



The Timken Company
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Part Number 218WDN, 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



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Specifications	
Design Units	Metric
d - Bore	90 mm
Ball Type	STEEL

Dimensions	



D - Outer Diameter 160 mm
6.2992 in

Bearing Width 30 mm
1.1811 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹ 145600 N
32700 lbf

C0 - Static Radial Rating 114300 N
25700 lbf

Factors

Limiting Speed (Grease) 2000 rpm

Limiting Speed (Oil) 2400 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius² 2 mm
0.079 in

r - Outer Ring "To Clear" Radius³ 2 mm
0.079 in

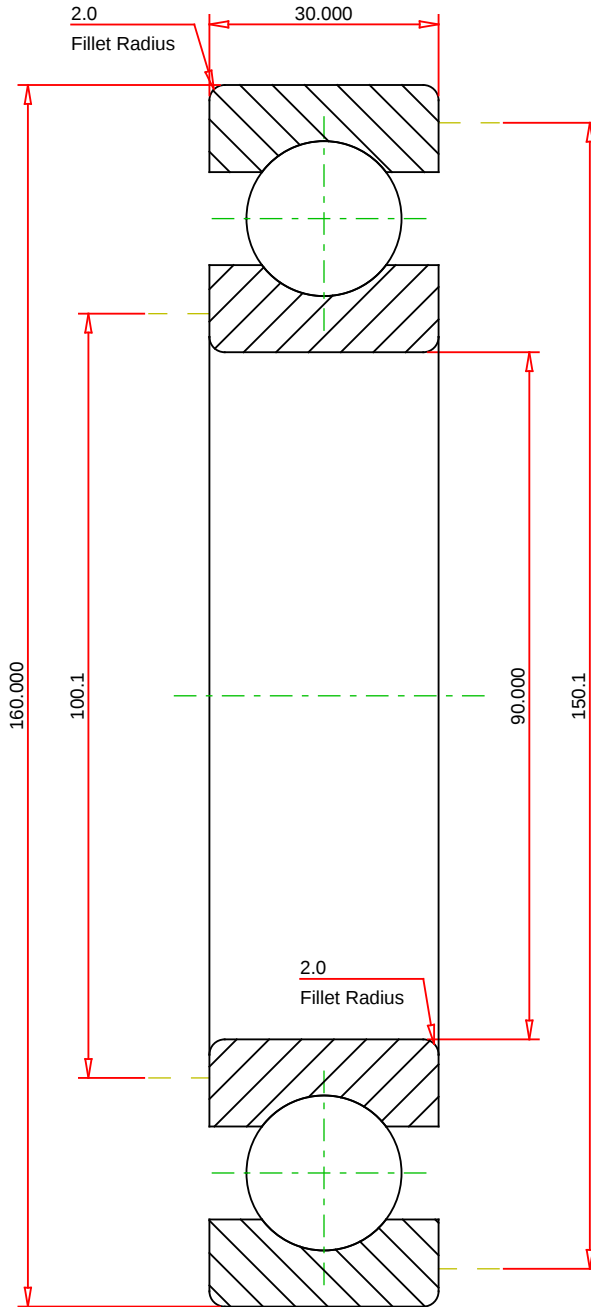
da - Inner Ring Backing Diameter 100.10 mm
3.9409 in

Da - Outer Ring Backing Diameter 150.10 mm
5.9094 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	16 2.490 kg	TIMKEN®		218WDN Fafnir® Maximum Capacity Ball Bearings (200W, 300W)	
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA		Dynamic Radial Rating	145600 N
				Static Radial Rating	114300 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.

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