


The Timken Company

4500 Mt Pleasant St. NW

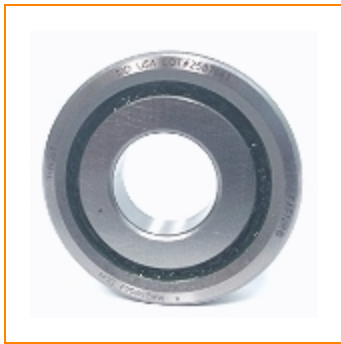
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Part Number MM40BS90-20 QUM, Fafnir® Single Row Ball Screw Support Bearings (MM-BS)

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.



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Specifications

Manufacturing Part Number	MM40BS90-20QUM
Rows per Set	Quadruplex
Design Units	Metric
d - Bore	40 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage

Dimensions



D - Outer Diameter	90 mm 3.5433 in
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Bearing Width	20 mm 0.7874 in
Total Width	80 mm 3.1496 in
Contact Angle	60°

Basic Load Ratings

C0 - Static Radial Rating (per row)	60900 N 13700 lbf
Ce - Dynamic Radial Rating (per row)	41400 N 9310 lbf
C1 ISO - Dynamic Radial Rating (per row)	37300 N 8390 lbf

Factors

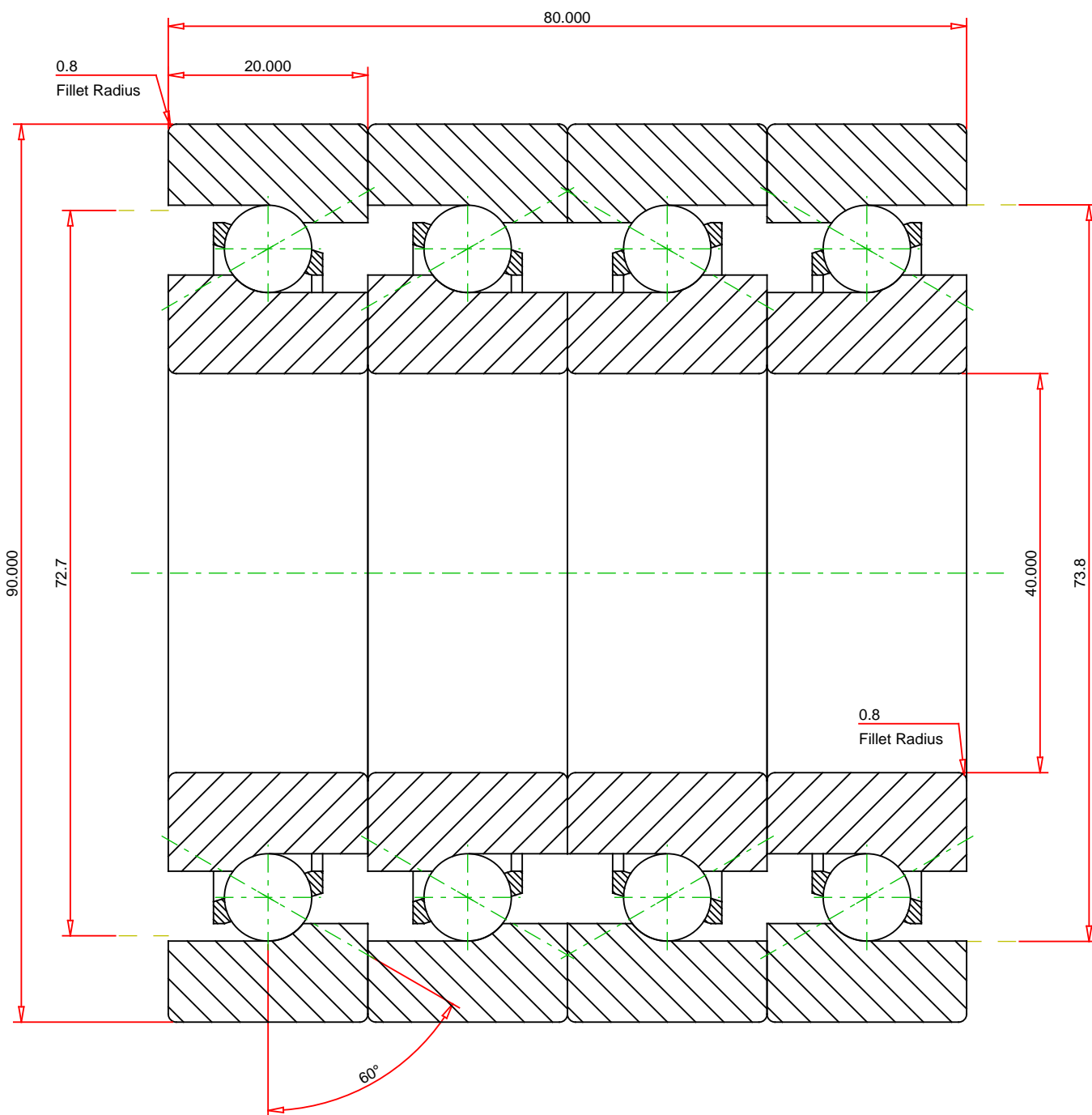
Limiting Speed (Grease) (per row)	2200 rpm
Limiting Speed (Oil)	4400 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius¹	0.8 mm 0.031 in
r - Outer Ring "To Clear" Radius²	0.800 mm 0.031 in
da - Inner Ring Backing Diameter	72.695 mm 2.862 in
Da - Outer Ring Backing Diameter	73.823 mm 2.9064 in

¹ Maximum housing fillet radius that bearing corners will clear.

² Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row 24
 Bearing Weight 2.640 kg

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

MM40BS90-20 QUM
 Fafnir® Single Row Ball Screw Support Bearings
 (MM-BS)

Dynamic Radial Rating 41400 N
 Static Radial Rating 60900 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