



**The Timken Company**

4500 Mt Pleasant St. NW

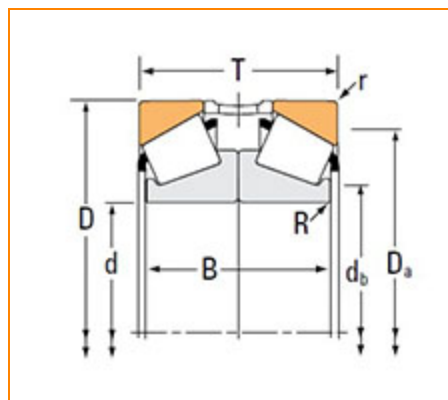
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## Part Number HH840249 - HH840210 (HH840210EA), Tapered Roller Bearings - 2TS-DM (Matched Bearing Assembly, Direct Mount)

Tapered Roller Bearings - 2TS-DM (Matched Bearing Assembly, Direct Mount)



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### Specifications

<b>Cone Part Number</b>	HH840249
<b>Cup Part Number</b>	HH840210
<b>Related Assembly Number(s)</b>	HH840249-90011 HH840249-90013 HH840249-90015
<b>Outer Spacer Part Number</b>	HH840210EA
<b>Design Unit</b>	Inch

### Dimensions



- Bore

7.5 in  
190.5 mm

<b>D - Cup Outer Diameter</b>	13.2500 in 336.550 mm
<b>T - Width</b>	7.7500 in 196.850 mm
<b>B - Width</b>	7.5000 in 190.500 mm

## Abutment and Fillet Dimensions

<b>R - Cone Backface "To Clear" Radius<sup>1</sup></b>	0.06 in 1.5 mm
<b>r - Cup Backface "To Clear" Radius<sup>2</sup></b>	0.250 in 6.35 mm
<b>db - Cone Backface Backing Diameter</b>	9.21 in 234 mm
<b>Da - Cup Frontface Backing Diameter</b>	12.53 in 318.30 mm

## Basic Load Ratings

<b>C90 - Dynamic Radial Rating (90 million revolutions)<sup>3</sup></b>	67100 lbf 299000 N
<b>C1 - Dynamic Radial Rating (1 million revolutions)<sup>4</sup></b>	451000 lbf 2010000 N
<b>C<sub>a90</sub> - Dynamic Thrust Rating (90 million revolutions)<sup>5</sup></b>	66200 lbf 294000 N
<b>C90<sub>(2)</sub> - Dynamic Radial Rating (Two-Row, 90 million revolutions)<sup>6</sup></b>	117000 lbf 520000 N

## Factors

<b>K - Factor<sup>7</sup></b>	1.01
<b>e - ISO Factor<sup>8</sup></b>	0.58
<b>Y1 - ISO Factor<sup>9</sup></b>	1.17
<b>Y2 - ISO Factor<sup>10</sup></b>	1.75

<sup>1</sup> These maximum fillet radii will be cleared by the bearing corners.

<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.

