


The Timken Company

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Part Number 410H, Fafnir® Deep Groove Ball Bearings (9100K, 200K, 300K)

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	50 mm
Ball Type	STEEL

Dimensions

D - Outer Diameter	130 mm 5.118 in
 Bearing Width	31 mm 1.2205 in

Basic Load Ratings

Ce - Dynamic Radial Rating¹	102000 N 22900 lbf
C0 - Static Radial Rating	54800 N 12300 lbf

Factors

Limiting Speed (Grease)	3281 rpm
Limiting Speed (Oil)	3828 rpm

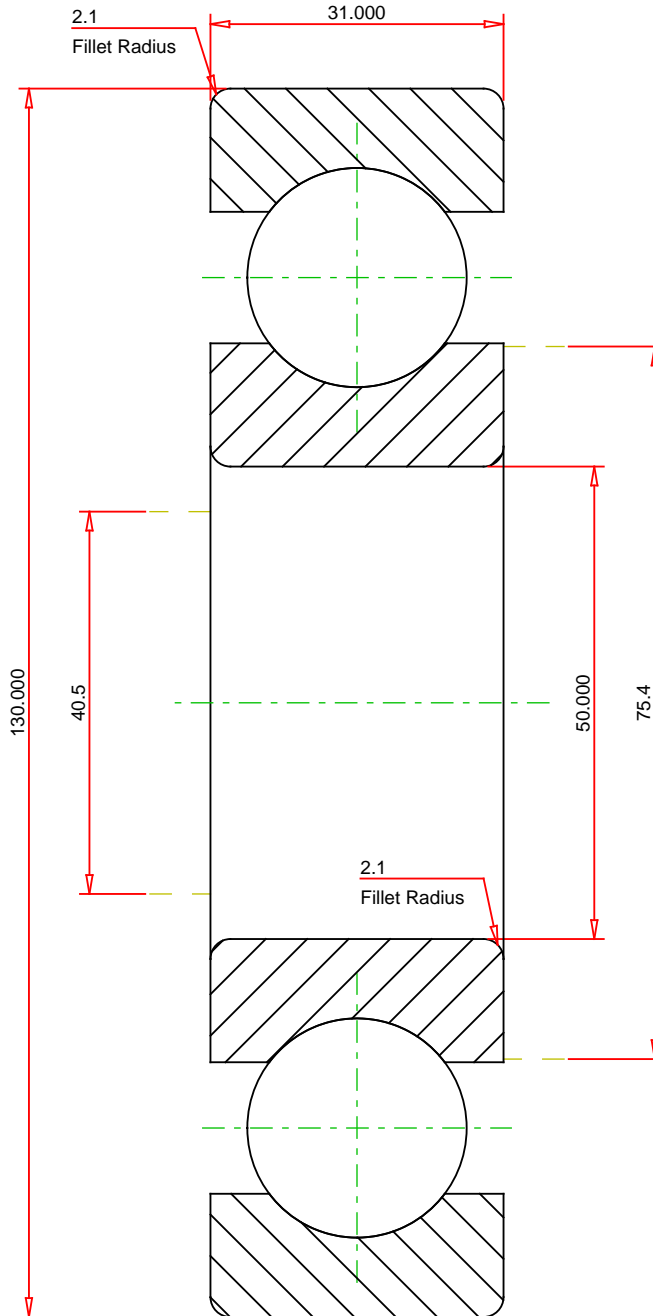
Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	2.11 mm 0.083 in
r - Outer Ring "To Clear" Radius³	2.11 mm 0.083 in
da - Inner Ring Backing Diameter	40.46 mm 1.5930 in
Da - Outer Ring Backing Diameter	75.41 mm 2.9690 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 7
 Bearing Weight 1.882 kg

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 NORTH CANTON, OHIO USA

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Dynamic Radial Rating 102000 N
 Static Radial Rating 54800 N

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