


The Timken Company

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Part Number MM40BS90 DUM, 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	MM40BS90DUM
Rows per Set	Duplex
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
Bearing Width	15 mm 0.5906 in



Total Width	30 mm 1.1812 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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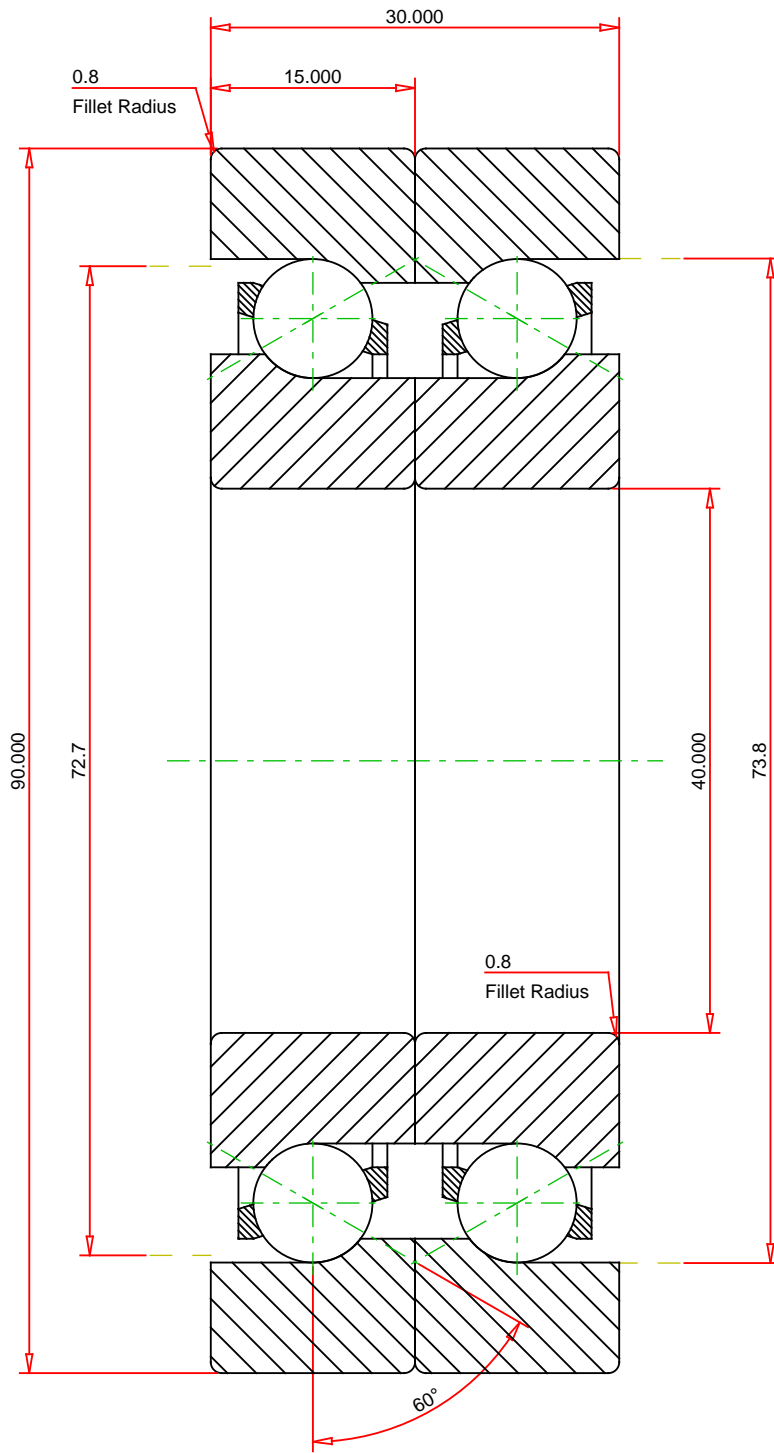
r - Outer Ring "To Clear" Radius²	0.800 mm 0.031 in
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da - Inner Ring Backing Diameter	72.695 mm 2.862 in
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Da - Outer Ring Backing Diameter	73.823 mm 2.9064 in
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¹ 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 0.980 kg

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

MM40BS90 DUM
 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