



The Timken Company

4500 Mt Pleasant St. NW

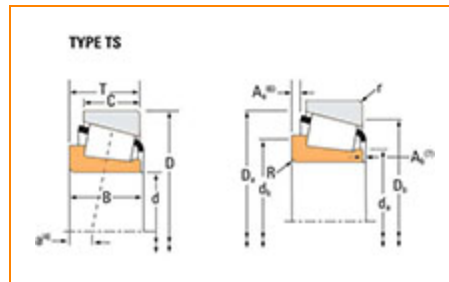
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Part Number 95525, Tapered Roller Bearings - Single Cones - Imperial

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	95000
Cone Part Number	95525
Design Units	Imperial
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions)¹	246000 lbf 1090000 N
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions)²	63800 lbf 284000 N



Dimensions

d - Cone Bore	5 1/4 in 133.35 mm
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B - Cone Width	2.5 in 63.5 mm
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Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius³	0.38 in 9.7 mm
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da - Cone Frontface Backing Diameter	5.83 in 148 mm
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db - Cone Backface Backing Diameter	6.54 in 166 mm
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Ab - Cage-Cone Frontface Clearance	0.19 in 4.8 mm
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Aa - Cage-Cone Backface Clearance	0.22 in 5.6 mm
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a - Effective Center Location⁴	-0.55 in -14 mm
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Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions)⁵	36700 lbf 163000 N
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C1 - Dynamic Radial Rating (1 million revolutions)⁶	141000 lbf 629000 N
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C0 - Static Radial Rating	209000 lbf 931000 N
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C_{a90} - Dynamic Thrust Rating (90 million revolutions)⁷	23200 lbf 103000 N
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Factors

K - Factor⁸	1.58
G1 - Heat Generation Factor (Roller-Raceway)	453.9
G2 - Heat Generation Factor (Rib-Roller End)	59.4
Cg - Geometry Factor⁹	0.132

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.

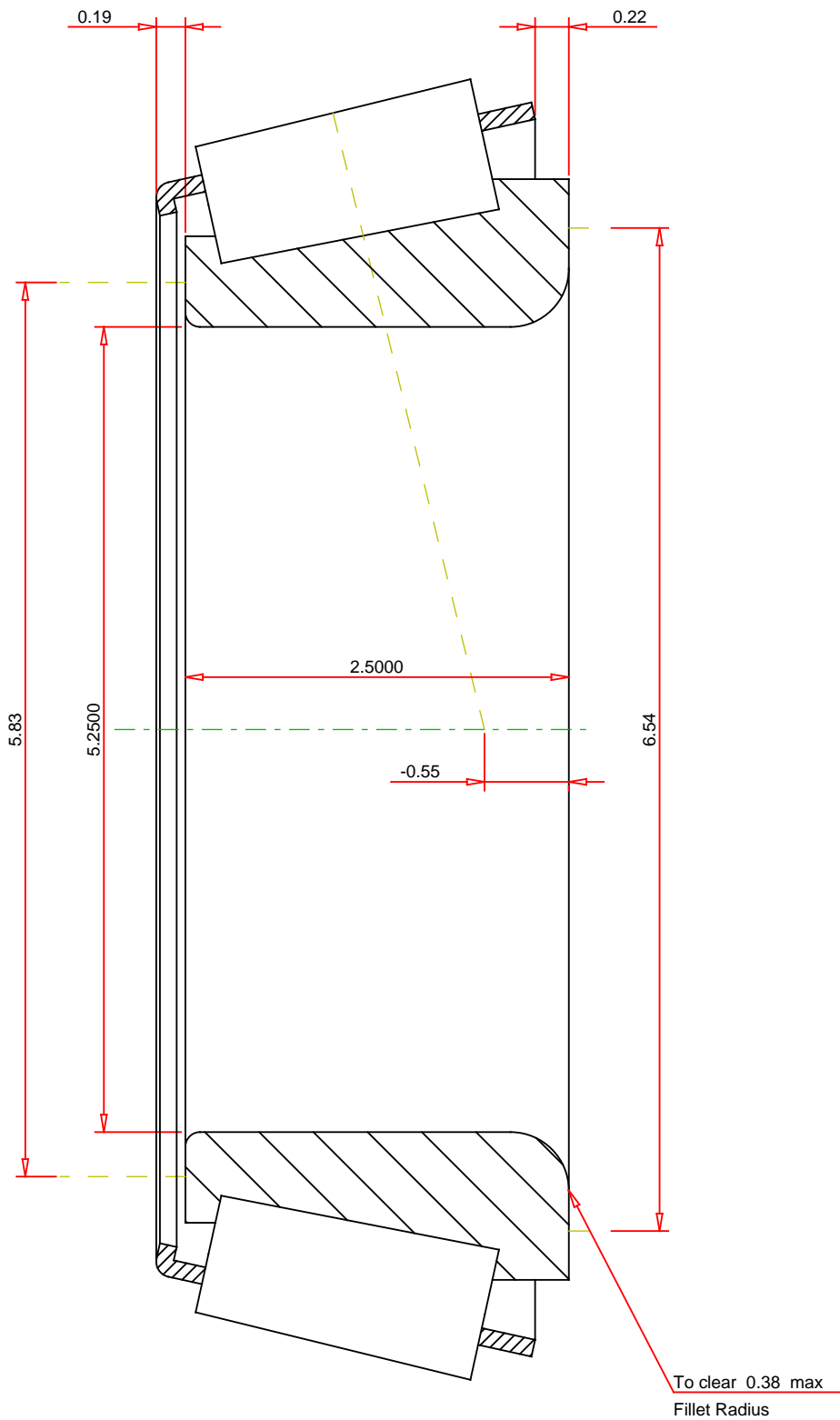
⁵ Based on 90×10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values.

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 Row21</div>	<div><div>TIMIKEN®</div><div>THE TIMKEN COMPANY</div><div>NORTH CANTON, OHIO USA</div></div>	<div><div>95525</div><div>Tapered Roller Bearings - Single Cones - Imperial</div></div> <div><div><div>K Factor</div><div>Dynamic Radial Rating - C90</div><div>Dynamic Thrust Rating - Ca90</div><div>Dynamic Radial Rating - C1</div></div><div><div>1.58</div><div>36700 lbf</div><div>23200 lbf</div><div>141000 lbf</div></div></div>
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