported by world-class technology.

- Outstanding value in a high-volume production design
- Delivers electric-motor-quality performance levels
- Sealed, shielded, or open configurations and combinations available

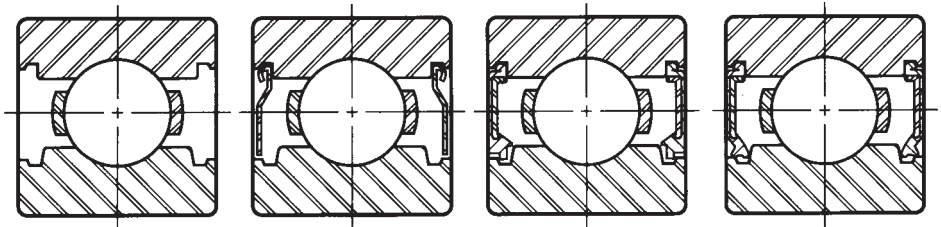
Bearing Design

All Fafnir 6200 Series ball bearings offer a world-class package of features that provides an outstanding level of performance for electric-motor-type applications. Precise internal geometry and tight tolerances permit true-running operation with a high-speed capability beyond 20,000 rpm under proper lubrication conditions. The raceway micro-finish reduces vibration and noise significantly.

This Conrad-type, deep-groove bearing design incorporates a complement of precision balls and a stamped retainer. A variety of seal and shield configurations are available, as well as standard, heavy, and light-drag seals. All standard greases are available.



Extensive laboratory testing confirms the Fafnir 6200 Series ball bearing's outstanding performance characteristics.



Bearing Number	Bore				Outside Diameter				Width				Fillet Radius ⁽¹⁾		Wt.		Static Load Rating		Extended Dynamic Load Rating	
	tolerance +0.0000" +0.000 mm to minus				tolerance +0.0000" +0.000 mm to minus				tolerance +0.0000" +0.000 mm to minus				lbs.	kg	lbs.	kg	lbs.	N	lbs.	N
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	N	lbs.	N
6200	0.3937	10	0.0003	0.008	1.1811	30	0.00035	0.009	0.3543	9	0.0047	0.12	0.024	0.6	0.06	0.027	600	2650	1500	6550
6201	0.4724	12	0.0003	0.008	1.2598	32	0.00045	0.011	0.3937	10	0.0047	0.12	0.024	0.6	0.08	0.036	680	3000	1700	7500
6202	0.5906	15	0.0003	0.008	1.3780	35	0.00045	0.011	0.4331	11	0.0047	0.12	0.024	0.6	0.09	0.041	780	3450	1930	8650
6203	0.6693	17	0.0003	0.008	1.5748	40	0.00045	0.011	0.4724	12	0.0047	0.12	0.024	0.6	0.14	0.064	1000	4400	2360	10600

For your nearest
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