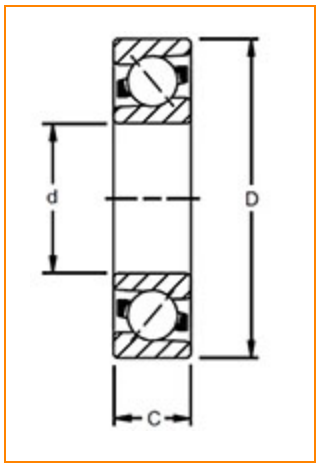
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 7307 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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	35.00 mm 1.378 in
D - Outer Diameter	80.00 mm 3.1496 in
Bearing Width	21.00 mm 0.8268 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	24200 N 5439 lbf
	38400 N

C1 ISO - Dynamic Radial Rating	38400 N 8631 lbf

Factors

Limiting Speed (Grease)	8400 rpm
Limiting Speed (Oil)	11000 rpm

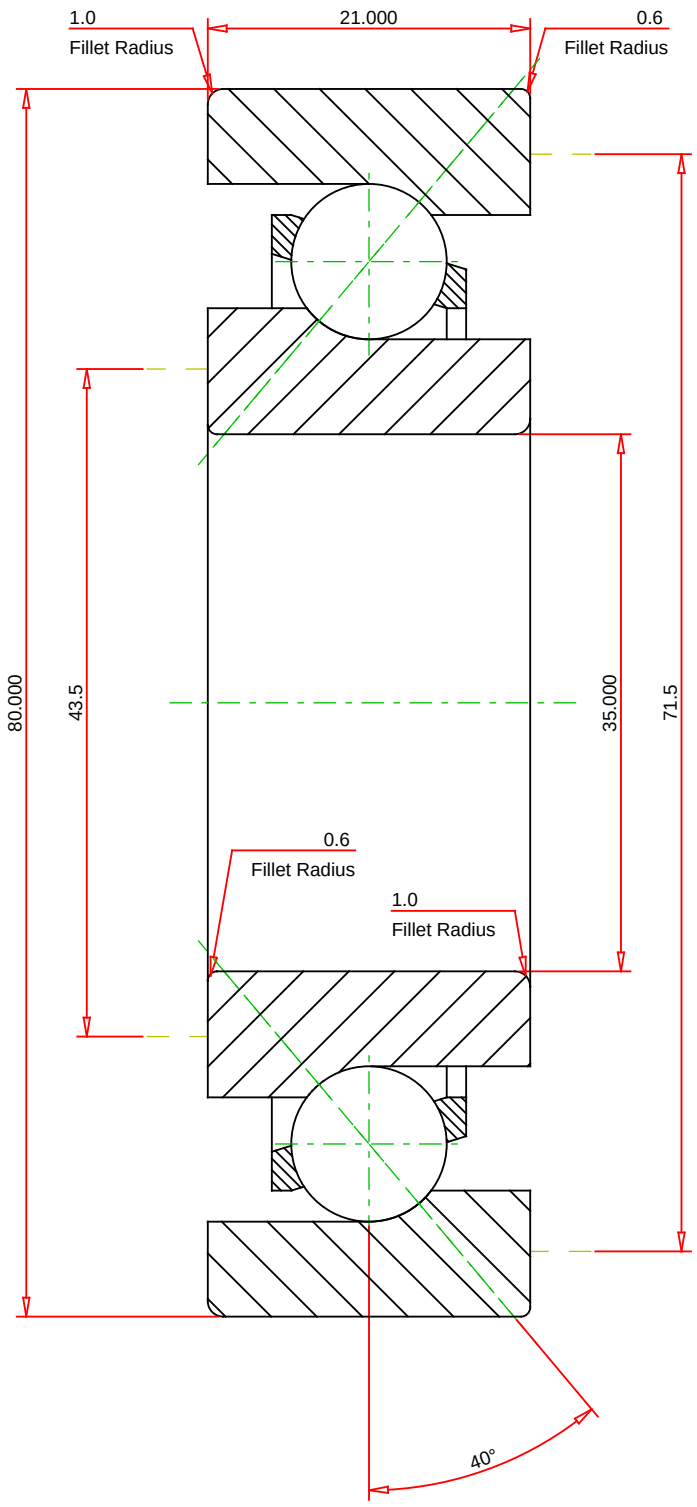
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	0.47 Kg 1.036 lb
Design Units	METRIC
R - Inner Ring "Touch" Radius	0.6
r - Outer Ring "Touch" Radius	0.6
Features	Open

Abutment and Fillet Dimensions

R - Inner Ring "To Clear" Radius[1]	1.00 mm 0.039 in
r - Outer Ring "To Clear" Radius[2]	1.00 mm 0.039 in
da - Inner Ring Backing Diameter	43.5 mm 1.713 in
Da - Outer Ring Backing Diameter	71.5 mm 2.815 in

[1] Maximum housing fillet radius that bearing corners will clear.
[2] Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

Number of Balls Per Row	11	
Bearing Weight	0.470	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7307 BTN1

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

Dynamic Radial Rating	38400	N
Static Radial Rating	24200	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