


The Timken Company

4500 Mt Pleasant St. NW

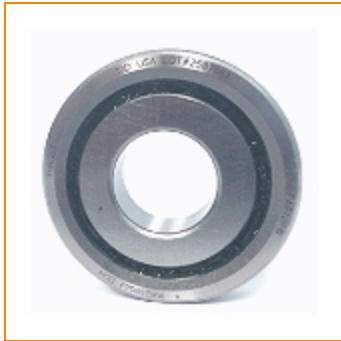
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Part Number MM50BS90 QUM, Fafnir® Single Row Ball Screw Support Bearings (MM-BS)

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.




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

Specifications

Manufacturing Part Number	MM50BS90QUM
Rows per Set	Quadruplex
Design Units	Metric
d - Bore	50 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage

Dimensions

D - Outer Diameter	90 mm 3.5433 in
 Bearing Width	15 mm 0.5906 in

Total Width	60 mm 2.3624 in
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Contact Angle	60°
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Basic Load Ratings

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

Limiting Speed (Grease) (per row)	2200 rpm
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Limiting Speed (Oil)	4400 rpm
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Abutment and Fillet Dimensions

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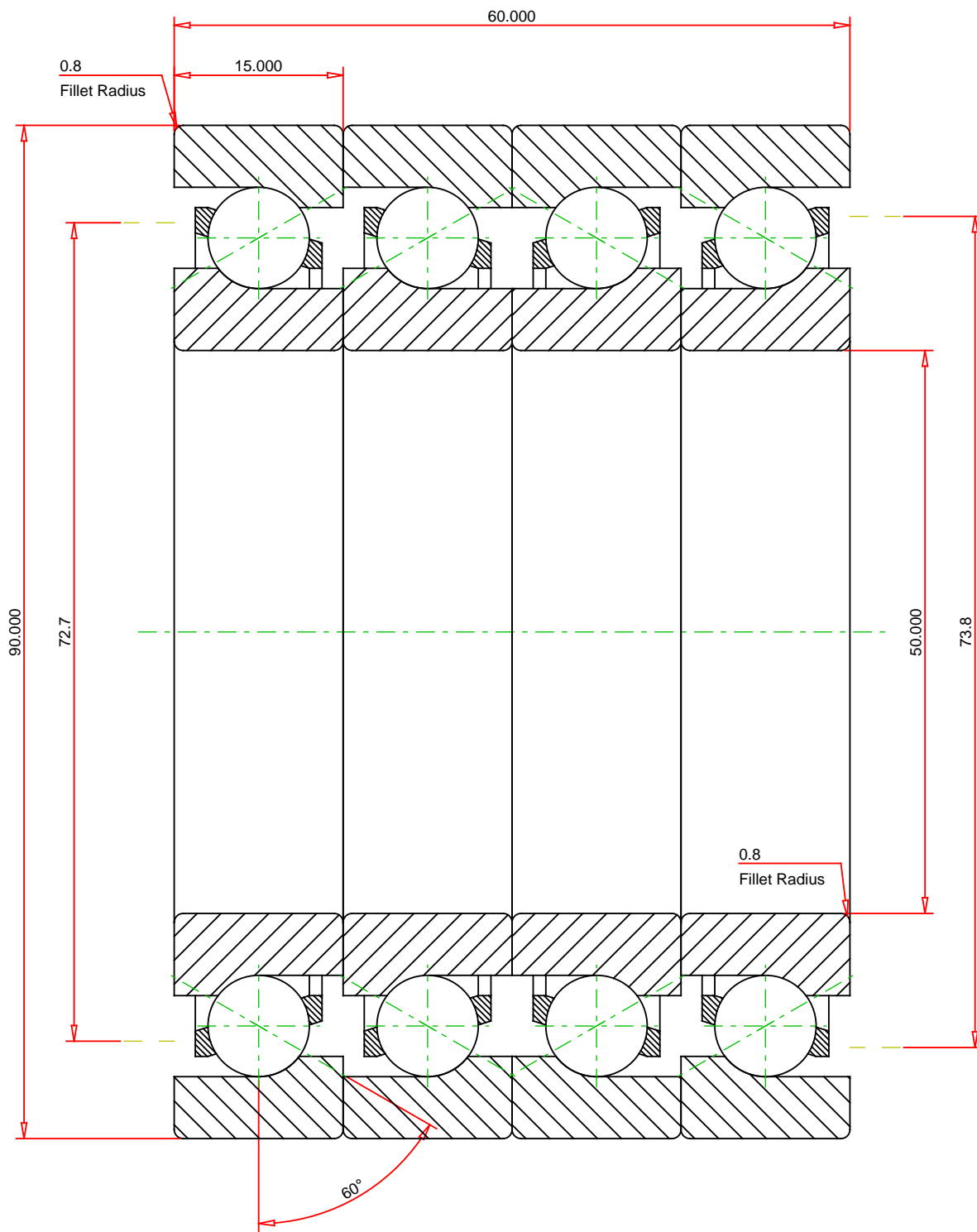
r - Outer Ring "To Clear" Radius²	0.800 mm 0.031 in
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da - Inner Ring Backing Diameter	72.695 mm 2.862 in
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Da - Outer Ring Backing Diameter	73.823 mm 2.9064 in
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¹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

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM50BS90 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