

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

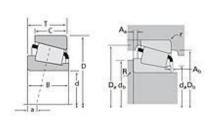
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Timken Part Number 11162 - 11300, Tapered Roller Bearings - TS (Tapered Single) Imperial

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	11000	
Cone Part Number	11162	
Cup Part Number	11300	
Design Units	Imperial	
Bearing Weight	0.70 lb 0.300 Kg	
Cage Type	Stamped Steel	

Dimensions		
d - Bore	1.6250 in 41.275 mm	
D - Cup Outer Diameter	3 in 76.2 mm	

B - Cone Width	0.6844 in 17.384 mm
C - Cup Width	0.5625 in 14.288 mm
T - Bearing Width	0.7090 in 18.009 mm

Abutment and Fillet Dimensions			
R - Cone Backface "To Clear" Radius ¹	0.060 in 1.520 mm		
r - Cup Backface "To Clear"	0.060 in		
Radius ²	1.52 mm		
da - Cone Frontface Backing	1.83 in		
Diameter	46.48 mm		
db - Cone Backface Backing	1.93 in		
Diameter	49.02 mm		
Da - Cup Frontface Backing	2.83 in		
Diameter	71.88 mm		
Db - Cup Backface Backing	2.64 in		
Diameter	67.06 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	-0.03 in -0.80 mm		

Ba	sic Load Ratings		
	C90 - Dynamic Radial Rating (90 million revolutions) ⁴	2800 lbf 12500 N	
	C1 - Dynamic Radial Rating (1 million revolutions) ⁵	10800 lbf 48100 N	
	C0 - Static Radial Rating	12400 lbf 55100 N	
	C _{a90} - Dynamic Thrust Rating (90 million revolutions) ⁶	2340 lbf 10400 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.

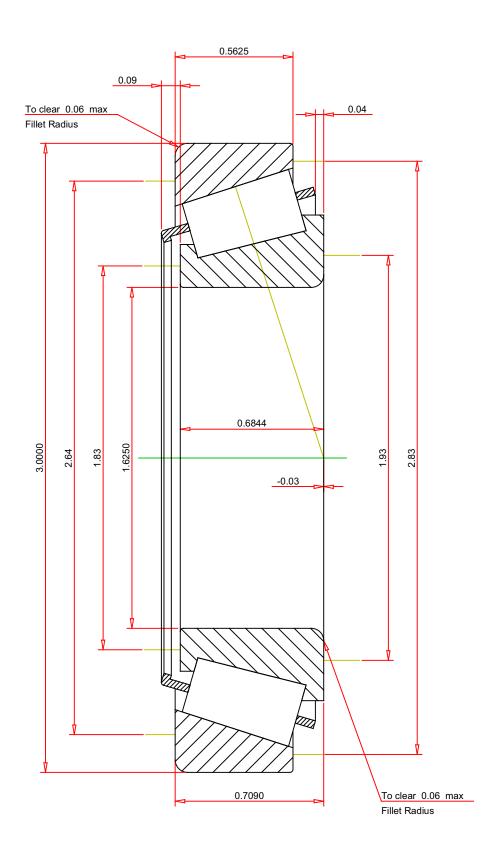
 $^{^{5}}$ Based on 1 x 10^{6} revolutions $L_{1,0}$ life, for the ISO life calculation method.

 $^{^6}$ 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	0.49 1.23 0.7 lb 19 -0.03 inch		11162 - 11300 TS BEARING ASSEMBLY		
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA	3	1.2 2800 2340 12400 10800	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