

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

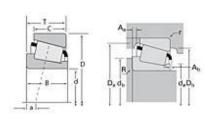
Phone: (234) 262-3000

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

Timken Part Number LM29749 - LM29710, 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	LM29700
	Cone Part Number	LM29749
	Cup Part Number	LM29710
	Design Units	Imperial
	Bearing Weight	0.50 lb 0.200 Kg
	Cage Type	Stamped Steel

Dimensions		
d - Bore	1.5 in 38.1 mm	
D - Cup Outer Diameter	2.5625 in 65.088 mm	

B - Cone Width	0.7200 in 18.288 mm
C - Cup Width	0.5500 in 13.970 mm
T - Bearing Width	0.7100 in 18.034 mm

Abutment and Fillet Dimensions				
R - Cone Backface "To Clear"	0.090 in			
Radius ¹	2.290 mm			
r - Cup Backface "To Clear"	0.050 in			
Radius ²	1.27 mm			
da - Cone Frontface Backing	1.67 in			
Diameter	42.42 mm			
db - Cone Backface Backing	1.83 in			
Diameter	46.48 mm			
Da - Cup Frontface Backing	2.46 in			
Diameter	62.00 mm			
Db - Cup Backface Backing	2.32 in			
Diameter	58.93 mm			
Ab - Cage-Cone Frontface	0.07 in			
Clearance	1.8 mm			
Aa - Cage-Cone Backface	0.01 in			
Clearance	0.3 mm			
a - Effective Center Location ³	-0.16 in -4.10 mm			

Basic Load Ratings		
C90 - Dynamic Radial Rating (90 million revolutions) ⁴	2830 lbf 12600 N	
C1 - Dynamic Radial Rating (1 million revolutions) ⁵	10900 lbf 48600 N	
C0 - Static Radial Rating	13600 lbf 60300 N	
C _{a90} - Dynamic Thrust Rating (90 million revolutions) ⁶	1610 lbf 7170 N	

Factors			
1.76			
0.33			
1.8			
20.4			
15			
0.0666			

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.

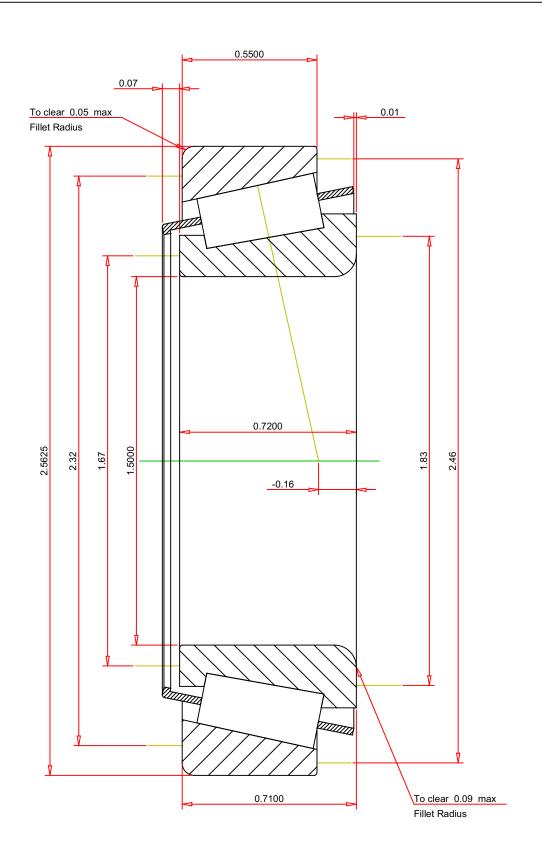
 $^{^{5}}$ Based on 1 x 10^{6} revolutions L_{10} life, for the ISO life calculation method.

 $^{^6}$ 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 - Y 1.8 Bearing Weight 0.5 II Number of Rollers Per Row 21 Effective Center Location -0.16 incl	
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LM29749 - LM29710 TS BEARING ASSEMBLY

THE TIMKEN COMPANY NORTH CANTON, OHIO USA

 K Factor
 1.76

 Dynamic Radial Rating - C90
 2830
 lbf

 Dynamic Thrust Rating - Ca90
 1610
 lbf

 Static Radial Rating - C0
 13600
 lbf

 Dynamic Radial Rating - C1
 10900
 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