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Timken Part Number 7210WN, 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	50.000 mm 1.9685 in
D - Outer Diameter	90.000 mm 3.5433 in
Bearing Width	20.000 mm 0.7874 in
Contact Angle	40 °
do - Ball Diameter	12.70000 mm 0.50000 in

Basic Load Ratings

C0 - Static Radial Rating	28400 N 6400 lbf
Ce - Dynamic Radial Rating[1]	42500 N 9500 lbf

Factors

Limiting Speed (Grease)	4300 rpm
Limiting Speed (Oil)	5720 rpm

Specifications

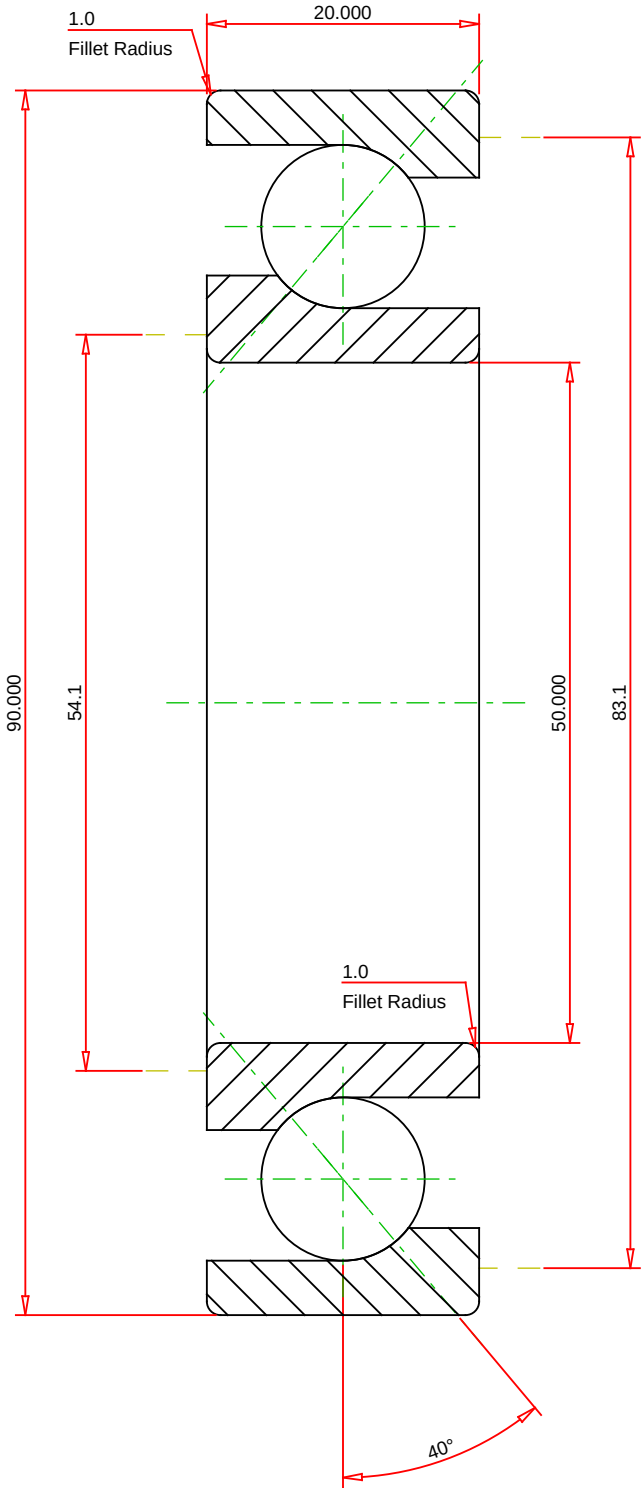
Ball Type	Steel
Cage Type	Ball Piloted, Pressed Brass Cage
Bearing Weight	0.508 Kg 1.12 lb
Design Units	METRIC

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.000 mm 0.043 in
r - Outer Ring "To Clear" Radius[3]	1.000 mm 0.043 in
da - Inner Ring Backing Diameter	54.100 mm 2.130 in
Da - Outer Ring Backing Diameter	83.100 mm 3.270 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	15	
Bearing Weight	0.508	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7210WN

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

Dynamic Radial Rating	42500	N
Static Radial Rating	28400	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