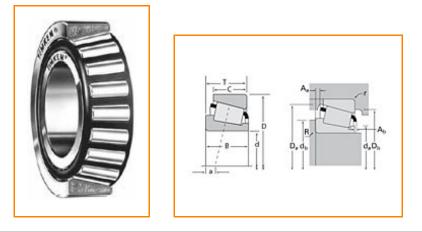


Timken Part Number L44649 - L44610, Tapered Roller Bearings - TS (Tapered Single)

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	pecifications –			
	Series	L44600		
	Cone Part Number	L44649		
	Cup Part Number	L44610		
	Design Units	Imperial		
	Bearing Weight	0.100 Kg 0.30 lb		
	Cage Type	Stamped Steel		

Dimensions

d - Bore	26.988 mm 1.0625 in
D - Cup Outer Diameter	50.292 mm 1.9800 in
B - Cone Width	14.732 mm 0.5800 in
C - Cup Width	10.668 mm 0.4200 in
T - Bearing Width	14.224 mm 0.5600 in

Abutment and Fillet Dimensions

3.560 mm 0.14 in
1.27 mm 0.050 in
30.99 mm 1.22 in
37.59 mm 1.48 in
47.50 mm 1.87 in
44.45 mm 1.75 in
1.3 mm 0.05 in
0.5 mm 0.02 in
-3.3 mm -0.13 in

C90 - Dynamic Radial Rating	9230 N
(90 million revolutions) ⁴	2080 lbf
C1 - Dynamic Radial Rating (1	35600 N
million revolutions) ⁵	8010 lbf
C0 - Static Radial Rating	32900 N 7400 lbf
C _{a90} - Dynamic Thrust Rating	5910 N
(90 million revolutions) ⁶	1330 lbf

Factors

K - Factor ⁷	1.56
e - ISO Factor ⁸	0.37
Y - ISO Factor ⁹	1.60
G1 - Heat Generation Factor (Roller-Raceway)	8.9
G2 - Heat Generation Factor (Rib-Roller End)	8.93
Cg - Geometry Factor	0.0526

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 10⁶ revolutions L_{10} life, for the ISO life calculation method.

⁶ Based on 90 x 10⁶ 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.

