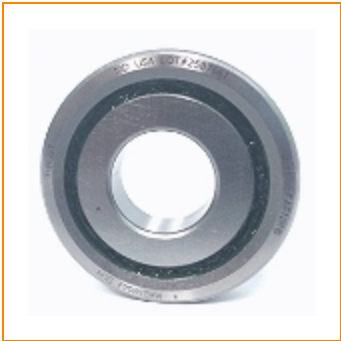




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Part Number MM45BS100 QUH, Fafnir® Single Row Ball Screw Support Bearings (MM-BS)

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	MM45BS100QUH
Rows per Set	Quadruplex
Design Units	Metric
d - Bore	45 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage

Dimensions	
D - Outer Diameter	100 mm 3.937 in
Bearing Width	22.5 mm 0.8858 in



Total Width	90 mm 3.5432 in
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Contact Angle	60 °
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Basic Load Ratings

C0 - Static Radial Rating (per row)	93400 N 21000 lbf
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Ce - Dynamic Radial Rating (per row)	71200 N 16010 lbf
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C1 ISO - Dynamic Radial Rating (per row)	64200 N 14440 lbf
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Factors

Limiting Speed (Grease) (per row)	2000 rpm
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Limiting Speed (Oil)	4000 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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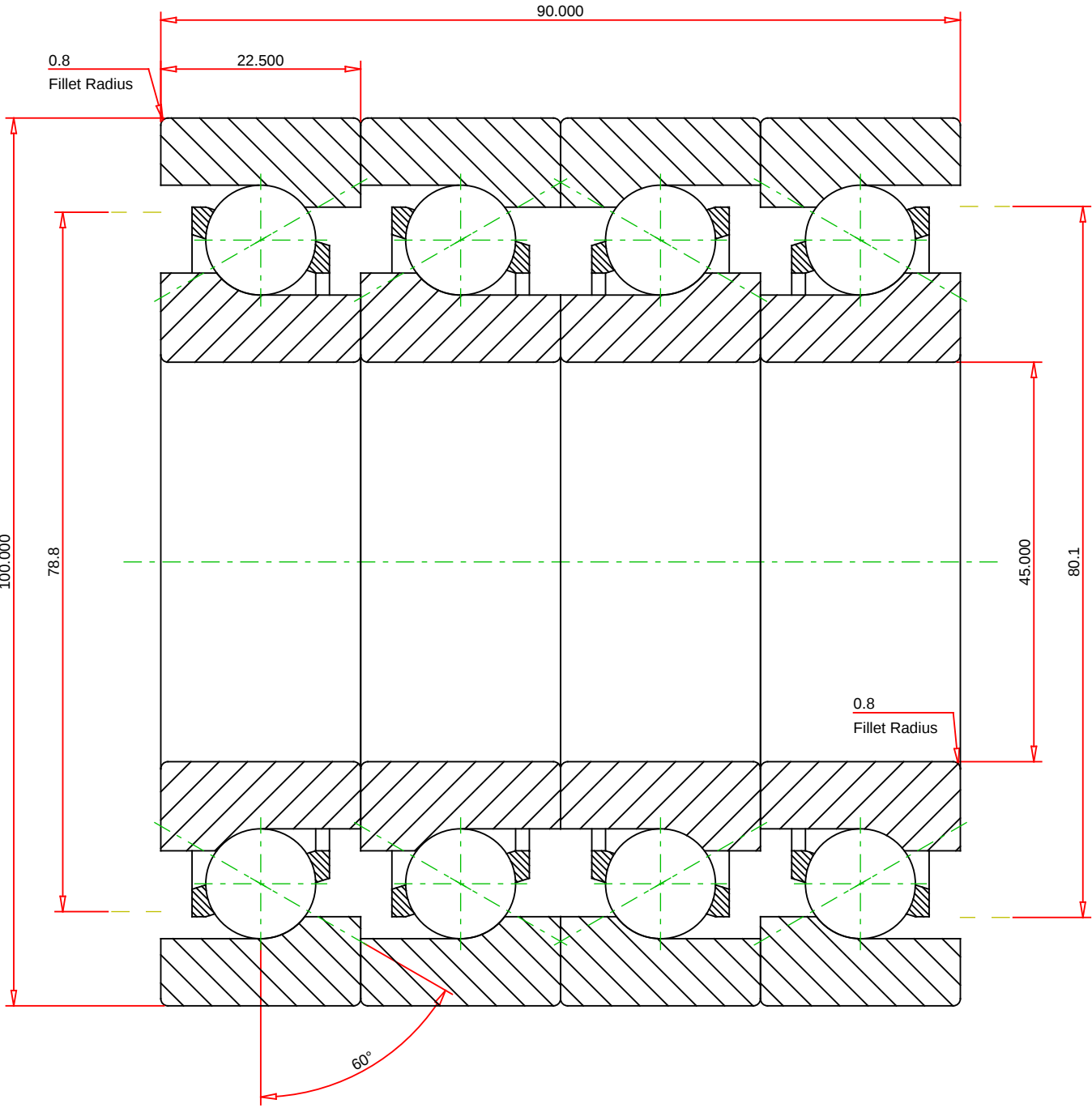
r - Outer Ring "To Clear" Radius²	0.800 mm 0.031 in
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da - Inner Ring Backing Diameter	78.776 mm 3.1014 in
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Da - Outer Ring Backing Diameter	80.089 mm 3.1531 in
---	------------------------

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 18
Bearing Weight 3.040 kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

MM45BS100 QUH
Fafnir® Single Row Ball Screw Support Bearings
(MM-BS)

Dynamic Radial Rating 71200 N
Static Radial Rating 93400 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