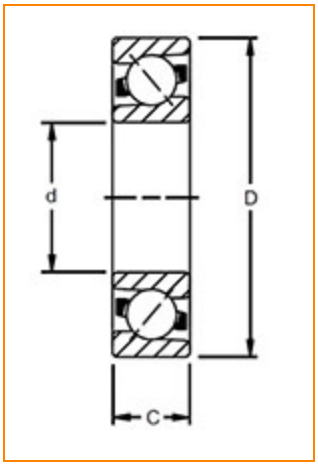
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
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E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 7204 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	20.00 mm 0.7874 in
D - Outer Diameter	47.00 mm 1.8504 in
Bearing Width	14.00 mm 0.5512 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	7700 N 1730 lbf
	13200 N

C1 ISO - Dynamic Radial Rating	13300 N 2989 lbf

Factors

Limiting Speed (Grease)	15000 rpm
Limiting Speed (Oil)	20000 rpm

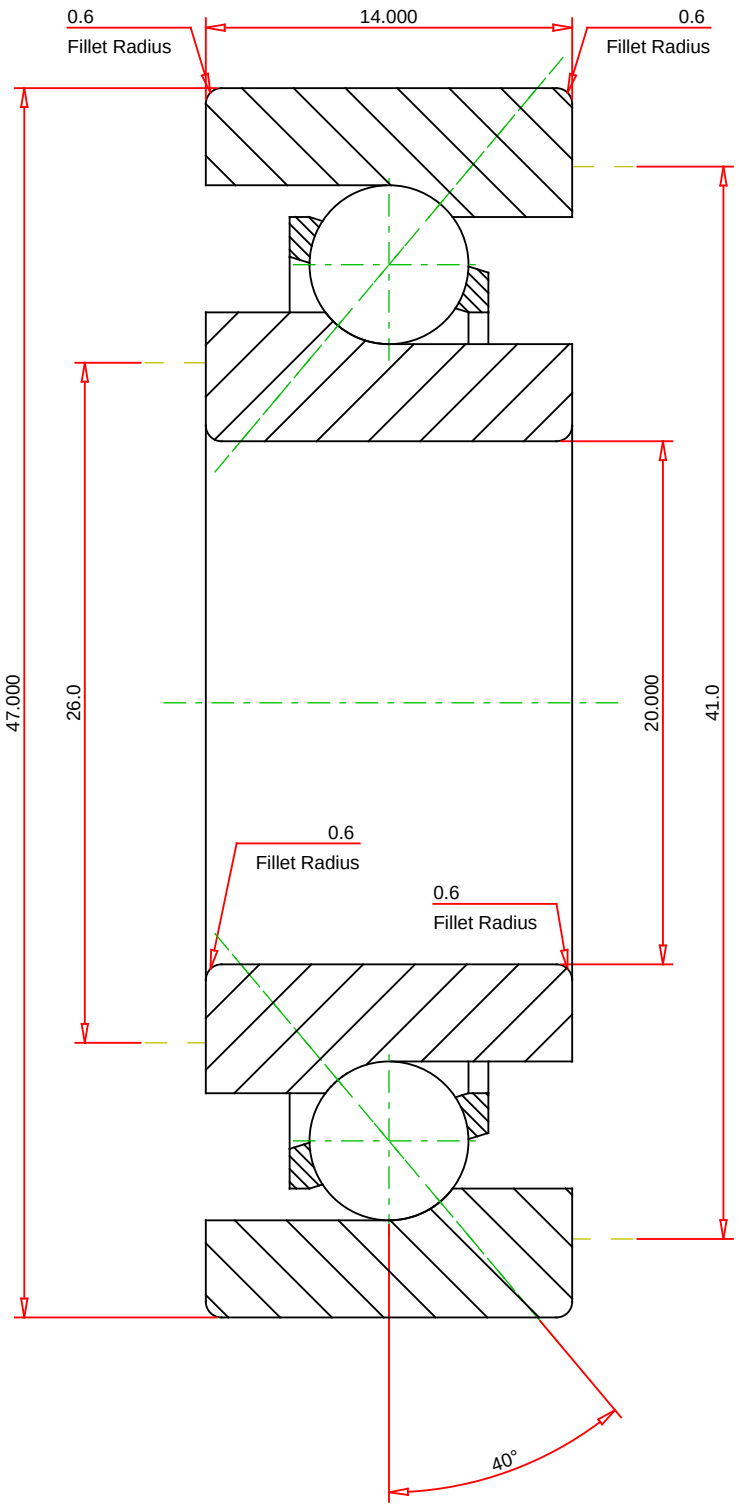
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	0.1 Kg 0.22 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]	0.60 mm 0.024 in
r - Outer Ring "To Clear" Radius[2]	0.60 mm 0.024 in
da - Inner Ring Backing Diameter	26.0 mm 1.024 in
Da - Outer Ring Backing Diameter	41.0 mm 1.614 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	0.100	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7204 BTN1

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

Dynamic Radial Rating	13300	N
Static Radial Rating	7700	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