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Timken Part Number 7307WN, Fafnir® Single Row Angular Contact Ball Bearings (7200, 7300, 7400)

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.



Dimensions | Basic Load Ratings | Factors | Specifications | Abutment and Fillet Dimensions

Dimensions

d - Bore	35.000 mm 1.3780 in
D - Outer Diameter	80.000 mm 3.1496 in
Bearing Width	21.000 mm 0.8268 in
Contact Angle	40 °
do - Ball Diameter	13.493750 mm 0.531250 in

Basic Load Ratings

C0 - Static Radial Rating	23900 N 5400 lbf
Ce - Dynamic Radial Rating[1]	41300 N 9300 lbf

Factors

Limiting Speed (Grease)	6090 rpm
Limiting Speed (Oil)	6960 rpm

Specifications

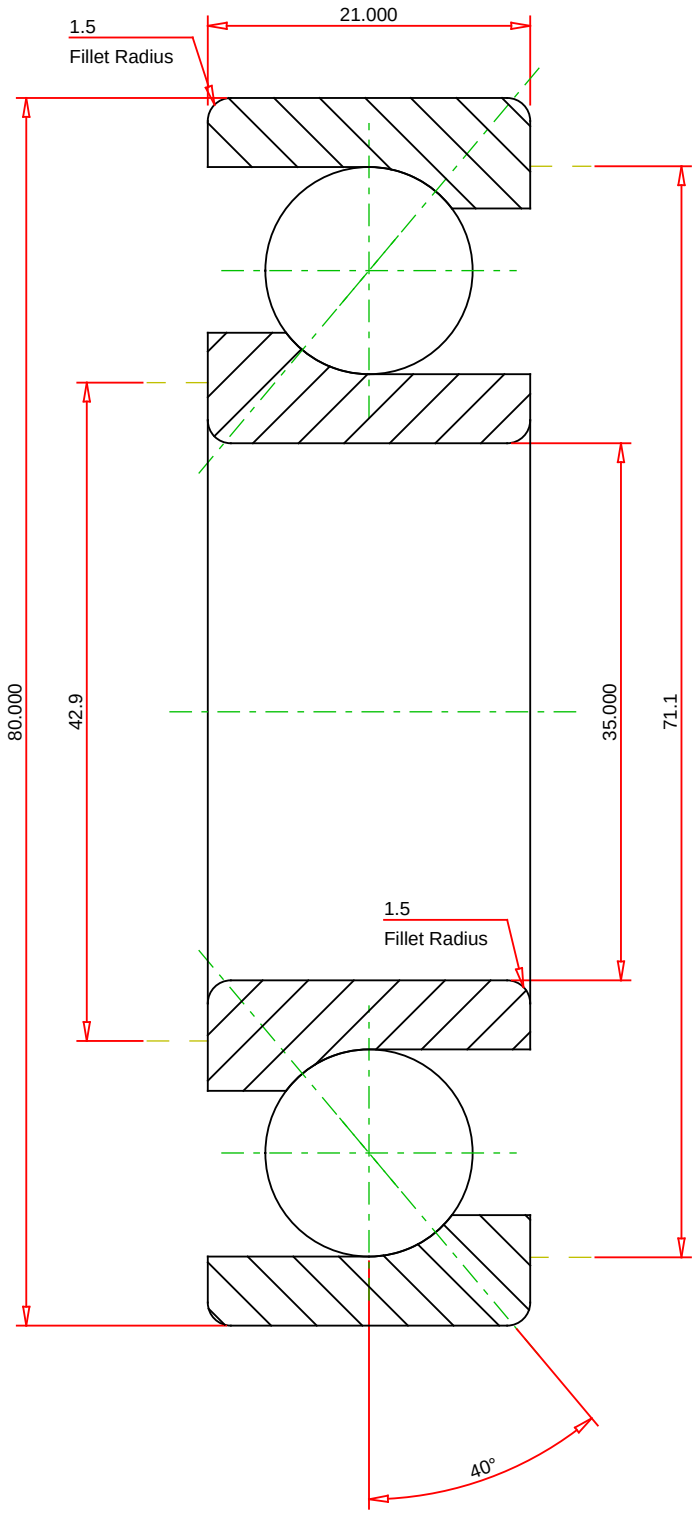
Ball Type	Steel
Cage Type	Ball Piloted, Pressed Brass Cage
Bearing Weight	0.408 Kg 0.90 lb
Design Units	METRIC

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.500 mm 0.059 in
r - Outer Ring "To Clear" Radius[3]	1.500 mm 0.059 in
da - Inner Ring Backing Diameter	42.900 mm 1.690 in
Da - Outer Ring Backing Diameter	71.100 mm 2.800 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	12	
Bearing Weight	0.408	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7307WN

Fafnir® Single Row Angular Contact Ball Bearings
(7200, 7300, 7400)

Dynamic Radial Rating	41300	N
Static Radial Rating	23900	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