

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

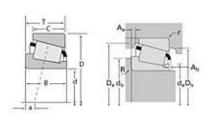
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## Timken Part Number JL819349 - JL819310, Tapered Roller Bearings - TS (Tapered Single) Metric

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	L819300	
	Cone Part Number	JL819349	
	Cup Part Number	JL819310	
	Design Units	Metric	
	Bearing Weight	0.900 Kg 1.90 lb	
	Cage Type	Stamped Steel	

Dimensions		
d - Bore	95.000 mm 3.7402 in	
D - Cup Outer Diameter	135.000 mm 5.3150 in	

B - Cone Width	20.000 mm 0.7874 in
C - Cup Width	14.000 mm 0.5512 in
T - Bearing Width	20.000 mm 0.7874 in

5.080 mm 0.200 in
2.54 mm 0.100 in
102.11 mm 4.02 in
111.00 mm 4.37 in
130.00 mm 5.12 in
122.94 mm 4.84 in
2 mm 0.08 in
2 mm 0.08 in
10.90 mm 0.43 in

Bas	Basic Load Ratings			
	C90 - Dynamic Radial Rating (90 million revolutions) <sup>4</sup>	25500 N 5740 lbf		
	C1 - Dynamic Radial Rating (1 million revolutions) <sup>5</sup>	98400 N 22100 lbf		
	CO - Static Radial Rating	133000 N 29900 lbf		
	C <sub>a90</sub> - Dynamic Thrust Rating (90 million revolutions) <sup>6</sup>	25500 N 5730 lbf		

1
0.58
1.03
93.3
70.5
0.13

<sup>&</sup>lt;sup>1</sup> These maximum fillet radii will be cleared by the bearing corners.

<sup>&</sup>lt;sup>2</sup> These maximum fillet radii will be cleared by the bearing corners.

<sup>&</sup>lt;sup>3</sup> Negative value indicates effective center inside cone backface.

 $<sup>^4</sup>$  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.

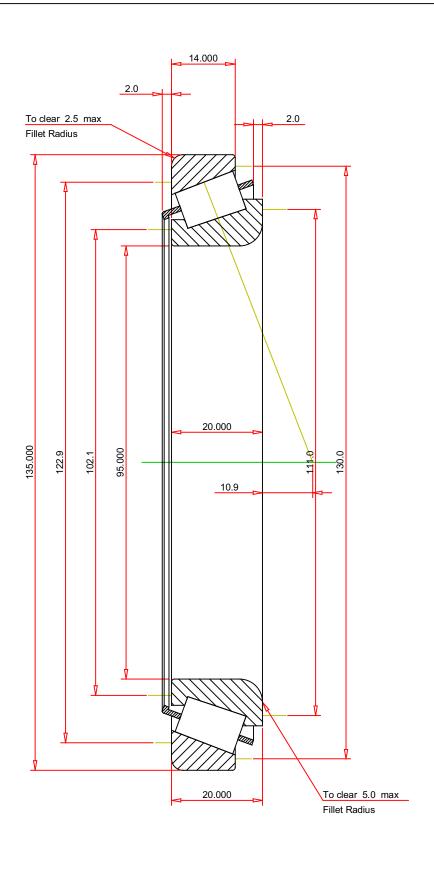
 $<sup>^{5}</sup>$  Based on 1 x  $10^{6}$  revolutions  $L_{10}$  life, for the ISO life calculation method.

 $<sup>^6</sup>$  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.

<sup>&</sup>lt;sup>7</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>&</sup>lt;sup>8</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

<sup>&</sup>lt;sup>9</sup> These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.



## **METRIC UNITS**

Bearing Weight 0 Number of Rollers Per Row 3	1.03 0.9 kg 35 10.9 mm		JL819349 - JL819310 TS BEARING ASSEMBLY		
		THE TIMKEN COMPANY NORTH CANTON, OHIO USA	K Factor Dynamic Radial Rating - C90 255 Dynamic Thrust Rating - Ca90 255 Static Radial Rating - C0 1330 Dynamic Radial Rating - C1 984	500 000	N N N

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.

0.58

ISO Factor - e

FOR DISCUSSION ONLY