

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

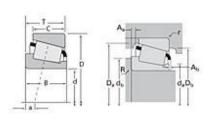
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Timken Part Number LM806649 - LM806610, Tapered Roller Bearings - TS (Tapered Single) Imperial

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

Spe	Specifications			
	Series	LM806600		
	Cone Part Number	LM806649		
	Cup Part Number	LM806610		
	Design Units	Imperial		
	Bearing Weight	0.90 lb 0.400 Kg		
	Cage Type	Stamped Steel		

Dimensions		
d - Bore	2.1250 in 53.975 mm	
D - Cup Outer Diameter	3.5000 in 88.900 mm	

B - Cone Width	0.7500 in 19.050 mm
C - Cup Width	0.5312 in 13.492 mm
T - Bearing Width	0.7500 in 19.050 mm

Abutment and Fillet Dimensions	
R - Cone Backface "To Clear" Radius ¹	0.090 in 2.290 mm
r - Cup Backface "To Clear"	0.080 in
Radius ²	2.03 mm
da - Cone Frontface Backing	2.40 in
Diameter	60.96 mm
db - Cone Backface Backing	2.56 in
Diameter	65.02 mm
Da - Cup Frontface Backing	3.39 in
Diameter	85.10 mm
Db - Cup Backface Backing	3.15 in
Diameter	80.01 mm
Ab - Cage-Cone Frontface	0.09 in
Clearance	2.3 mm
Aa - Cage-Cone Backface	0.04 in
Clearance	1 mm
a - Effective Center Location ³	0.09 in 2.30 mm

Basic Load Ratings			
C90 - Dynamic Radial Rating (90 million revolutions) ⁴	3820 lbf 17000 N		
C1 - Dynamic Radial Rating (1 million revolutions) ⁵	14700 lbf 65500 N		
C0 - Static Radial Rating	18400 lbf 81800 N		
C _{a90} - Dynamic Thrust Rating (90 million revolutions) ⁶	3570 lbf 15900 N		

Factors			

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.

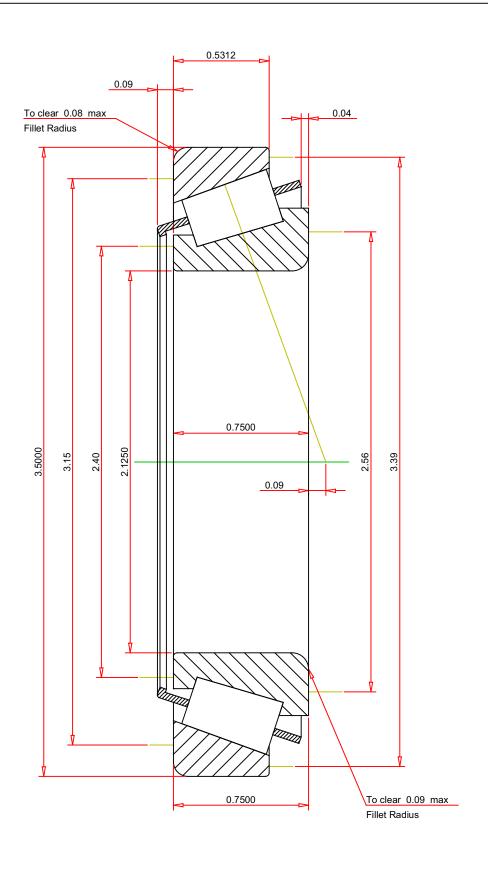
 $^{^{5}}$ Based on 1 x 10^{6} revolutions L_{10} life, for the ISO life calculation method.

 $^{^6}$ 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	0.55 1.1 0.9 lb 22 0.09 inch		LM806649 - LM8066 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	1.07 3820 3570 18400 14700

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

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