


**The Timken Company**

4500 Mt Pleasant St. NW

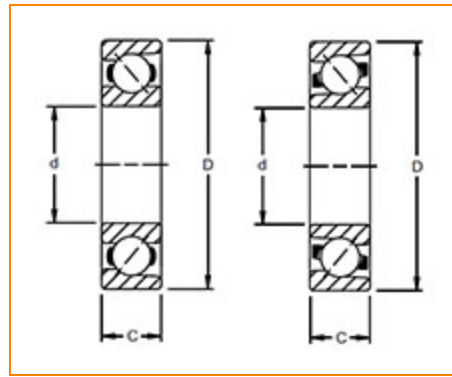
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## Part Number 7207WN SU, Fafnir® Single Row Angular Contact Ball Bearings (7200, 7300, 7400)

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

|                           |                    |
|---------------------------|--------------------|
| <b>d - Bore</b>           | 35 mm              |
| <b>D - Outer Diameter</b> | 72 mm<br>2.8346 in |
| <b>Bearing Width</b>      | 17 mm<br>0.6693 in |
| <b>Contact Angle</b>      | 40 °               |

### Basic Load Ratings

|  |                     |
|--|---------------------|
|  <b>C<sub>0</sub> - Static Radial Rating</b> | 18000 N<br>4150 lbf |
|--|---------------------|

|   |                     |
|---|---------------------|
| <b>Ce - Dynamic Radial Rating<sup>1</sup></b> | 30800 N<br>6950 lbf |
|---|---------------------|

## Factors

|                                |          |
|--------------------------------|----------|
| <b>Limiting Speed (Grease)</b> | 5620 rpm |
|--------------------------------|----------|

|                             |          |
|-----------------------------|----------|
| <b>Limiting Speed (Oil)</b> | 7490 rpm |
|-----------------------------|----------|

## Specifications

|                  |       |
|------------------|-------|
| <b>Ball Type</b> | STEEL |
|------------------|-------|

|                  |                                  |
|------------------|----------------------------------|
| <b>Cage Type</b> | Ball Piloted, Pressed Brass Cage |
|------------------|----------------------------------|

|                     |        |
|---------------------|--------|
| <b>Design Units</b> | Metric |
|---------------------|--------|

## Abutment and Fillet Dimensions

|   |                    |
|---|--------------------|
| <b>R - Inner Ring "To Clear" Radius<sup>2</sup></b> | 1.1 mm<br>0.043 in |
|---|--------------------|

|   |                    |
|---|--------------------|
| <b>r - Outer Ring "To Clear" Radius<sup>3</sup></b> | 1.1 mm<br>0.043 in |
|---|--------------------|

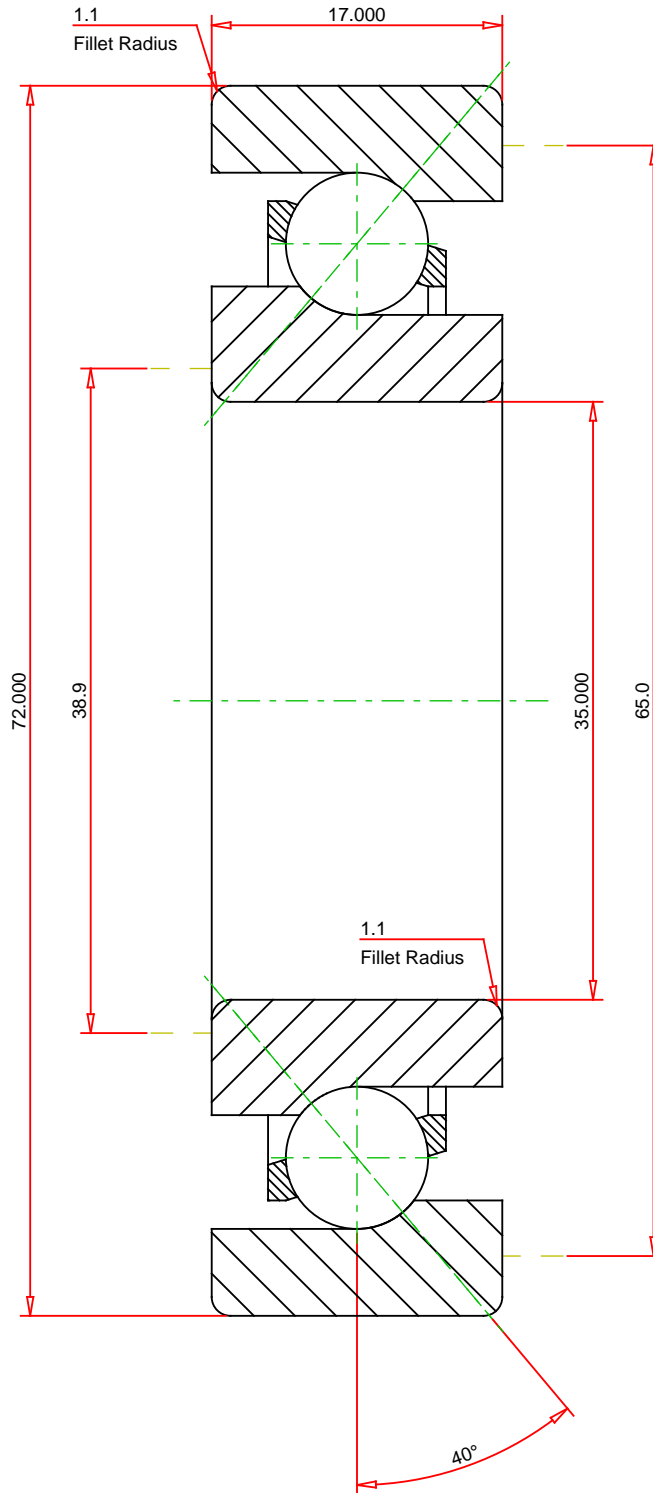
|   |                       |
|---|-----------------------|
| <b>da - Inner Ring Backing Diameter</b> | 38.90 mm<br>1.5300 in |
|---|-----------------------|

|   |                       |
|---|-----------------------|
| <b>Da - Outer Ring Backing Diameter</b> | 65.00 mm<br>2.5600 in |
|---|-----------------------|

<sup>1</sup> Based on  $10^6$  revolutions of calculated fatigue life.

<sup>2</sup> Maximum housing fillet radius that bearing corners will clear.

<sup>3</sup> Maximum shaft fillet radius that bearing corners will clear.



METRIC UNITS

|                         |          |
|-------------------------|----------|
| Number of Balls Per Row | 13       |
| Bearing Weight          | 0.286 kg |

**TIMKEN**®

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**THE TIMKEN COMPANY**  
NORTH CANTON, OHIO USA

|  |         |
|--|---------|
| <b>7207WN SU</b>   |         |
| Fafnir® Single Row Angular Contact Ball Bearings<br>(7200, 7300, 7400) |         |
| Dynamic Radial Rating  | 30800 N |
| Static Radial Rating   | 18000 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**