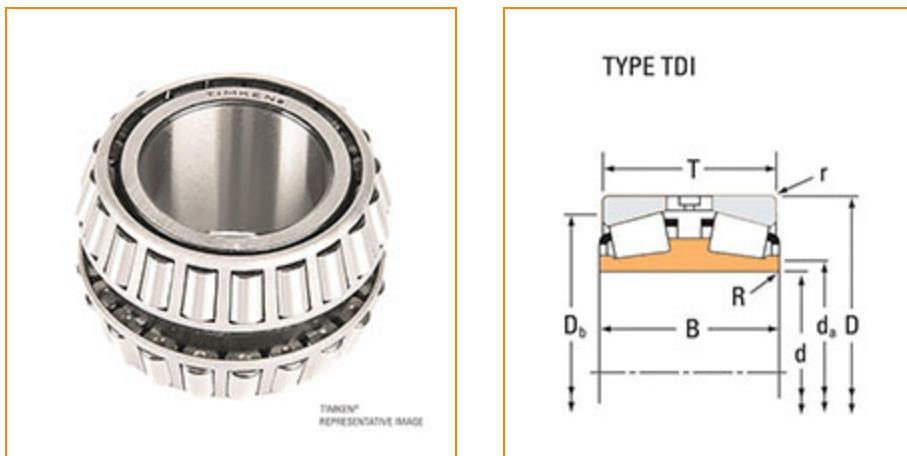




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## Part Number 48290DW, Tapered Roller Bearings - Double Tapered Cones - Imperial

TDI bearings have a one-piece double inner race and two single outer races and are typically supplied complete with an outer race spacer as a pre-set assembly. The bearing can be used at fixed positions on rotation shaft applications. For rotating housing application it can be used to float on the stationary shaft.



[Specifications](#) | [Dimensions](#) | [Abutment and Fillet Dimensions](#) | [Basic Load Ratings](#) | [Factors](#)

### Specifications

Series	48200
Cone Part Number	48290DW
Design Units	Imperial
Cage Type	Stamped Steel
<b>C1 - Dynamic Radial Rating (1 million revolutions)<sup>1</sup></b>	60200 lbf 268000 N
<b>C0 - Static Radial Rating</b>	111000 lbf 493000 N

### Dimensions



5 in

**d - Cone Bore**

127 mm

**B - Double Cone Width**3.0000 in  
76.200 mm**Abutment and Fillet Dimensions****R - Cone Backface "To Clear" Radius<sup>2</sup>** 0.06 in  
1.5 mm**da - Cone Frontface Backing Diameter** 5.39 in  
137 mm**Ab - Cage-Cone Frontface Clearance** 0.09 in  
2.3 mm**Basic Load Ratings****C90 - Dynamic Radial Rating (90 million revolutions)<sup>3</sup>** 15600 lbf  
69400 N**C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions)<sup>4</sup>** 105000 lbf  
466000 N**C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions)<sup>5</sup>** 27200 lbf  
121000 N**C<sub>a</sub>90 - Dynamic Thrust Rating (90 million revolutions)<sup>6</sup>** 8160 lbf  
36300 N**Factors****K - Factor<sup>7</sup>** 1.91**G1 - Heat Generation Factor (Roller-Raceway)** 353**C<sub>g</sub> - Geometry Factor<sup>8</sup>** 0.114

<sup>1</sup> Based on  $1 \times 10^6$  revolutions  $L_{10}$  life, for the ISO life calculation method.

<sup>2</sup> These maximum fillet radii will be cleared by the bearing corners.

<sup>3</sup> Based on  $90 \times 10^6$  revolutions  $L_{10}$  life, for The Timken Company life calculation method.  $C_{90}$  and  $C_{a90}$  are radial and thrust values.

