

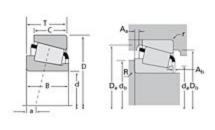
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Timken Part Number 67391 - 67322, Tapered Roller Bearings - TS (Tapered Single) Imperial

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.





<u>Specifications</u> | <u>Dimensions</u> | <u>Abutment and Fillet Dimensions</u> | <u>Basic Load Ratings</u> | <u>Factors</u>

Sp	Specifications -			
	Series	67300		
	Cone Part Number	67391		
	Cup Part Number	67322		
	Design Units	Imperial		
	Bearing Weight	4.500 Kg 10.00 lb		
	Cage Type	Stamped Steel		

Dimensions			
d - Bore	133.350 mm 5.2500 in		
D - Cup Outer Diame	196.850 mm 7.7500 in		

B - Cone Width	46.038 mm 1.8125 in
C - Cup Width	38.100 mm 1.5000 in
T - Bearing Width	46.038 mm 1.8125 in

Abutment and Fillet Dimensions					
	R - Cone Backface "To Clear" Radius ¹	7.870 mm 0.310 in			
	r - Cup Backface "To Clear" Radius ²	3.30 mm 0.130 in			
	da - Cone Frontface Backing Diameter	143.00 mm 6.57 in			
	db - Cone Backface Backing Diameter	156.97 mm 6.18 in			
	Da - Cup Frontface Backing Diameter	189.99 mm 7.48 in			
	Db - Cup Backface Backing Diameter	180.09 mm 7.09 in			
	Ab - Cage-Cone Frontface Clearance	2.3 mm 0.09 in			
	Aa - Cage-Cone Backface Clearance	3.3 mm 0.13 in			
	a - Effective Center Location ³	-6.40 mm -0.25 in			

Ва	sic Load Ratings		-
	C90 - Dynamic Radial Rating (90 million revolutions) ⁴	95300 N 21400 lbf	
	C1 - Dynamic Radial Rating (1 million revolutions) ⁵	368000 N 82600 lbf	
	CO - Static Radial Rating	625000 N 141000 lbf	
	C _{a90} - Dynamic Thrust Rating (90 million revolutions) ⁶	56100 N 12600 lbf	

Factors -			
K - Factor ⁷	1.7		
e - ISO Factor ⁸	0.34		
Y - ISO Factor ⁹	1.74		
G1 - Heat Generation Factor (Roller-Raceway)	384		
G2 - Heat Generation Factor (Rib-Roller End)	70.1		
Cg - Geometry Factor	0.122		

 $^{^{\}mathrm{1}}$ 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.

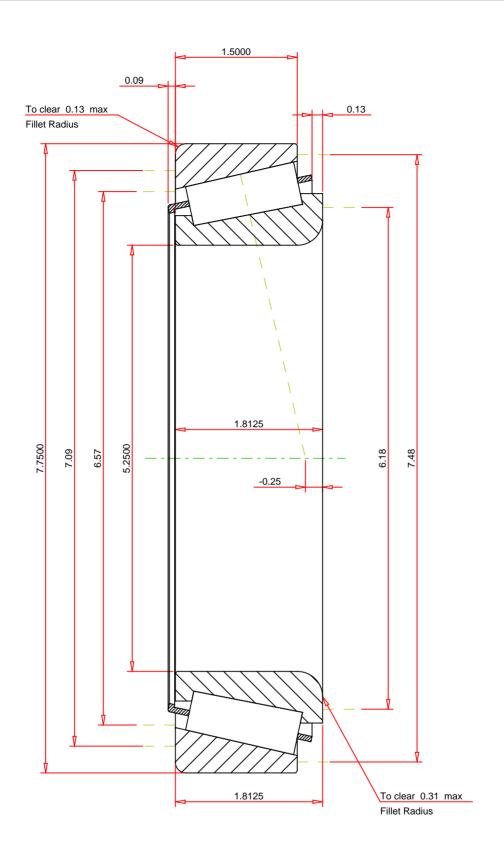
 $^{^{5}}$ Based on 1 x 10^{6} revolutions L $_{10}$ life, for the ISO life calculation method.

 $^{^6}$ 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	0.34 1.74 10 lb 29 -0.25 inch	~	67391 - 67322 TS BEARING ASSEMBLY		
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA	3	1.7 95300 56100 625000 368000	lbf lbf lbf lbf
Every reasonable effort has been m	ade to ensure the	accuracy of the information contained in this writing, but no	EOD DICCHOOLONI ONII V		

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