The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Timken Part Number 7304WN, 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	20.000 mm 0.7874 in
D - Outer Diameter	52.000 mm 2.0472 in
Bearing Width	15.000 mm 0.5906 in
Contact Angle	40 °
do - Ball Diameter	9.52500 mm 0.37500 in

Basic Load Ratings

C0 - Static Radial Rating	9590 N 2160 lbf
Ce - Dynamic Radial Rating[1]	19500 N 4400 lbf

Factors

Limiting Speed (Grease)	9760 rpm
Limiting Speed (Oil)	11150 rpm

Specifications

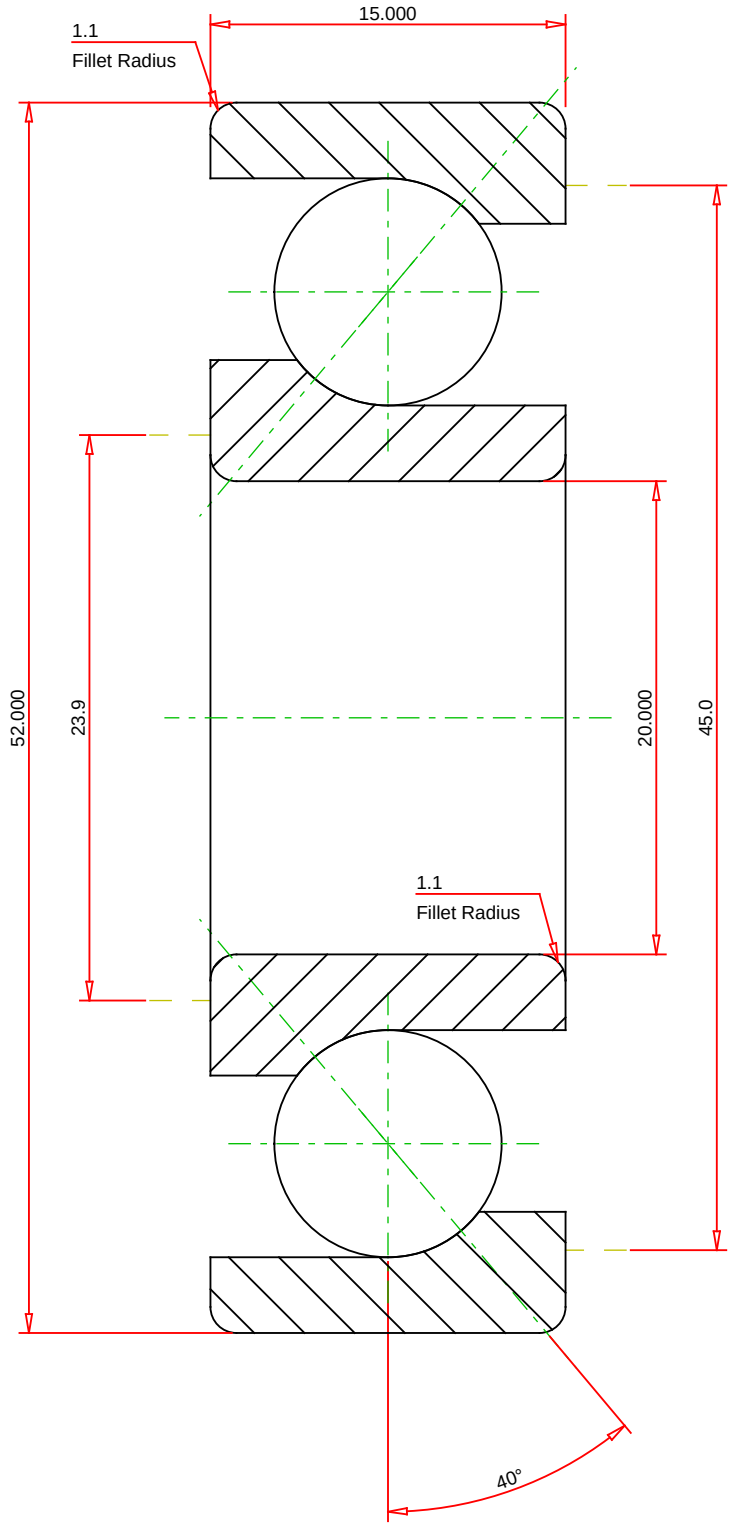
Ball Type	Steel
Cage Type	Ball Piloted, Pressed Brass Cage
Bearing Weight	0.150 Kg 0.33 lb
Design Units	METRIC

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[2]	1.100 mm 0.043 in
r - Outer Ring "To Clear" Radius[3]	1.100 mm 0.043 in
da - Inner Ring Backing Diameter	23.900 mm 0.940 in
Da - Outer Ring Backing Diameter	45.000 mm 1.770 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	10	
Bearing Weight	0.150	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7304WN

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

Dynamic Radial Rating	19500	N
Static Radial Rating	9590	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