



The Timken Company

4500 Mt Pleasant St. NW

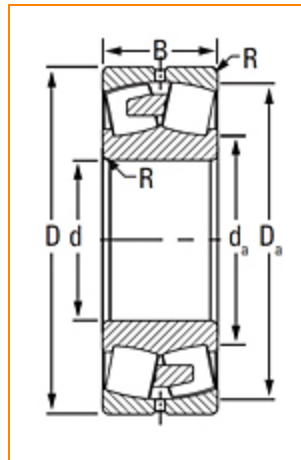
N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 239/750YMBW509C08, Spherical Roller Bearings - Brass Cage

Spherical bearings are designed to manage high radial loads even when misalignment, poor lubrication, contamination, extreme speeds or critical application stresses are present.



[Specifications](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Basic Load Ratings](#) | [Factors](#)

Specifications

| | |
|----------------|-------------------------|
| Design Unit | METRIC |
| Bearing Weight | 405.700 Kg 892.60 lb |
| Cage Type | YMB |
| UPC Code | 087796205024 |
| Cage Material | Brass |

Dimensions

| | |
|--------------------|---------------------------|
| d - Bore | 750.000 mm 29.5280 in |
| D - Outer Diameter | 1000.000 mm 39.3700 in |

39.3700 in

B' - Inner Ring Width185 mm
7.284 in**B - Outer Ring Width**185.000 mm
7.2840 in**Abutment and Fillet Dimensions****R - Inner Ring "To Clear" Radius¹**5.000 mm
0.200 in**r - Outer Ring "To Clear" Radius²**5.000 mm
0.200 in**da - Inner Ring Backing Diameter**813.000 mm
32.000 in**Da - Outer Ring Backing
Diameter**946.000 mm
37.300 in**Basic Load Ratings****C0 - Static Radial Rating**13400000 N
3000000 lbf**C1(2) - Dynamic Radial Rating
(Two-Rows)**6010000 N
1350000 lbf**Factors****e - ISO Factor³**

0.16

Y0 - ISO Factor⁴

4.14

Y1 - ISO Factor⁵

4.23

Y2 - ISO Factor⁶

6.3

Reference Thermal Speed Rating

210

| | |
|---|--------|
| (Grease) | 310 |
| Reference Thermal Speed Rating (Oil) ⁷ | 350 |
| Cg - Geometry Factor ⁸ | 0.1329 |

¹ Maximum housing fillet radius that bearing corners will clear.

² Maximum shaft fillet radius that bearing corners will clear.

³ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

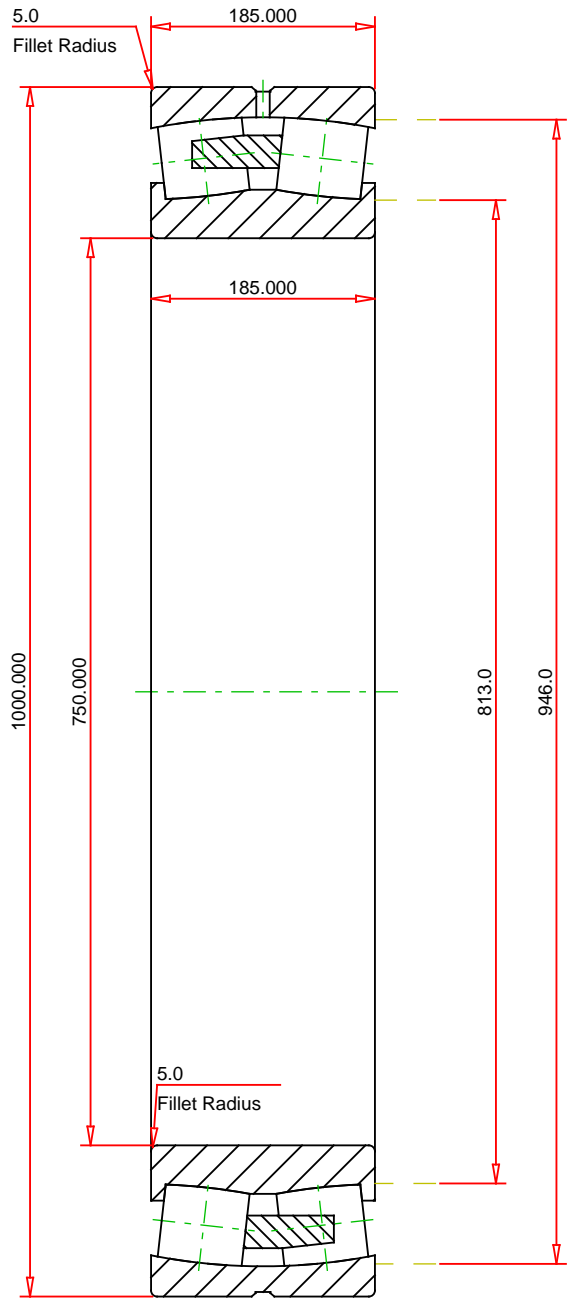
⁴ These factors apply for both inch and metric calculations. See engineering

⁵ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁶ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁷ See thermal speed ratings in the engineering section.

⁸ Geometry constant for Lubrication Life Adjustment Factor a3l.



METRIC UNITS

| | |
|---------------------------|----------|
| Number of Rollers Per Row | 38 |
| ISO Factor e | 0.16 |
| ISO Factor Y0 | 4.14 |
| ISO Factor Y1 | 4.23 |
| ISO Factor Y2 | 6.30 |
| Bearing Weight | 405.7 kg |
| Cage Type | YMB |
| Cage Material | Brass |



THE TIMKEN COMPANY

NORTH CANTON, OHIO USA

239/750YMBW509C08
SRB ASSEMBLY

| | | |
|----------------------------------|----------|---|
| Dynamic Radial Rating (Two Rows) | 6010000 | N |
| Static Radial Rating | 13400000 | N |

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

FOR DISCUSSION ONLY