



The Timken Company

4500 Mt Pleasant St. NW

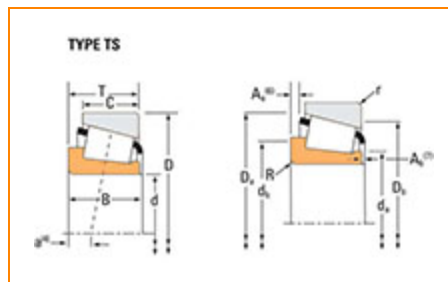
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Part Number 41125, Tapered Roller Bearings - Single Cones - Imperial

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	41000
Cone Part Number	41125
Design Units	Imperial
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions)¹	32300 lbf 144000 N
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions)²	8390 lbf 37300 N



Dimensions

d - Cone Bore	1.1250 in 28.575 mm
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B - Cone Width	0.9550 in 24.257 mm
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Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius³	0.190 in 4.80 mm
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da - Cone Frontface Backing Diameter	1.44 in 36.5 mm
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db - Cone Backface Backing Diameter	1.89 in 48 mm
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Ab - Cage-Cone Frontface Clearance	0.12 in 3 mm
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Aa - Cage-Cone Backface Clearance	0.09 in 2.3 mm
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a - Effective Center Location⁴	-0.16 in -4.1 mm
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Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions)⁵	4820 lbf 21400 N
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C1 - Dynamic Radial Rating (1 million revolutions)⁶	18600 lbf 82600 N
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C0 - Static Radial Rating	14400 lbf 64100 N
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C_{a90} - Dynamic Thrust Rating (90 million revolutions)⁷	4960 lbf 22100 N
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Factors

K - Factor⁸	0.97
G1 - Heat Generation Factor (Roller-Raceway)	13
G2 - Heat Generation Factor (Rib-Roller End)	5.83
Cg - Geometry Factor⁹	0.0686

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.

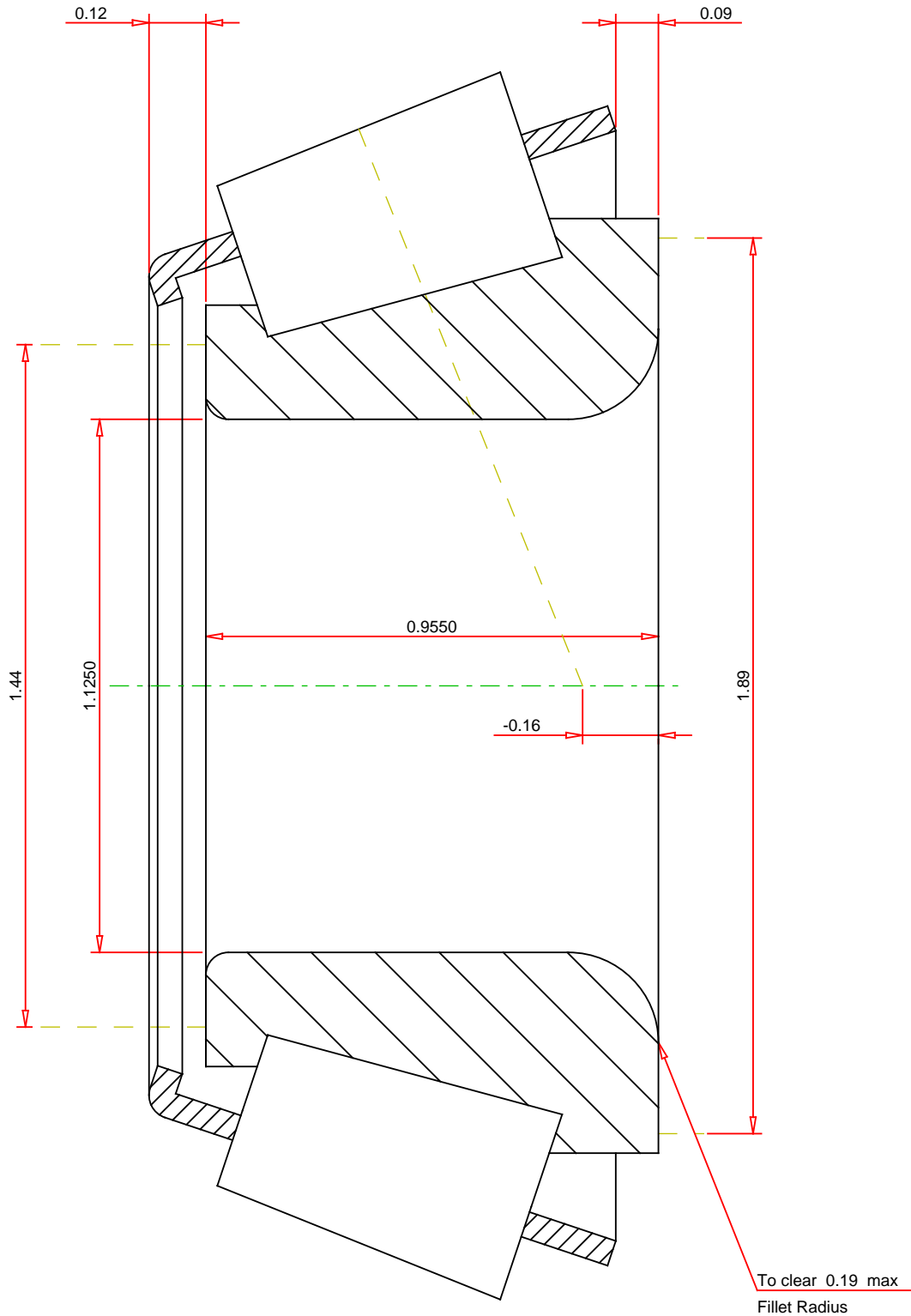
⁵ Based on 90×10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values.

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

Number of Rollers Per Row

11

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

41125

Tapered Roller Bearings - Single Cones - Imperial

K Factor	0.97
Dynamic Radial Rating - C90	21400 lbf
Dynamic Thrust Rating - Ca90	22100 lbf
Dynamic Radial Rating - C1	82600 lbf

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