



The Timken Company

4500 Mt Pleasant St. NW

N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 2MM210WI, 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)

2MM210WI
 2MM210WI DUH
 2MM210WI DUL
 2MM210WI DUL FS637
 2MM210WI DULFS934
 2MM210WI DUM
 2MM210WI DUMFS637
 2MM210WI QUL
 2MM210WI TUL
 2MM210WI TUM

Full Timken Part Number	2MM210WI9 A1389
	2MM210WI9CRA1389
	2MM210WICR
	2MM210WICRDUH
	2MM210WICRDUL
	2MM210WICRDULFS637
	2MM210WICRDULFS934
	2MM210WICRDUM
	2MM210WICRDUMFS637
	2MM210WICRDUX
	2MM210WICRQUH
	2MM210WICRQUL
	2MM210WICRQUM
	2MM210WICRQUX
	2MM210WICRSUH
	2MM210WICRSUL
	2MM210WICRSUM
	2MM210WICRSUX
	2MM210WICRTUH
	2MM210WICRTUL
	2MM210WICRTUM
	2MM210WICRTUX
Disclaimer	Product preload will have a suffix of: H = Heavy, M = Medium, L = Light
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage
Bearing Weight	0.457 Kg 1.010 lb
Design Units	METRIC
Precision Class	ISO P4S (ABEC 7/9)
Manufacturing Part Number	2MM210WI9CRA1389
	2MM210WICR
	2MM210WICRDUH
	2MM210WICRDUL
	2MM210WICRDULFS637
	2MM210WICRDULFS934
	2MM210WICRDUM
	2MM210WICRDUMFS637
	2MM210WICRQUL
	2MM210WICRTUL
	2MM210WICRTUM

Dimensions

d - Bore	50.00 mm 1.9685 in
D - Outer Diameter	90.00 mm 3.5433 in
Bearing Width	20.00 mm 0.7874 in
Contact Angle	15 °
do - Ball Diameter	12.700 mm 1/2 in

Basic Load Ratings

C0 - Static Radial Rating	31700 N 7130 lbf
Ce - Dynamic Radial Rating¹	47400 N 10700 lbf

Factors

Limiting Speed (Grease)	16000 rpm
Limiting Speed (Oil)	32000 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1.00 mm 0.039 in
r - Outer Ring "To Clear" Radius³	1.00 mm 0.039 in
	57.400 mm

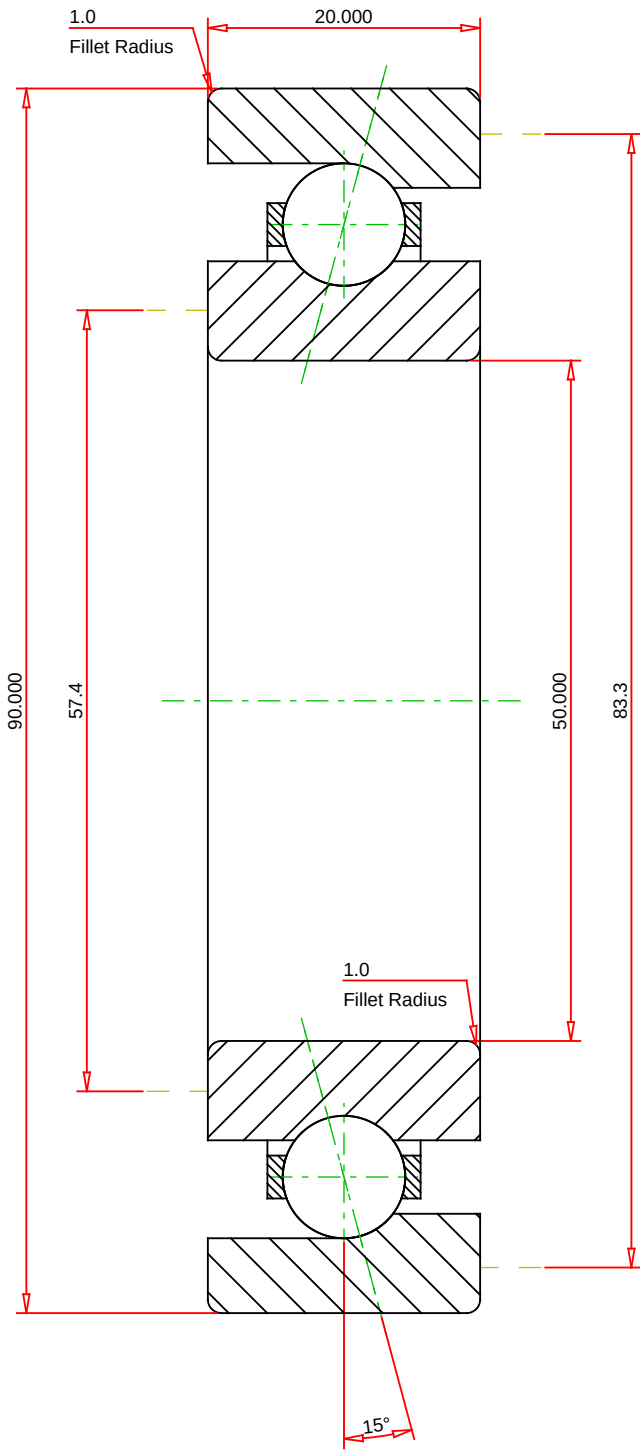
da - Inner Ring Backing Diameter	57.400 mm 2.260 in
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Da - Outer Ring Backing Diameter	83.300 mm 3.280 in
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¹ Based on 10^6 revolutions of calculated fatigue life.

² Maximum housing fillet radius that bearing corners will clear.

³ Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row Bearing Weight		14 0.457 kg	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	2MM210WI Fafnir® Spindle Angular Contact Ball Bearings (9300WI, 9100WI, 200WI, 300WI)	
				Dynamic Radial Rating	47400 N
				Static Radial Rating	31700 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	