

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

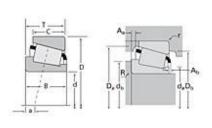
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Timken Part Number L44643 - L44610, Tapered Roller Bearings - TS (Tapered Single) Imperial

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	L44600
	Cone Part Number	L44643
	Cup Part Number	L44610
	Design Units	Imperial
	Bearing Weight	0.30 lb 0.100 Kg
	Cage Type	Stamped Steel

Dimensions			
d - Bore	1.0000 in 25.400 mm		
D - Cup Outer Diameter	1.9800 in 50.292 mm		

B - Cone Width	0.5800 in 14.732 mm
C - Cup Width	0.4200 in 10.668 mm
T - Bearing Width	0.5600 in 14.224 mm

Abutment and Fillet Dimensions		
R - Cone Backface "To Clear"	0.050 in	
Radius ¹	1.270 mm	
r - Cup Backface "To Clear"	0.050 in	
Radius ²	1.27 mm	
da - Cone Frontface Backing	1.18 in	
Diameter	29.97 mm	
db - Cone Backface Backing	1.26 in	
Diameter	32.00 mm	
Da - Cup Frontface Backing	1.87 in	
Diameter	47.50 mm	
Db - Cup Backface Backing	1.75 in	
Diameter	44.45 mm	
Ab - Cage-Cone Frontface	0.05 in	
Clearance	1.3 mm	
Aa - Cage-Cone Backface	0.02 in	
Clearance	0.5 mm	
a - Effective Center Location ³	-0.13 in -3.30 mm	

Ва	sic Load Ratings		_
	C90 - Dynamic Radial Rating (90 million revolutions) ⁴	2080 lbf 9230 N	
	C1 - Dynamic Radial Rating (1 million revolutions) ⁵	8010 lbf 35600 N	
	C0 - Static Radial Rating	7400 lbf 32900 N	
	C _{a90} - Dynamic Thrust Rating (90 million revolutions) ⁶	1330 lbf 5910 N	

Factors		
1.56		
0.37		
1.6		
8.9		
8.93		
0.0526		

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.

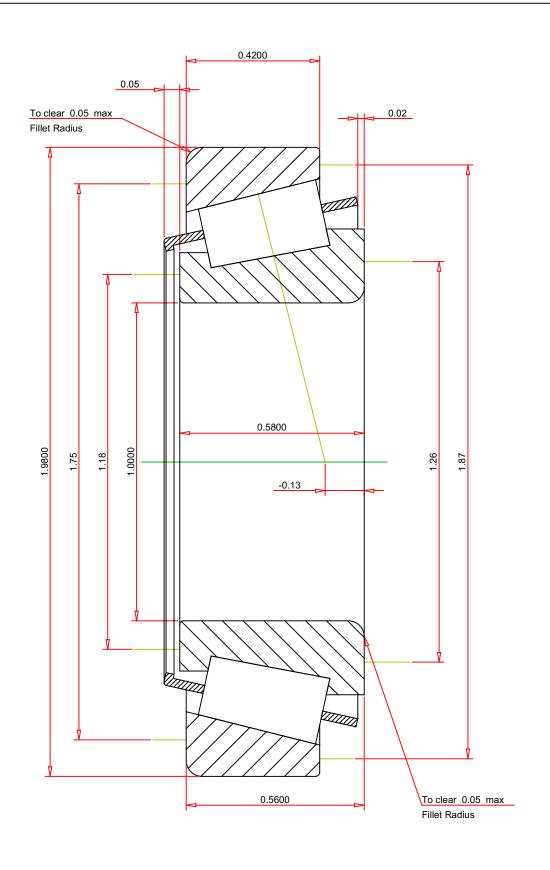
 $^{^{5}}$ Based on 1 x 10^{6} revolutions L_{10} life, for the ISO life calculation method.

 $^{^6}$ 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	0.37 1.6 0.3 lb 19 -0.13 inch	

L44643 - L44610 TS BEARING ASSEMBLY

THE TIMKEN COMPANY NORTH CANTON, OHIO USA

 K Factor
 1.56

 Dynamic Radial Rating - C90
 2080
 lbf

 Dynamic Thrust Rating - Ca90
 1330
 lbf

 Static Radial Rating - C0
 7400
 lbf

 Dynamic Radial Rating - C1
 8010
 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