



**The Timken Company**

4500 Mt Pleasant St. NW

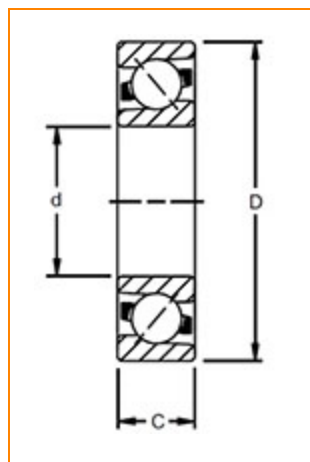
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## Part Number 7305 BTN1, Timken® Single Row Angular Contact Ball Bearings (7200, 7300)

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.



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### Dimensions

<b>d - Bore</b>	25.00 mm 0.9843 in
<b>D - Outer Diameter</b>	62.00 mm 2.4409 in
<b>Bearing Width</b>	17.00 mm 0.6693 in
<b>Contact Angle</b>	40 °

### Basic Load Ratings

<b>C0 - Static Radial Rating</b>	14100 N 3169 lbf
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**C1 ISO - Dynamic Radial Rating** 24400 N  
5484 lbf

## Factors

**Limiting Speed (Grease)** 11000 rpm

**Limiting Speed (Oil)** 15000 rpm

## Specifications

**Ball Type** STEEL

**Cage Type** Molded

**Cage Material** Polyamide

**Bearing Weight** 0.23 Kg  
0.507 lb

**Design Units** METRIC

**R - Inner Ring "Touch" Radius** 0.6

**r - Outer Ring "Touch" Radius** 0.6

**Features** Open

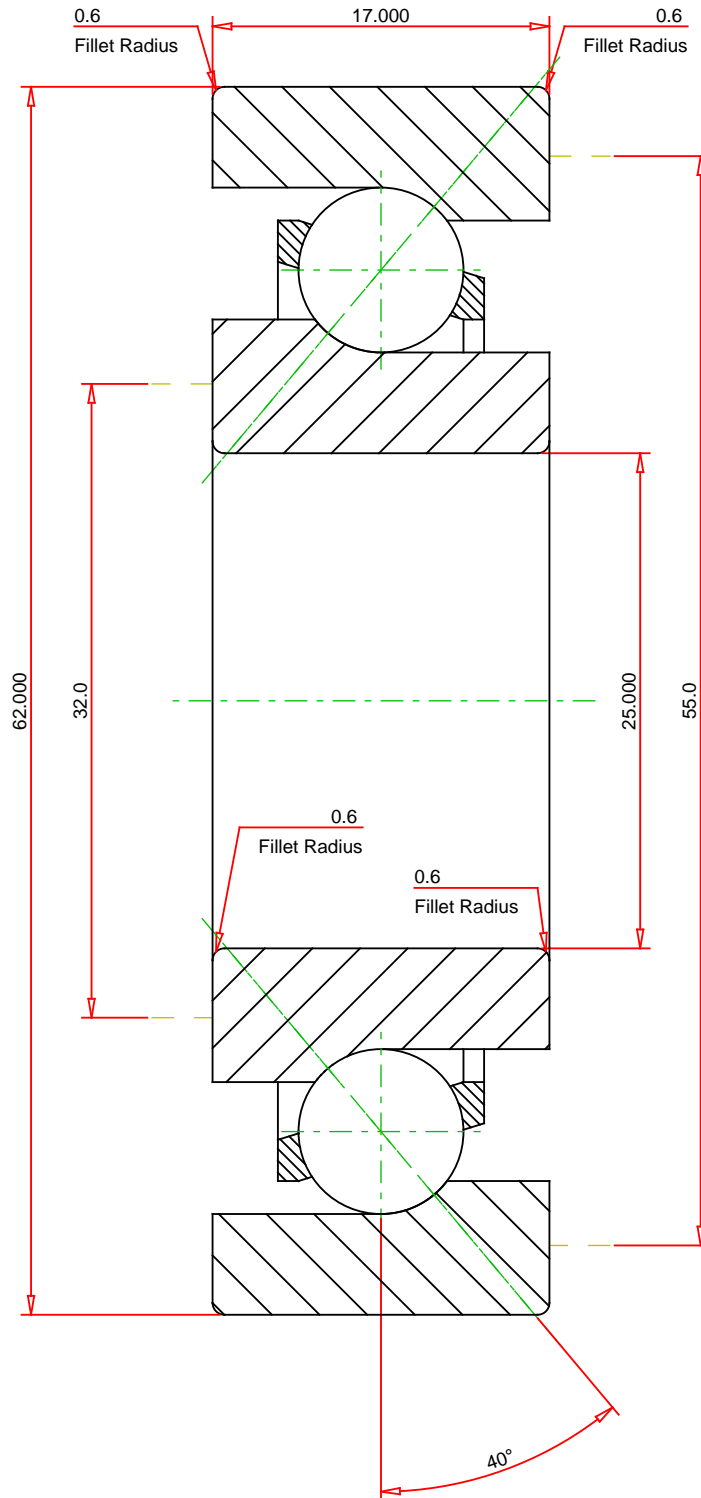
## Abutment and Fillet Dimensions

**R - Inner Ring "To Clear" Radius<sup>1</sup>** 0.60 mm  
0.024 in

**r - Outer Ring "To Clear" Radius<sup>2</sup>** 0.60 mm  
0.024 in

**da - Inner Ring Backing Diameter** 32.0 mm  
1.260 in

**Da - Outer Ring Backing Diameter** 55.0 mm  
2.165 in



## METRIC UNITS

Number of Balls Per Row Bearing Weight	10 0.230 kg	<div>TIMKEN®</div>	7305 BTN1 Timken® Single Row Angular Contact Ball Bearings (7200, 7300)	
		<div>THE TIMKEN COMPANY NORTH CANTON, OHIO USA</div>	<div>Dynamic Radial Rating24400 N Static Radial Rating14100 N</div>	

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