



## TIMKEN® DEEP GROOVE BALL BEARINGS

### ALL-AROUND TIMKEN RELIABILITY

Our deep groove ball bearings deliver reliable performance in a wide range of applications and conditions. With super-finished raceways and controlled geometries, our premium design helps ensure consistent quality.

### EXTENDED PRODUCT OFFERING

Our portfolio includes standard, thin section, narrow, wide and miniature and extra-small deep groove ball bearings that span 3 mm to 850 mm bore sizes. The extended product line includes a complete offering of open, shields, seals and snap ring combinations.

### FULL RANGE OF METRIC BEARINGS

#### EASY INTERCHANGE

Designed as metric bearings, our deep groove ball bearings follow ISO standards and are dimensionally interchangeable with competitor metric products.

#### BRASS CAGE AVAILABILITY

Deep groove ball bearings with brass cages (available in select sizes) can deliver extra strength and durability in the most unrelenting conditions:

- Extreme shock loads
- High vibrations
- High forces due to acceleration

### Quiet Running for Electric Motor Quality

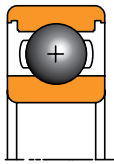
Deep groove ball bearings are frequently used in electric motor applications to minimize vibration and noise. To meet our long-standing electric motor quality guidelines for deep groove ball bearings we designed in:

- Super finishing on raceways to reduce friction
- Preferred clearance designation (C3)
- Premium grease for high performance, low torque and less noise

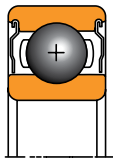
Timken deep groove ball bearings have lower vibration levels than competitors during independent electric motor application testing.



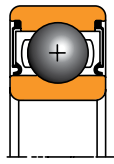
# PRODUCT RANGE



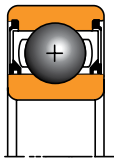
OPEN



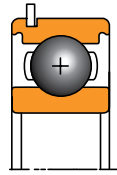
SHIELDS  
One = Z  
Two = ZZ



CONTACT SEALS  
One = RS  
Two = ZRS



NON-CONTACT SEALS  
One = RZ  
Two = 2RZ



SNAP RING  
Snap Ring = NR  
Groove Only = N

Construction	Series	Bore Range mm	O.D. Range mm
<b>Standard</b>	6000	10-400	26-600
	6200	10-260	30-480
	6300	10-220	35-460
	6400	25-320	80-480
<b>Thin Section</b>	61800	10-850	19-1030
	61900	10-90	22-125
<b>Narrow</b>	16000	15-160	32-240
	16100	10-12	28-30
<b>Wide</b>	62000	10-70	30-125
	62300	10-55	30-120
	63000	10-40	26-68
	600	3-9	9-24
<b>Miniature and Extra-Small</b>	618/X	3-9	7-17
	619X	3-9	8-20
	620	3-9	10-26
	630	3-9	13-30

# NOMENCLATURE

62 05 M - ZZ - C3 - Vxxxx

### Series Code

- 6 - extra small
- 618 - extra-ultra-light
- 619 - ultra-light
- 161 - extra-extra-light
- 60 - extra-light
- 62 - light
- 63 - medium
- 64 - heavy
- 160 - extra-light thin-type
- 620 - light wide-type
- 623 - extra-medium wide-type
- 630 - medium wide-type

### Common Suffixes

- M - brass ball guided
- MA - brass outer ring guided
- MB - brass inner ring guided
- TN1 - polymer cage
- H - stainless steel bearing

### Internal Clearance

- C2 - tight
- C0/blank - normal
- C3 - loose
- C4 - extra loose
- C5 - extra-extra loose

### Special Code

- Vxxxx - special features
- VGxxx - special grease
- VSLxxx - special solid lube
- FVxxxx - food-grade grease
- FVSLxxx - food-grade solid lube

### Closures & Features

- Z - one shield
- ZZ - two shields
- RS - one contact seal
- 2RS - two contact seals
- RZ - one non-contact seal
- 2RZ - two non-contact seals
- NR - snap ring
- N - snap ring groove

### Bore Code

- 00 - 10 mm
- 01 - 12 mm
- 02 - 15 mm
- 03 - 17 mm
- 04 and up: bore (mm) = code x 5



## CHOOSE TIMKEN

See why Timken is your expert in bearings and industrial motion solutions by visiting our catalogs at [www.timkencatalogs.squawqcr.com](http://www.timkencatalogs.squawqcr.com) or scanning the QR code at left.

# TIMKEN

The Timken team applies their know-how to improve the reliability and performance of machinery in diverse markets worldwide. The company designs, makes and markets bearings, gear drives, automated lubrication systems, belts, brakes, clutches, chain, couplings, linear motion products and related industrial motion rebuild and repair services.

**Stronger. By Design.**

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