

## The Timken Company

4500 Mt Pleasant St. NW N. Canton, OH 44720

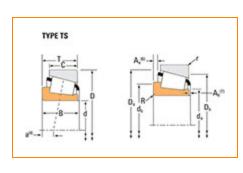
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## Part Number 6379, Tapered Roller Bearings - Single Cones - Imperial

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.





## <u>Specifications</u> | <u>Dimensions</u> | <u>Abutment and Fillet Dimensions</u> | <u>Basic Load Ratings</u> | <u>Factors</u>

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



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d - Cone Bore	2.5625 in 65.088 mm
B - Cone Width	2.2050 in 56.007 mm

Abutment and Fillet Dimensions						
R - Cone Backface Radius <sup>3</sup>	"To Clear"	0.14 in 3.600 mm				
da - Cone Frontface Diameter	e Backing	3.04 in 77 mm				
db - Cone Backface Diameter	e Backing	3.31 in 84 mm				
Ab - Cage-Cone Fro	ontface	0.05 in 1.3 mm				
Aa - Cage-Cone Ba Clearance	ckface	0.13 in 3.3 mm				
a - Effective Center	r Location <sup>4</sup>	-0.76 in -19.3 mm				

Basic Load Ratings -						
C90 - Dynamic Radial Rating (90 million revolutions) <sup>5</sup>	22200 lbf 98800 N					
C1 - Dynamic Radial Rating (1 million revolutions) <sup>6</sup>	85600 lbf 381000 N					
C0 - Static Radial Rating	90900 lbf 404000 N					
C <sub>a90</sub> - Dynamic Thrust Rating (90 million revolutions) <sup>7</sup>	12300 lbf 54900 N					

- ac	actors –						
	K - Factor <sup>8</sup>	1.8					
	G1 - Heat Generation Factor (Roller-Raceway)	124					
	G2 - Heat Generation Factor (Rib-Roller End)	22.4					
	Cg - Geometry Factor <sup>9</sup>	0.0827					

 $<sup>^{1}</sup>$  Based on 1 x  $10^{6}$  revolutions  $L_{10}$  life, for the ISO life calculation method.

 $<sup>^2</sup>$  Based on 90 x  $10^6$  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>&</sup>lt;sup>3</sup> These maximum fillet radii will be cleared by the bearing corners.

<sup>&</sup>lt;sup>4</sup> Negative value indicates effective center inside cone backface.

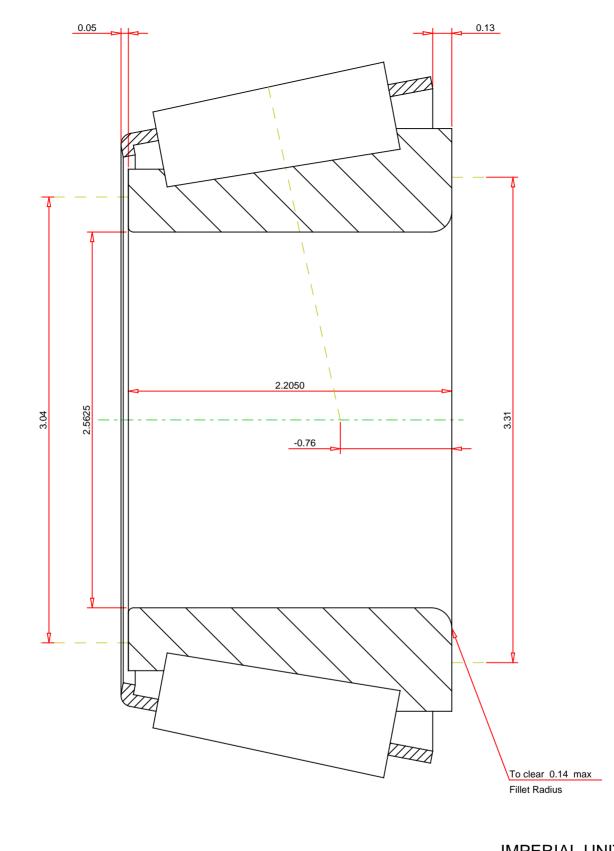
 $<sup>^{5}</sup>$  Based on 90 x 10 $^{6}$  revolutions L<sub>10</sub> life, for The Timken Company life calculation method. C<sub>90</sub> and C<sub>a90</sub> are radial and thrust values.

 $<sup>^6</sup>$  Based on 1 x  $10^6$  revolutions  $\rm L_{10}$  life, for the ISO life calculation method.

 $<sup>^7</sup>$  Based on 90 x  $10^6$  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.

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

<sup>&</sup>lt;sup>9</sup> Geometry constant for Lubrication Life Adjustment Factor a3l.



## **IMPERIAL UNITS**

Number of Rollers Per Row

THE TIMKEN COMPANY NORTH CANTON, OHIO USA

6379 Tapered Roller Bearings - Single Cones - Imperial

K Factor Dynamic Radial Rating - C90 98800 Dynamic Thrust Rating - Ca90 54900 Dynamic Radial Rating - C1 381000

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