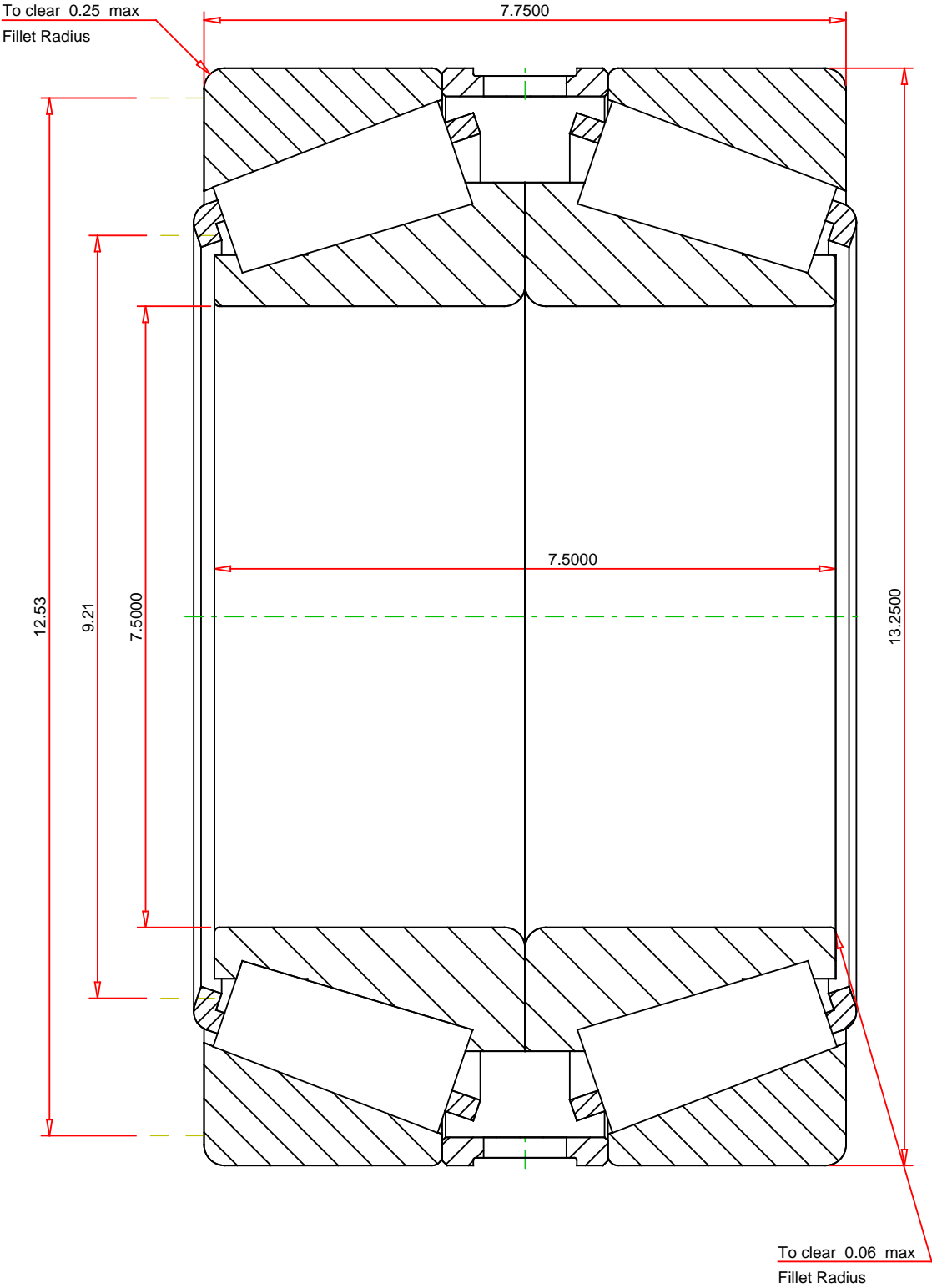
<sup>6</sup> Based on  $90 \times 10^6$  revolutions  $L_{10}$  life, for The Timken Company life calculation method.  $C_{90}$  and  $C_{a90}$  are radial and thrust values for a single-row,  $C_{90(2)}$  is the two-row radial value.

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

<sup>8</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>9</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>10</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.



To clear 0.06 max  
Fillet Radius

IMPERIAL UNITS

ISO Factor - e ISO Factor - Y1 ISO Factor - Y2	0.58 1.17 1.75	<div>TIMKEN®</div>		HH840249 - HH840210 (HH840210EA) Tapered Roller Bearings - 2TS-DM (Matched Bearing Assembly, Direct Mount)	
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA		<div>K Factor1.01</div> <div>Dynamic Radial Rating - C9067100lbf</div> <div>Dynamic Thrust Rating - Ca9066200lbf</div> <div>Dynamic Radial Rating - C90(2)117000lbf</div> <div>Radial Rating - C1451000lbf</div>	

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.

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