



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 208WDN, Fafnir® Maximum Capacity Ball Bearings (200W, 300W)

Radial ball bearings consist of an inner and outer ring with a cage containing a complement of precision balls. The standard Conrad-type bearing has a deep-groove construction capable of handling radial and axial loads from either direction in versatile designs that permit relatively high-speed operation.

In addition to standard single-row deep groove bearings, Timken offers special designs, including a maximum capacity series and an extra large (XLS) radial series bearing.

Size range: 3 mm



[more](#)

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

Specifications	
Design Units	Metric
d - Bore	40 mm
Ball Type	STEEL

Dimensions	



D - Outer Diameter 80 mm
3.1496 in

Bearing Width 18 mm
0.7087 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹ 46200 N
10400 lbf

C0 - Static Radial Rating 28700 N
6440 lbf

Factors

Limiting Speed (Grease) 4167 rpm

Limiting Speed (Oil) 5000 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius² 1.1 mm
0.043 in

r - Outer Ring "To Clear" Radius³ 1.1 mm
0.043 in

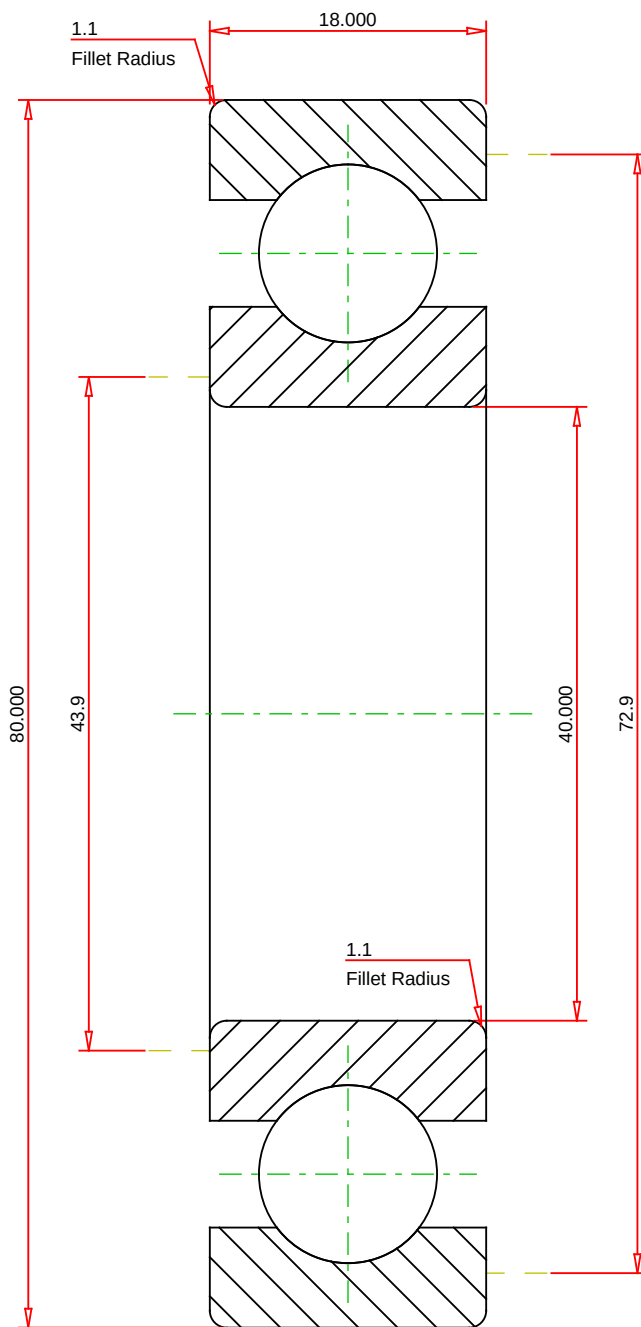
da - Inner Ring Backing Diameter 43.90 mm
1.7283 in

Da - Outer Ring Backing Diameter 72.90 mm
2.8700 in

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	13 0.413 kg	TIMKEN®		208WDN Fafnir® Maximum Capacity Ball Bearings (200W, 300W)	
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA		Dynamic Radial Rating	46200 N
				Static Radial Rating	28700 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