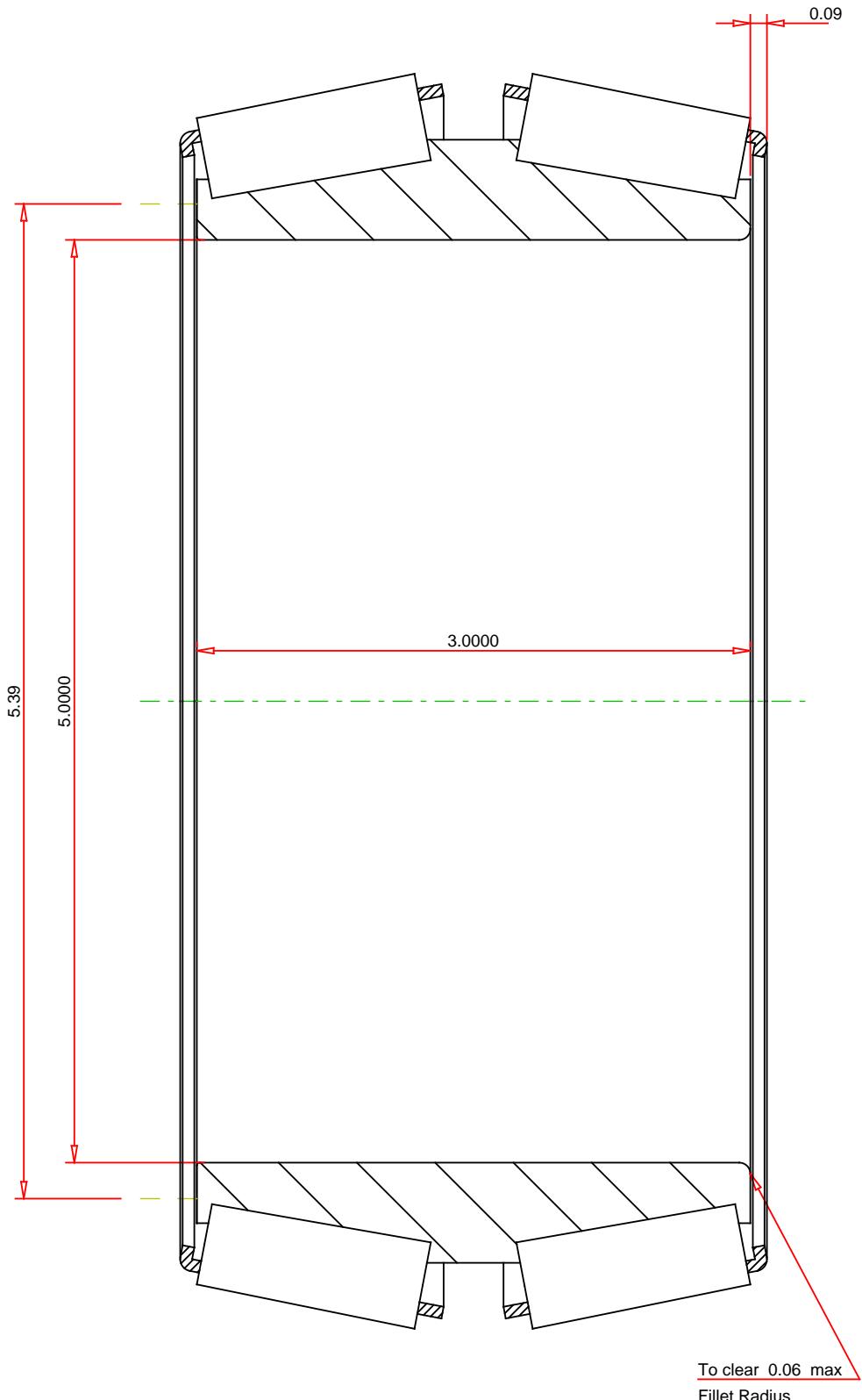
<sup>4</sup> Based on  $1 \times 10^6$  revolutions  $L_{10}$  life, for the ISO life calculation method.

<sup>5</sup> Based on  $90 \times 10^6$  revolutions  $L_{10}$  life, for The Timken Company life calculation method.  $C_{90}$  and  $C_{a90}$  are radial and thrust values for a single-row,  $C_{90(2)}$  is the two-row radial value.

<sup>6</sup> Based on  $90 \times 10^6$  revolutions  $L_{10}$  life, for The Timken Company life calculation method.  $C_{90}$  and  $C_{a90}$  are radial and thrust values for a single-row,  $C_{90(2)}$  is the two-row radial value.

<sup>7</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>8</sup> Geometry constant for Lubrication Life Adjustment Factor a3l.



## IMPERIAL UNITS

ISO Factor - e  
 ISO Factor - Y1  
 ISO Factor - Y2  
 Number of Rollers Per Row

33

**TIMKEN**®

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

**48290DW**  
 Tapered Roller Bearings - Double Tapered Cones - Imperial

K Factor	1.91
Dynamic Radial Rating - C90	15600 lbf
Dynamic Thrust Rating - Ca90	8160 lbf
Dynamic Radial Rating - C90(2)	27200 lbf
Radial Rating - C1	105000 lbf