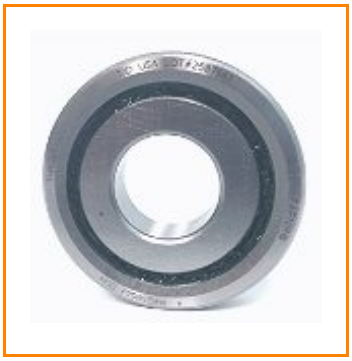
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Timken Part Number MM100BS150, Fafnir® Single Row Ball Screw Support Bearings (MM-BS)

Timken® angular contact ball bearings are designed for combination radial and axial loading. Single-row bearings have high thrust capacity in one direction. Some single-row bearings are specifically designed for duplex mounting in sets for maximum performance.



Dimensions | Basic Load Ratings | Factors | Specifications | Abutment and Fillet Dimensions

Dimensions

d - Bore	100.000 mm 39.3700 in
D - Outer Diameter	150.000 mm 59.055 in
Bearing Width	22.500 mm 0.8858 in
Contact Angle	60 º
do - Ball Diameter	12.70000 mm 0.50000 in

Basic Load Ratings

C0 - Static Radial Rating	200500 N 45100 lbf
Ce - Dynamic Radial Rating[1]	80900 N 18200 lbf

Factors

Limiting Speed (Grease)	1300 rpm
Limiting Speed (Oil)	2600 rpm

Specifications

Ball Type	Steel
Cage Type	CR - Phenolic Outer Land Riding Cage
Bearing Weight	1.28 Kg 2.82 lb
Design Units	METRIC

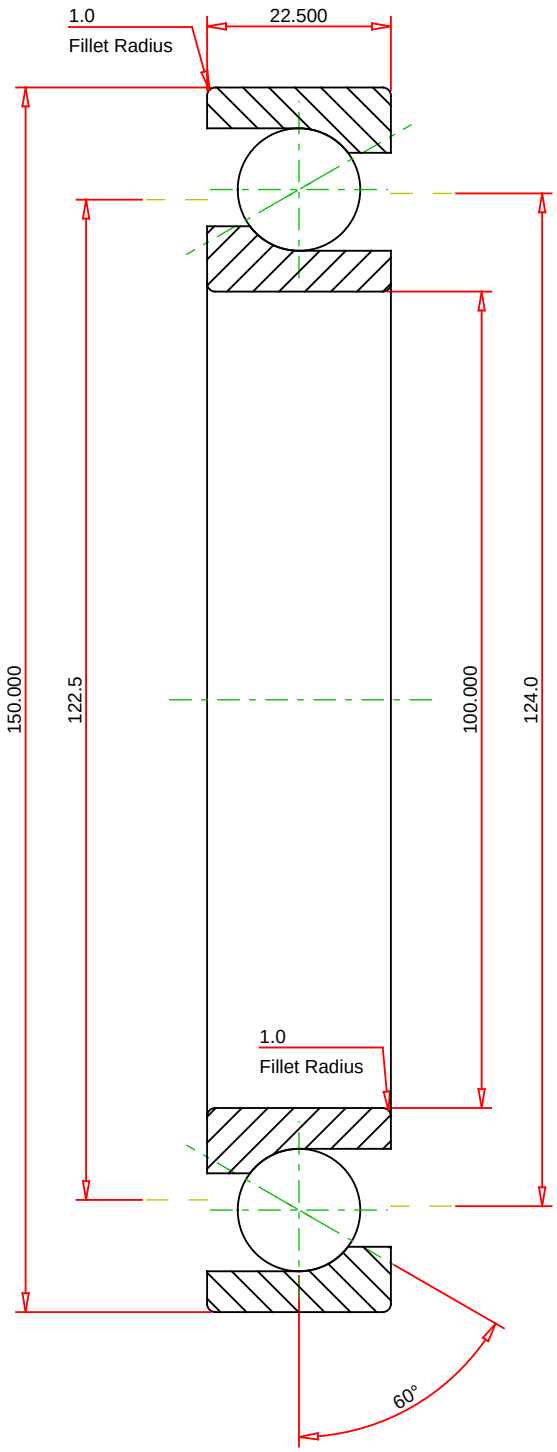
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.000 mm 0.039 in
r - Outer Ring "To Clear" Radius[3]	1.000 mm 0.039 in
da - Inner Ring Backing Diameter	122.517 mm 4.8235 in
Da - Outer Ring Backing Diameter	124.049 mm 4.8838 in

[1] Based on 10^6 revolutions of calculated fatigue life.

[2] Maximum housing fillet radius that bearing corners will clear.

[3] Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row	26	
Bearing Weight	1.280	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM100BS150

Fafnir® Single Row Ball Screw Support Bearings
(MM-BS)

Dynamic Radial Rating	80900	N
Static Radial Rating	200500	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