



The Timken Company

4500 Mt Pleasant St. NW

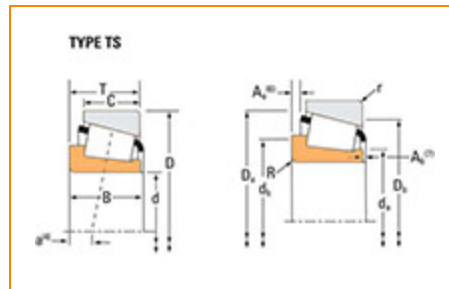
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Part Number 67384, Tapered Roller Bearings - Single Cones - Imperial

This is the most basic and most widely used type of tapered roller bearing. It consists of two main separable parts: the cone (inner ring) assembly and the cup (outer ring). It is typically mounted in opposing pairs on a shaft.



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Specifications

Series	67300
Cone Part Number	67384
Design Units	Imperial
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions) ¹	171000 lbf 759000 N
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions) ²	44200 lbf 197000 N

Dimensions

d - Bore	4.7500 in 120.650 mm
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B - Cone Width	1.8125 in 46.038 mm
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Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius ³	0.310 in 7.900 mm
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da - Cone Frontface Backing Diameter	5.28 in 134 mm
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db - Cone Backface Backing Diameter	5.83 in 148 mm
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Ab - Cage-Cone Frontface Clearance	0.09 in 2.3 mm
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Aa - Cage-Cone Backface Clearance	0.13 in 3.3 mm
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a - Effective Center Location ⁴	-0.25 in -6.4 mm
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Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions) ⁵	25400 lbf 113000 N
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C1 - Dynamic Radial Rating (1 million revolutions) ⁶	97900 lbf 436000 N
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C0 - Static Radial Rating	141000 lbf 625000 N
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C _{a90} - Dynamic Thrust Rating (90 million revolutions) ⁷	15000 lbf 66500 N
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Factors

K - Factor⁸	1.7
G1 - Heat Generation Factor (Roller-Raceway)	383.7
G2 - Heat Generation Factor (Rib-Roller End)	70.1
Cg - Geometry Factor⁹	0.122

¹ Based on 1×10^6 revolutions L_{10} life, for the ISO life calculation method.

² Based on 90×10^6 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.

³ These maximum fillet radii will be cleared by the bearing corners.

⁴ Negative value indicates effective center inside cone backface.

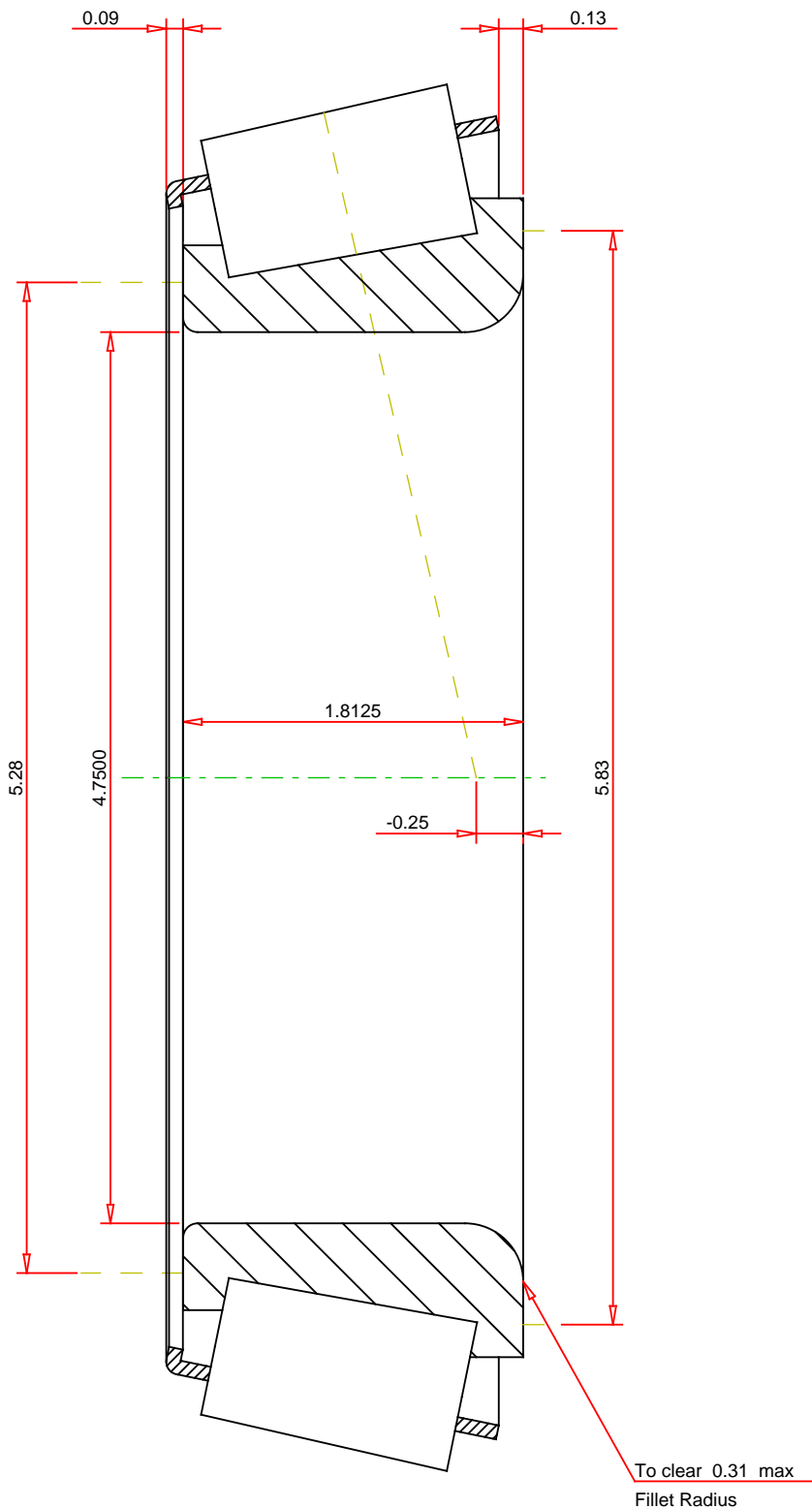
⁵ Based on 90×10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values.

⁶ Based on 1×10^6 revolutions L_{10} life, for the ISO life calculation method.

⁷ Based on 90×10^6 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.

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

⁹ Geometry constant for Lubrication Life Adjustment Factor a_3 .



IMPERIAL UNITS

<div>Number of Rollers Per Row29</div>	<div>TIMKEN®</div> <div>THE TIMKEN COMPANY</div> <div>NORTH CANTON, OHIO USA</div>	<div>67384</div> <div>SINGLE TAPERED CONE</div> <div><div>K Factor1.7</div><div>Dynamic Radial Rating - C9025400 lbf</div><div>Dynamic Thrust Rating - Ca9015000 lbf</div><div>Dynamic Radial Rating - C197900 lbf</div></div>
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