



The Timken Company

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Part Number 2MMV9110HXVVDUMFS637, Fafnir® High Speed Spindle Angular Contact Ball Bearings (9300HX, 9100HX)

Timken® angular contact ball bearings are designed for combination radial and axial loading. Single-row bearings have high thrust capacity in one direction. Some single-row bearings are specifically designed for duplex mounting in sets for maximum performance.



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

Specifications

Rows per Set	Duplex
Seal Type	High Speed
Design Units	Metric
d - Bore	50 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage
Precision Rating	ISO P4S (ABEC 7/9)



Dimensions

D - Outer Diameter	80 mm 3.1496 in
Bearing Width	16 mm 0.6299 in
Total Width	32 mm 1.2598 in
Contact Angle	15 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	12300 N 2760 lbf
Ce - Dynamic Radial Rating (per row)¹	21600 N 4850 lbf
C1 ISO - Dynamic Radial Rating (per row)	19600 N 4410 lbf

Factors

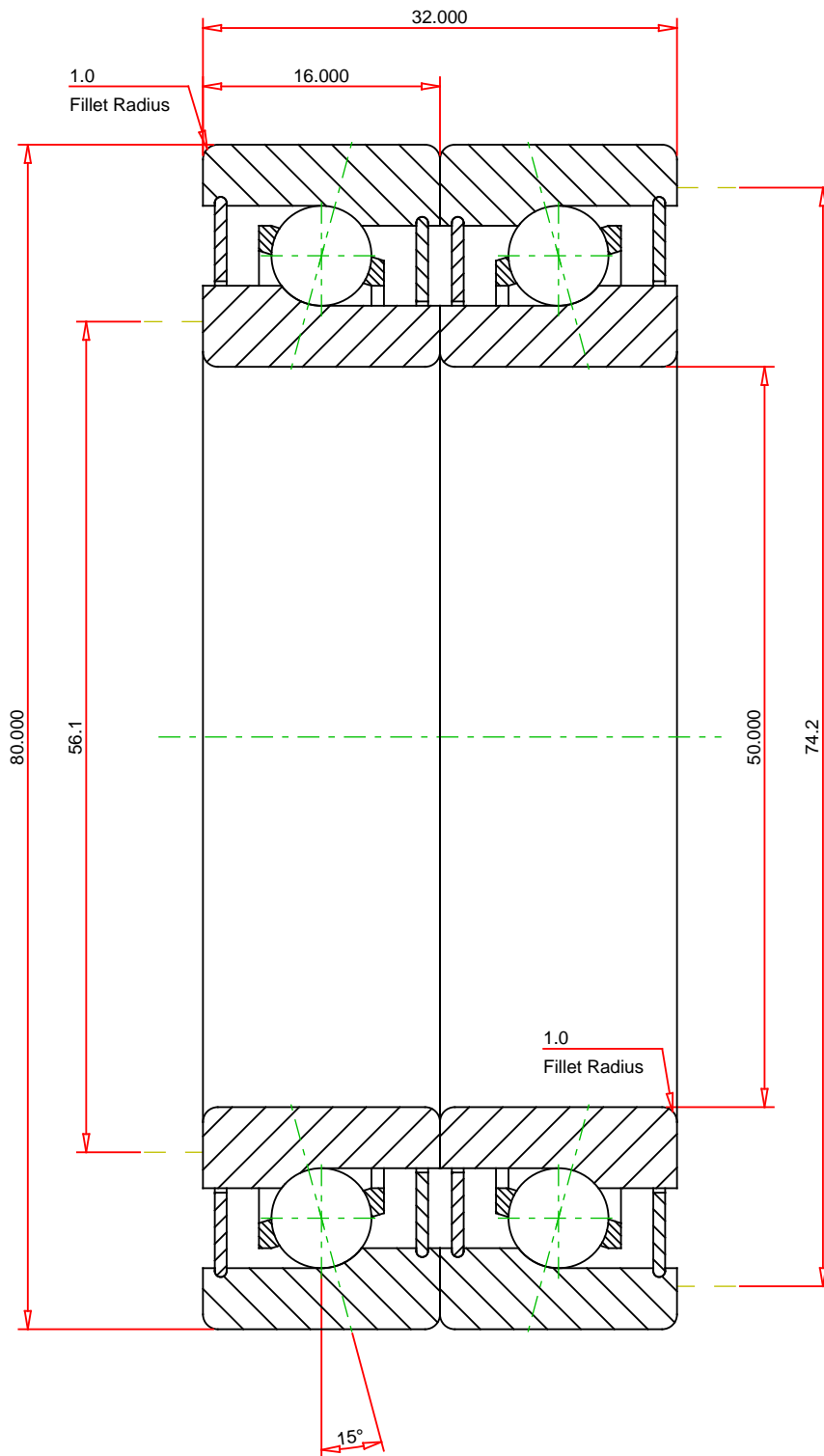
Limiting Speed (Grease) (per row)	21800 rpm
Limiting Speed (Oil)	43600 rpm

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1 mm 0.039 in
r - Outer Ring "To Clear" Radius³	1 mm 0.039 in
da - Inner Ring Backing Diameter	56.1 mm 2.210 in

Da - Outer Ring Backing Diameter	74.2 mm 2.920 in
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- 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	16
Bearing Weight	0.472 kg

TIMKEN®

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NORTH CANTON, OHIO USA

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Dynamic Radial Rating	21600	N
Static Radial Rating	12300	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