


**The Timken Company**

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## Part Number 120W 2, 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

<b>Design Units</b>	Metric
<b>d - Bore</b>	100 mm
<b>Ball Type</b>	STEEL
<b>Manufacturing Part Number</b>	120W2

### Dimensions



**D - Outer Diameter** 160 mm  
6.2992 in

**Bearing Width** 28 mm  
1.1024 in

### Basic Load Ratings

**Ce - Dynamic Radial Rating<sup>1</sup>** 106757 N  
24000 lbf

**C0 - Static Radial Rating** 94747 N  
21300 lbf

### Abutment and Fillet Dimensions

**R - Inner Ring "To Clear" Radius<sup>2</sup>** 2.01 mm  
0.079 in

**r - Outer Ring "To Clear" Radius<sup>3</sup>** 2.01 mm  
0.079 in

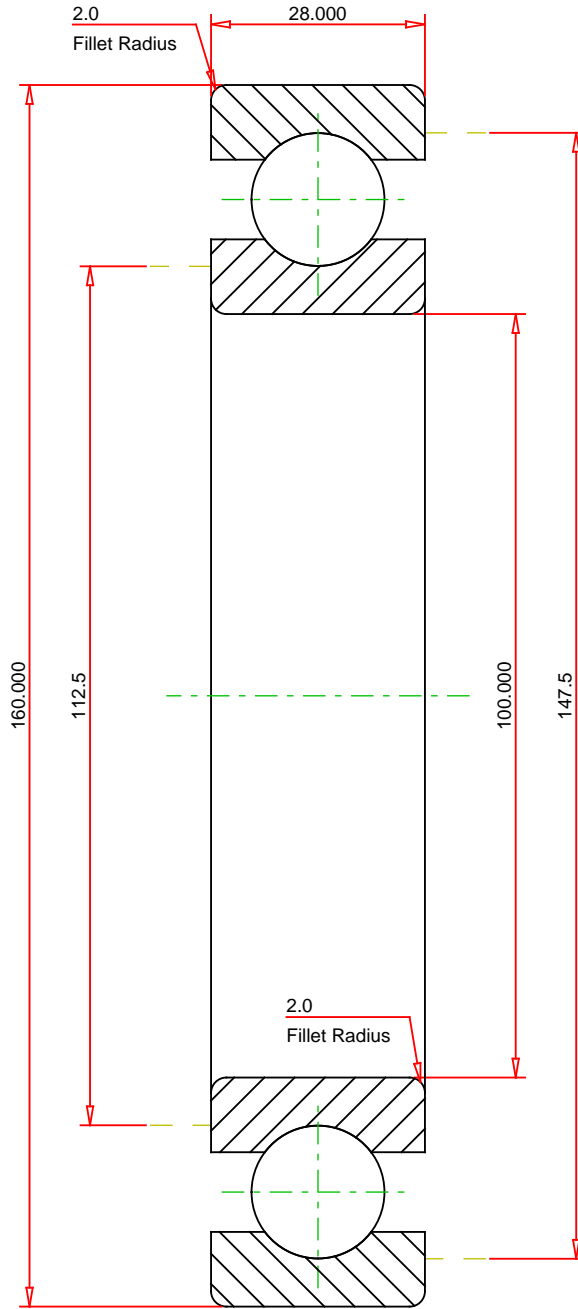
**da - Inner Ring Backing Diameter** 112.500 mm  
4.430 in

**Da - Outer Ring Backing Diameter** 147.470 mm  
5.810 in

<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 20  
 Bearing Weight 2.041 kg

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Dynamic Radial Rating 106757 N  
 Static Radial Rating 94747 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**