



The Timken Company

4500 Mt Pleasant St. NW

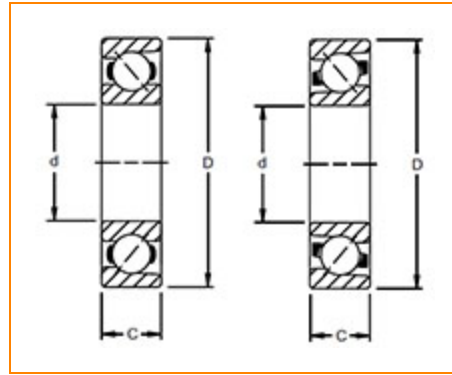
N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 7209WN SU, 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	45 mm
D - Outer Diameter	85 mm 3.3465 in
Bearing Width	19 mm 0.748 in
Contact Angle	40°

Basic Load Ratings

 C₀ - Static Radial Rating	25900 N 5850 lbf
--	---------------------

Ce - Dynamic Radial Rating¹	40500 N 9150 lbf
---	---------------------

Factors

Limiting Speed (Grease)	4625 rpm
--------------------------------	----------

Limiting Speed (Oil)	6165 rpm
-----------------------------	----------

Specifications

Ball Type	STEEL
------------------	-------

Cage Type	Ball Piloted, Pressed Brass Cage
------------------	----------------------------------

Design Units	Metric
---------------------	--------

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius²	1.1 mm 0.043 in
---	--------------------

r - Outer Ring "To Clear" Radius³	1.1 mm 0.043 in
---	--------------------

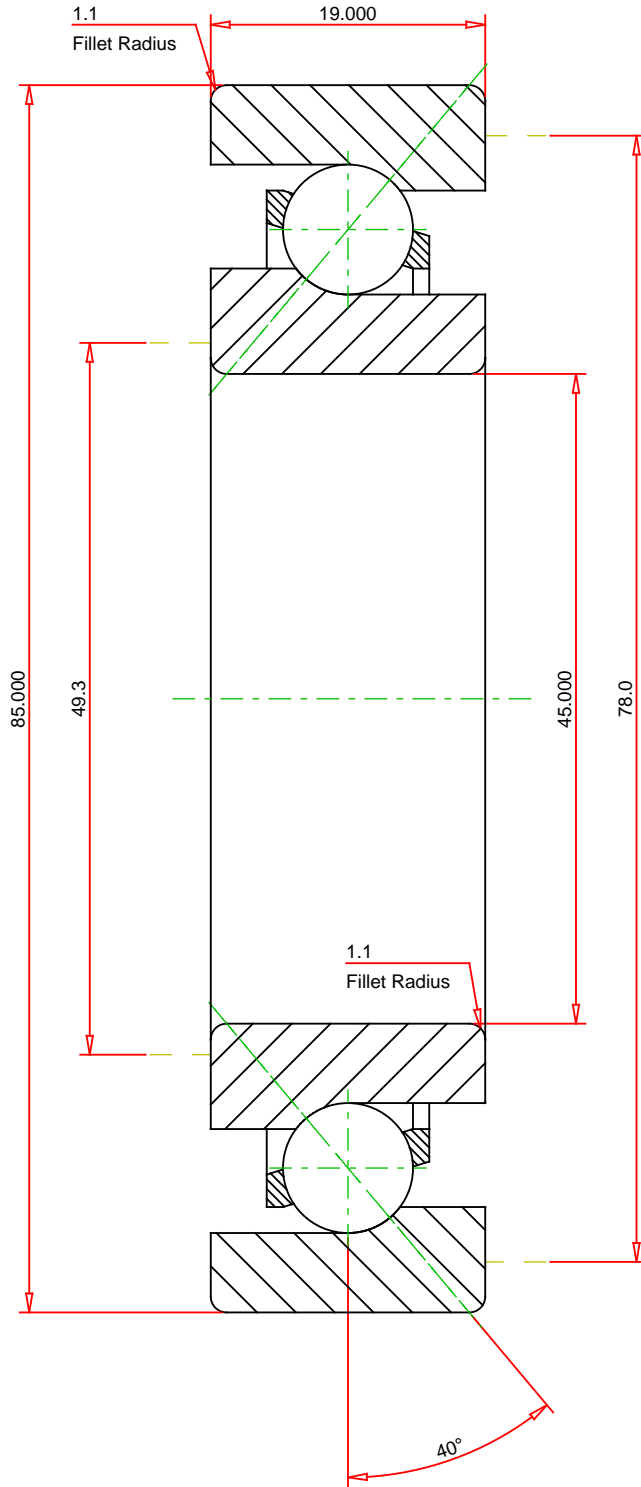
da - Inner Ring Backing Diameter	49.3 mm 1.940 in
---	---------------------

Da - Outer Ring Backing Diameter	78.00 mm 3.070 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 14
 Bearing Weight 0.435 kg

TIMKEN®

THE TIMKEN COMPANY
 NORTH CANTON, OHIO USA

7209WN SU
 Fafnir® Single Row Angular Contact Ball Bearings
 (7200, 7300, 7400)

Dynamic Radial Rating 40500 N
 Static Radial Rating 25900 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