

The Timken Company 4500 Mt Pleasant St. NW N. Canton, OH 44720

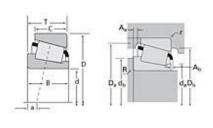
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Timken Part Number 387A - 382A, Tapered Roller Bearings - TS (Tapered Single) Imperial

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.





Specifications | Dimensions | Abutment and Fillet Dimensions | Basic Load Ratings | Factors

Specifications			
	Series	385	
	Cone Part Number	387A	
	Cup Part Number	382A	
	Design Units	Imperial	
	Bearing Weight	1.30 lb 0.600 Kg	
	Cage Type	Stamped Steel	

Dimensions		
d - Bore	2.2500 in 57.150 mm	
D - Cup Outer Diameter	3.8125 in 96.838 mm	

B - Cone Width	0.8640 in 21.946 mm
C - Cup Width	0.6250 in 15.875 mm
T - Bearing Width	0.8268 in 21.001 mm

Abutment and Fillet Dimensions			
R - Cone Backface "To Clear"	0.14 in		
Radius ¹	3.560 mm		
r - Cup Backface "To Clear"	0.030 in		
Radius ²	0.76 mm		
da - Cone Frontface Backing	2.48 in		
Diameter	62.99 mm		
db - Cone Backface Backing	2.76 in		
Diameter	70.10 mm		
Da - Cup Frontface Backing	3.66 in		
Diameter	92.96 mm		
Db - Cup Backface Backing	3.50 in		
Diameter	88.90 mm		
Ab - Cage-Cone Frontface	0.11 in		
Clearance	2.8 mm		
Aa - Cage-Cone Backface	0.03 in		
Clearance	0.8 mm		
a - Effective Center Location ³	-0.12 in -3.00 mm		

Basic Load Ratings				
	Dynamic Radial Rating (90 n revolutions) ⁴	6280 lbf 28000 N		
	ynamic Radial Rating (1 n revolutions) ⁵	24200 lbf 108000 N		
C0 - S	tatic Radial Rating	24100 lbf 107000 N		
	Dynamic Thrust Rating illion revolutions) ⁶	3810 lbf 16900 N		

Factors		
1.65		
0.35		
1.69		
42		
15.7		
0.0859		

¹ These maximum fillet radii will be cleared by the bearing corners.

² These maximum fillet radii will be cleared by the bearing corners.

³ Negative value indicates effective center inside cone backface.

 $^{^4}$ 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.

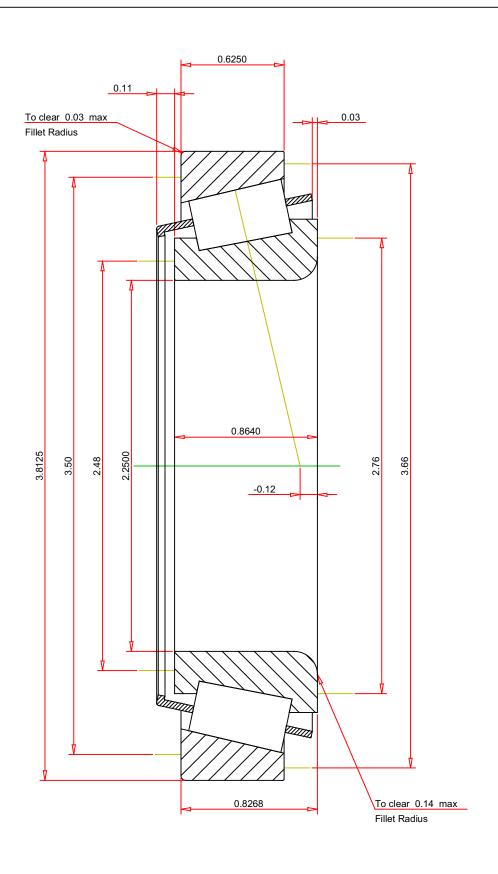
 $^{^{5}}$ Based on 1 x 10^{6} revolutions $L_{1,0}$ life, for the ISO life calculation method.

 $^{^6}$ 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.

⁷ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

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

⁹ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.



IMPERIAL UNITS

ISO Factor - e ISO Factor - Y Bearing Weight Number of Rollers Per Row Effective Center Location		387A - 382A TS BEARING ASSEMBLY			
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA	K Factor Dynamic Radial Rating - C90 Dynamic Thrust Rating - Ca90 Static Radial Rating - C0 Dynamic Radial Rating - C1	1.65 6280 3810 24100 24200	lbf lbf lbf 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