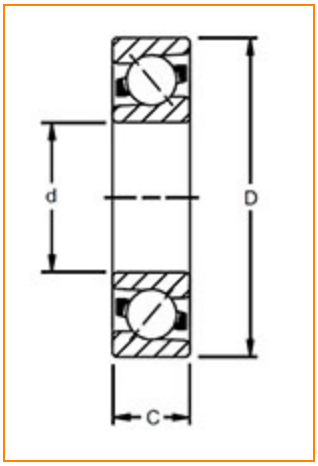
The Timken Company
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N. Canton, OH 44720
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E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 7314 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	70.00 mm 2.7559 in
D - Outer Diameter	150.00 mm 5.9055 in
Bearing Width	35.00 mm 1.3780 in
Contact Angle	40 °

Basic Load Ratings

C0 - Static Radial Rating	86000 N 19330 lbf
	114000 N

C1 ISO - Dynamic Radial Rating	114000 N 25623 lbf

Factors

Limiting Speed (Grease)	4400 rpm
Limiting Speed (Oil)	5800 rpm

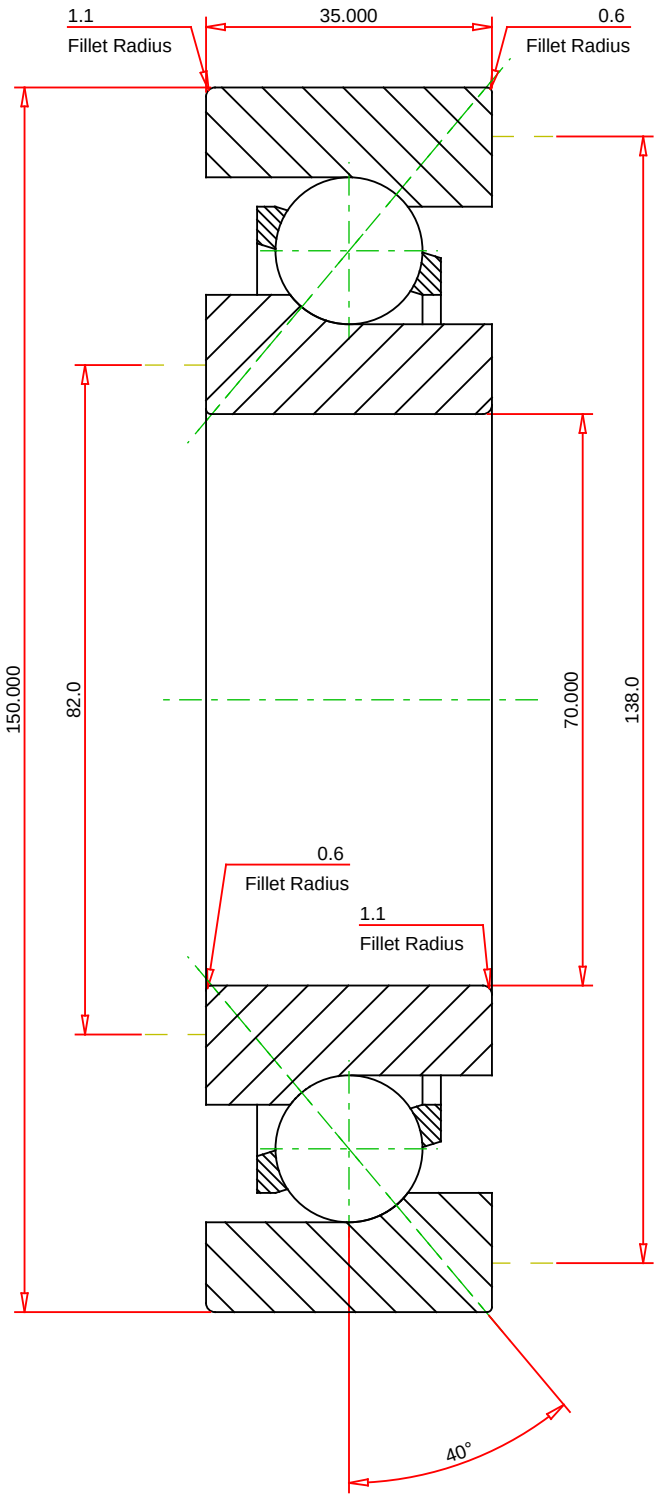
Specifications

Ball Type	STEEL
Cage Type	Molded
Cage Material	Polyamide
Bearing Weight	2.61 Kg 5.755 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]	1.10 mm 0.043 in
r - Outer Ring "To Clear" Radius[2]	1.10 mm 0.043 in
da - Inner Ring Backing Diameter	82.00 mm 3.2280 in
Da - Outer Ring Backing Diameter	138.0 mm 5.433 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	12	
Bearing Weight	2.610	kg

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

7314 BTN1

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

Dynamic Radial Rating	114000	N
Static Radial Rating	86000	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