

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

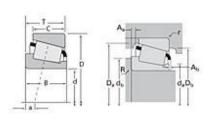
Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • Web site: www.timken.com

Timken Part Number LM11749 - LM11710, 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	LM11700	
	Cone Part Number	LM11749	
	Cup Part Number	LM11710	
	Design Units	Imperial	
	Bearing Weight	0.20 lb 0.100 Kg	
	Cage Type	Stamped Steel	

Dimensions			
	d - Bore	0.6875 in 17.463 mm	
	D - Cup Outer Diameter	1.5700 in 39.878 mm	

B - Cone Width	0.5750 in 14.605 mm
C - Cup Width	0.4200 in 10.668 mm
T - Bearing Width	0.5450 in 13.843 mm

Abutment and Fillet Dimensions			
	R - Cone Backface "To Clear" Radius ¹	0.050 in 1.270 mm	
	r - Cup Backface "To Clear" Radius ²	0.050 in 1.27 mm	
	da - Cone Frontface Backing Diameter	0.87 in 22.10 mm	
	db - Cone Backface Backing Diameter	0.94 in 23.88 mm	
	Da - Cup Frontface Backing Diameter	1.48 in 37.59 mm	
	Db - Cup Backface Backing Diameter	1.34 in 34.04 mm	
	Ab - Cage-Cone Frontface Clearance	0.05 in 1.3 mm	
	Aa - Cage-Cone Backface Clearance	0 in 0 mm	
	a - Effective Center Location ³	-0.20 in -5.10 mm	

Basic Load Ratings			
C90 - Dynamic Radial Ratin million revolutions) ⁴	g (90 1710 lbf 7610 N		
C1 - Dynamic Radial Rating million revolutions) ⁵	(1 6600 lbf 29400 N		
C0 - Static Radial Rating	5260 lbf 23400 N		
C _{a90} - Dynamic Thrust Rati (90 million revolutions) ⁶	ng 838 lbf 3730 N		

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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.

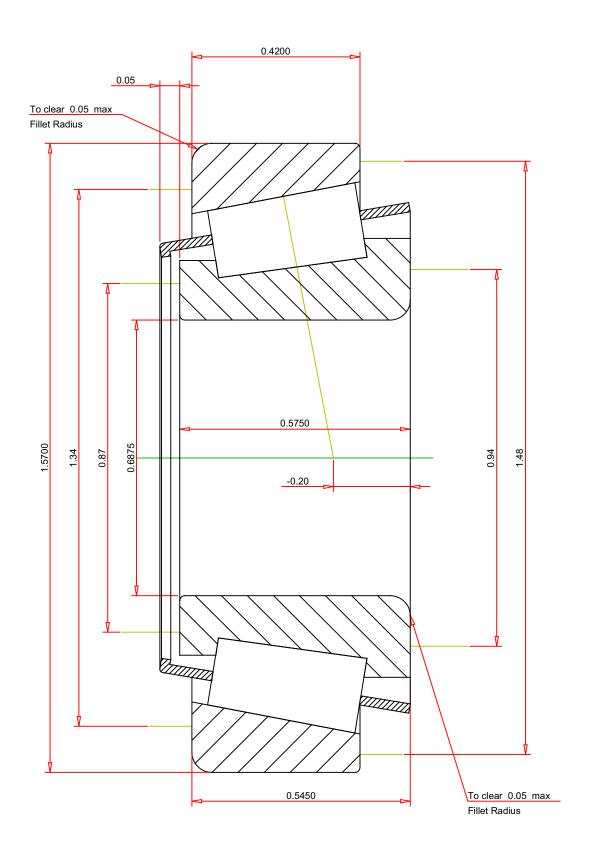
 $^{^{5}}$ Based on 1 x 10^{6} revolutions $L_{1,0}$ life, for the ISO life calculation method.

 $^{^6}$ 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 0.29 ISO Factor - Y 2.1 Bearing Weight 0.2 I Number of Rollers Per Row 14 Effective Center Location -0.2 inc		LM11749 - LM11710 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	2.04 1710 838 5260 6600	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