



**The Timken Company**

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Part Number 2MM9110WI, Fafnir® Spindle Angular Contact Ball Bearings (9300WI, 9100WI, 200WI, 300WI)

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

### Note

CAD Model Shown is for a single bearing

Product is sold set of:

- 1 (SU = Single)
- 2 (DU = Duplex)
- 3 (TU = Triplex)
- 4 (QU = Quadruplex)

2MM9110WI  
 2MM9110WI DUH  
 2MM9110WI DUL  
 2MM9110WI DULFS934  
 2MM9110WI DUM  
 2MM9110WI QUL  
 2MM9110WI QUM  
 2MM9110WI SUL  
 2MM9110WI TUH  
 2MM9110WI TUL

<b>Full Timken Part Number</b>	2MM9110WI TUM 2MM9110WICR 2MM9110WICRDUH 2MM9110WICRDUL 2MM9110WICRDULFS934 2MM9110WICRDUM 2MM9110WICRDUMFS118 2MM9110WICRDUX 2MM9110WICRQUH 2MM9110WICRQUL 2MM9110WICRQUM 2MM9110WICRQUX 2MM9110WICRSUH 2MM9110WICRSUL 2MM9110WICRSUM 2MM9110WICRSUX 2MM9110WICRTUH 2MM9110WICRTUL 2MM9110WICRTULFS637 2MM9110WICRTUM 2MM9110WICRTUX 2MM9110WITULFS637
<b>Disclaimer</b>	Product preload will have a suffix of: H = Heavy, M = Medium, L = Light
<b>Ball Type</b>	STEEL
<b>Cage Type</b>	CR - Phenolic Outer Land Riding Cage
<b>Bearing Weight</b>	0.258 Kg 0.57 lb
<b>Design Units</b>	METRIC
<b>Precision Class</b>	ISO P4S (ABEC 7/9)
<b>Manufacturing Part Number</b>	2MM9110WICR 2MM9110WICRDUH 2MM9110WICRDUL 2MM9110WICRDULFS934 2MM9110WICRDUM 2MM9110WICRQUL 2MM9110WICRQUM 2MM9110WICRSUL 2MM9110WICRTUH 2MM9110WICRTUL 2MM9110WICRTUM

## Dimensions

<b>d - Bore</b>	50.00 mm 1.9685 in
<b>D - Outer Diameter</b>	80.00 mm 3.1496 in
<b>Bearing Width</b>	16.00 mm 0.6299 in
<b>Contact Angle</b>	15 °
<b>do - Ball Diameter</b>	8.73125 mm 11/32 in

## Basic Load Ratings

<b>C0 - Static Radial Rating</b>	20800 N 4670 lbf
<b>Ce - Dynamic Radial Rating<sup>1</sup></b>	27900 N 6270 lbf

## Factors

<b>Limiting Speed (Grease)</b>	16300 rpm
<b>Limiting Speed (Oil)</b>	32600 rpm

## Abutment and Fillet Dimensions

<b>R - Inner Ring "To Clear" Radius<sup>2</sup></b>	1.00 mm 0.039 in
<b>r - Outer Ring "To Clear" Radius<sup>3</sup></b>	1.00 mm 0.039 in
	≤ 1.00 mm

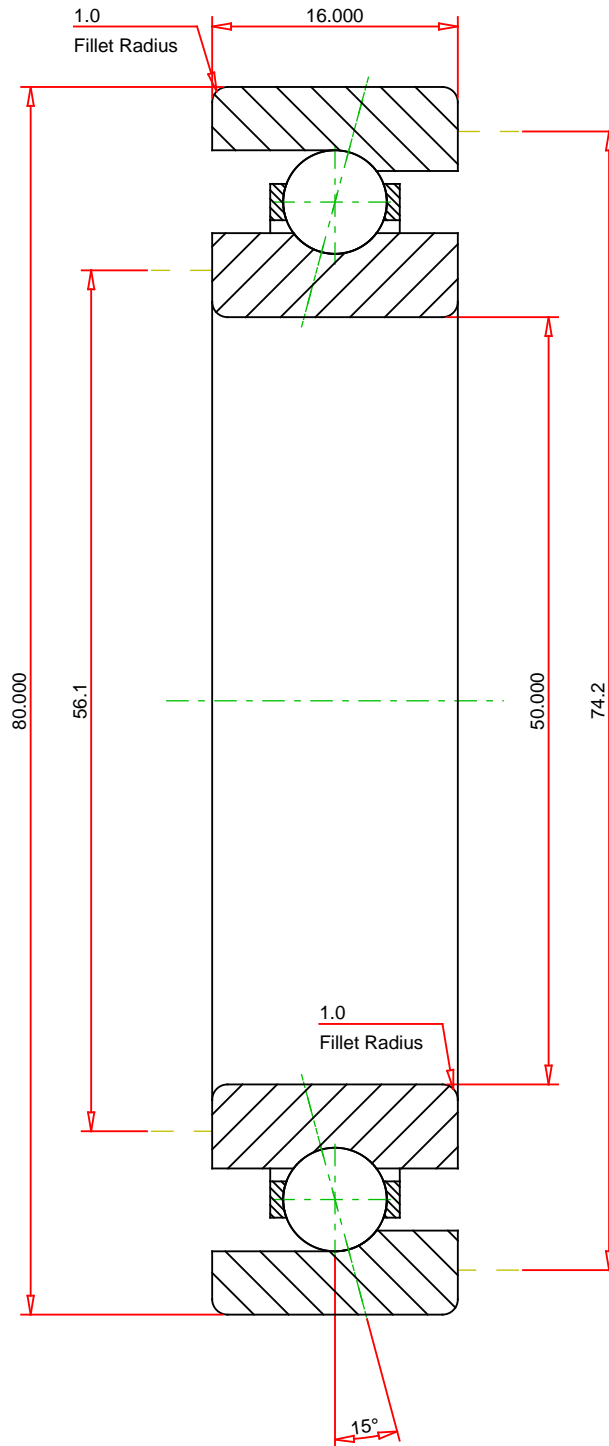
<b>da - Inner Ring Backing Diameter</b>	58.100 mm 2.210 in
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<b>Da - Outer Ring Backing Diameter</b>	74.200 mm 2.920 in
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<sup>1</sup> Based on  $10^6$  revolutions of calculated fatigue life.

<sup>2</sup> Maximum housing fillet radius that bearing corners will clear.

<sup>3</sup> Maximum shaft fillet radius that bearing corners will clear.



## METRIC UNITS

Number of Balls Per Row  
Bearing Weight

18  
0.258 kg

**TIMKEN®**

**THE TIMKEN COMPANY**  
NORTH CANTON, OHIO USA

**2MM9110WI**

Fafnir® Spindle Angular Contact Ball Bearings  
(9300WI, 9100WI, 200WI, 300WI)

Dynamic Radial Rating  
Static Radial Rating

27900 N  
20800 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**