



The Timken Company

4500 Mt Pleasant St. NW

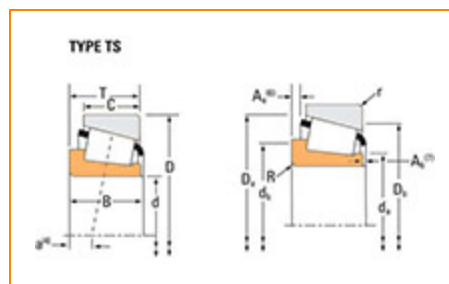
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Part Number 6379, Tapered Roller Bearings - Single Cones - Imperial

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	6300
Cone Part Number	6379
Design Units	Imperial
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions)¹	149000 lbf 663000 N
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions)²	38700 lbf 172000 N



Dimensions

d - Cone Bore	2.5625 in 65.088 mm
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B - Cone Width	2.2050 in 56.007 mm
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Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius³	0.140 in 3.6 mm
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da - Cone Frontface Backing Diameter	3.04 in 77 mm
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db - Cone Backface Backing Diameter	3.31 in 84 mm
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Ab - Cage-Cone Frontface Clearance	0.05 in 1.3 mm
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Aa - Cage-Cone Backface Clearance	0.13 in 3.3 mm
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a - Effective Center Location⁴	-0.76 in -19.3 mm
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Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions)⁵	22200 lbf 98800 N
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C1 - Dynamic Radial Rating (1 million revolutions)⁶	85600 lbf 381000 N
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C0 - Static Radial Rating	90900 lbf 404000 N
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C_{a90} - Dynamic Thrust Rating (90 million revolutions)⁷	12300 lbf 54900 N
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Factors

K - Factor⁸	1.8
G1 - Heat Generation Factor (Roller-Raceway)	124
G2 - Heat Generation Factor (Rib-Roller End)	22.4
Cg - Geometry Factor⁹	0.0827

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.

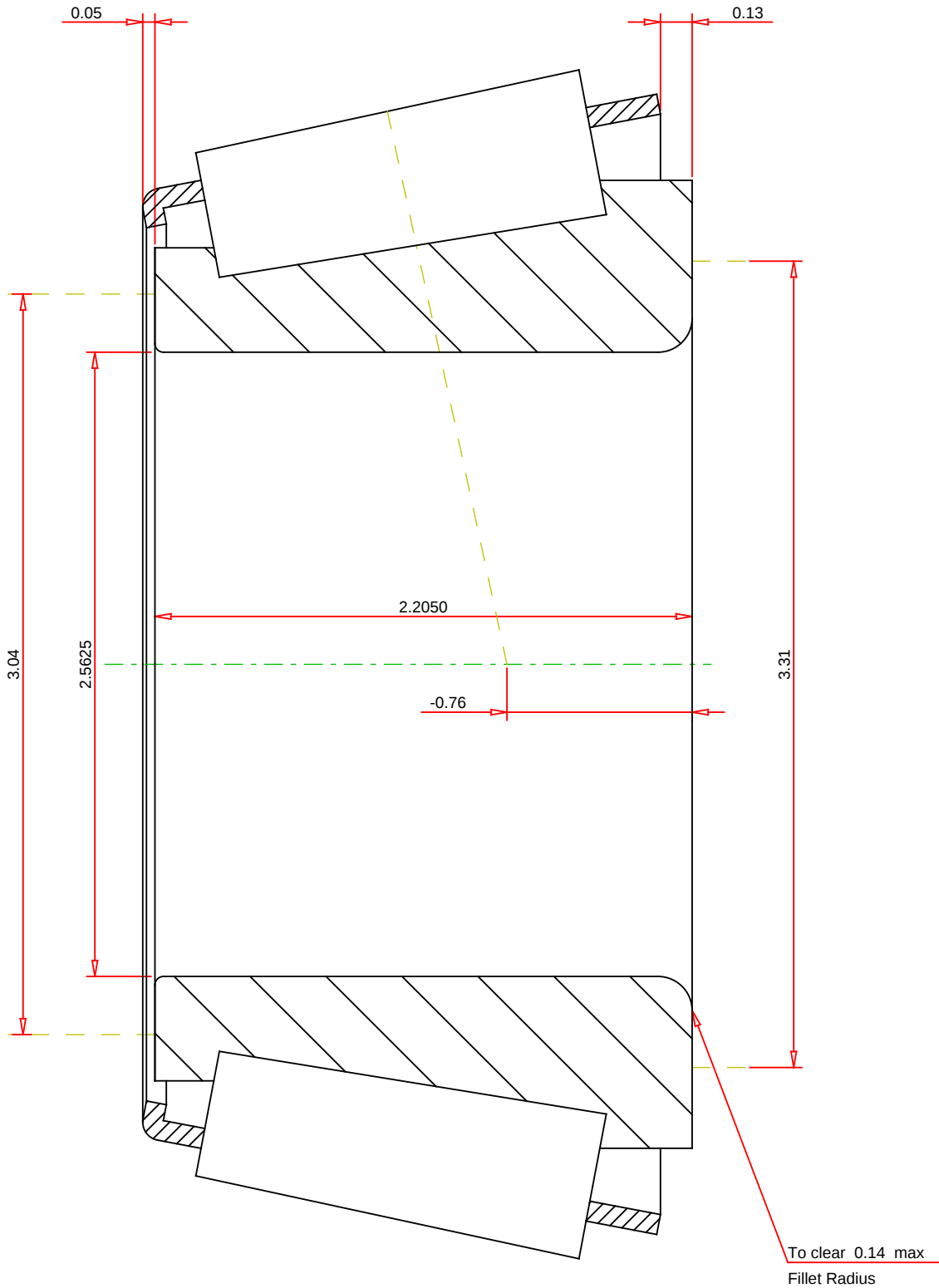
⁵ Based on 90×10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values.

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 Row15	TIMKEN® THE TIMKEN COMPANY NORTH CANTON, OHIO USA	6379 Tapered Roller Bearings - Single Cones - Imperial K Factor Dynamic Radial Rating - C90 Dynamic Thrust Rating - Ca90 Dynamic Radial Rating - C1 1.8 98800 lbf 54900 lbf 381000 lbf
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