


The Timken Company

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Part Number 105BIC470B2, Fafnir® Large Imperial Ball Bearings (XLS, BIC)

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

Ball Type	STEEL
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Dimensions

d - Bore	10.5 in
D - Outer Diameter	14 in 355.6 mm
Bearing Width	1.7500 in 44.45 mm

Load Ratings

C0 - Static Radial Rating	57500 lbf 255773 N
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Ce - Dynamic Radial Rating	50100 lbf 222856 N
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Factors

Limiting Speed (Grease)	960 rpm
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Limiting Speed (Oil)	1120 rpm
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Abutment and Fillet Dimensions

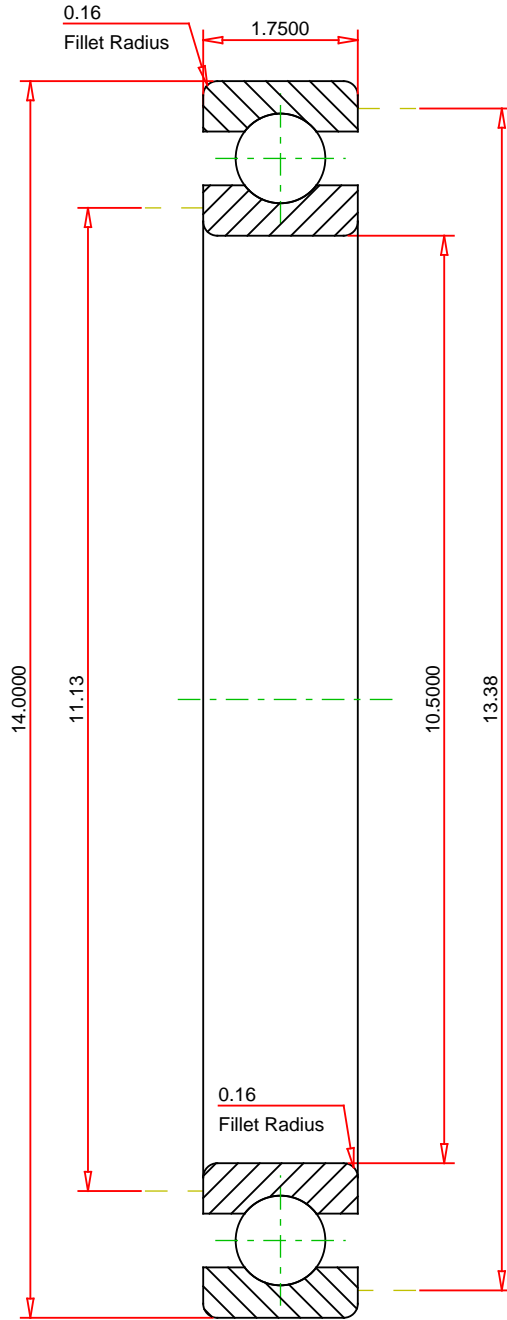
R - Inner Ring "To Clear" Radius	0.160 in 4.1 mm
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r - Outer Ring "To Clear" Radius¹	0.16 in 4.1 mm
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da - Inner Ring Backing Diameter	11.130 in 282.600 mm
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Da - Outer Ring Backing Diameter	13.380 in 339.700 mm
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¹ These maximum fillet radii will be cleared by the bearing corners.



IMPERIAL UNITS

Number of Balls Per Row 19
 Bearing Weight 29.80 lb

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

105BIC470B2
 Fafnir® Large Imperial Ball Bearings (XLS, BIC)

Dynamic Radial Rating 50100 lbf
 Static Radial Rating 57500 lbf

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