


The Timken Company

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Part Number 3MMV9322HXVVDULFS637, 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.



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Specifications

Rows per Set	Duplex
Seal Type	High Speed
Design Units	Metric
d - Bore	110 mm
Ball Type	STEEL
Cage Type	CR - Phenolic Outer Land Riding Cage

Dimensions



D - Outer Diameter	150 mm 5.9055 in
Bearing Width	20 mm 0.7874 in
Total Width	40 mm 1.5748 in
Contact Angle	25 °

Basic Load Ratings

C0 - Static Radial Rating (per row)	24597 N 5530 lbf
Ce - Dynamic Radial Rating (per row)¹	30291 N 6810 lbf
C1 ISO - Dynamic Radial Rating (per row)	45700 N 10280 lbf

Factors

Limiting Speed (Grease) (per row)	9500 rpm
Limiting Speed (Oil)	19000 rpm

Abutment and Fillet Dimensions

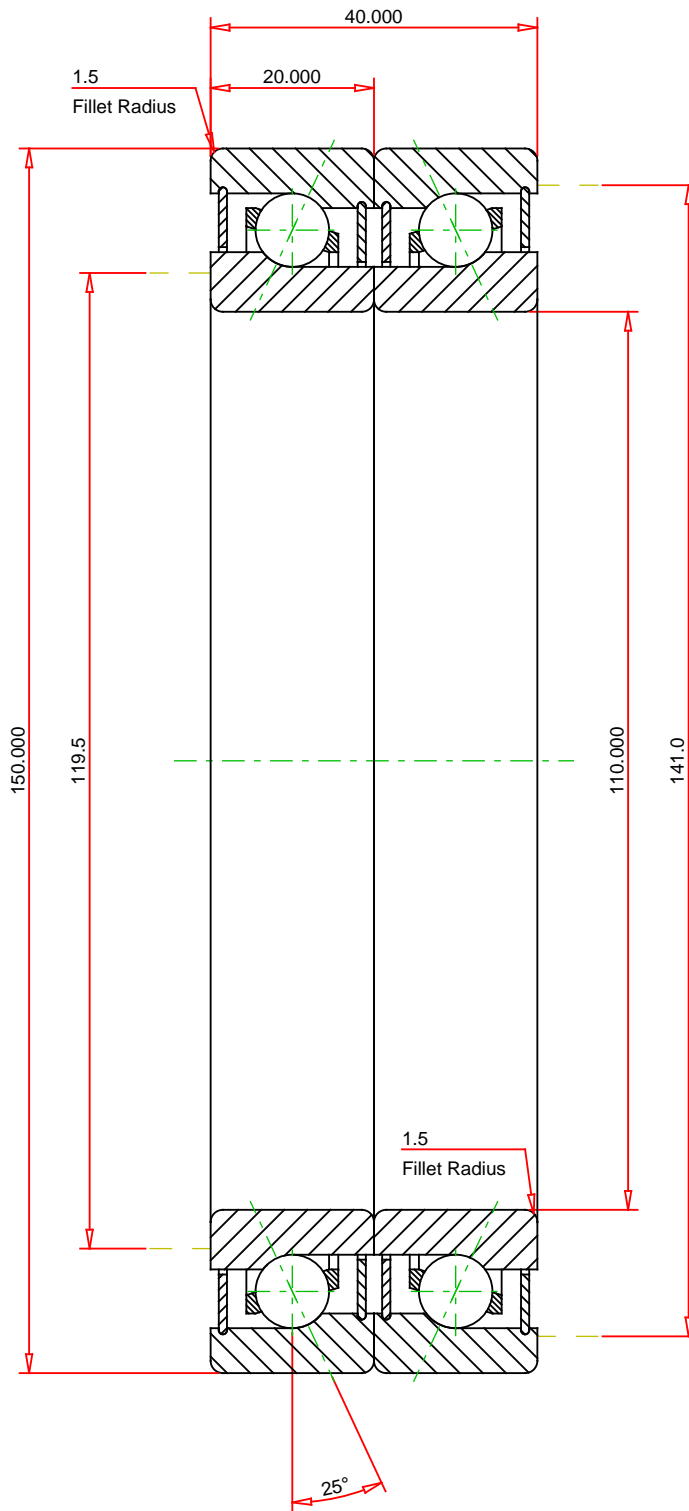
R - Inner Ring "To Clear" Radius²	1.5 mm 0.059 in
r - Outer Ring "To Clear" Radius³	1.5 mm 0.059 in

da - Inner Ring Backing Diameter	119.5 mm 4.710 in
Da - Outer Ring Backing Diameter	141 mm 5.550 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 32
 Bearing Weight 1.840 kg

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THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

Dynamic Radial Rating 30291 N
 Static Radial Rating 24597 N

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