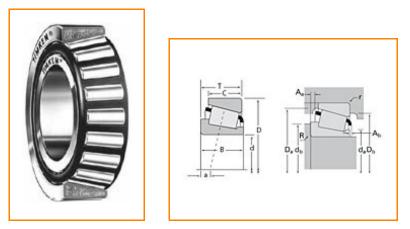


Timken Part Number 342A - 332, Tapered Roller Bearings - TS (Tapered Single) Imperial

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	335	
	Cone Part Number	342A	
	Cup Part Number	332	
	Design Units	Imperial	
	Bearing Weight	0.500 Kg 1.20 lb	
	Cage Type	Stamped Steel	
Dim	nensions	-	

d - Bore 41.275 mm 1.6250 in	
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D - Cup Outer Diameter	80 mm 3.1496 in
B - Cone Width	29.977 mm 1.1802 in
C - Cup Width	17.826 mm 0.7018 in
T - Bearing Width	28.572 mm 1.1249 in

Abutment and Fillet Dimensions

R - Cone Backface "To Clear"	3.560 mm
Radius ¹	0.14 in
r - Cup Backface "To Clear"	1.27 mm
Radius ²	0.050 in
da - Cone Frontface Backing	46.48 mm
Diameter	1.83 in
db - Cone Backface Backing	53.09 mm
Diameter	2.09 in
Da - Cup Frontface Backing	75.90 mm
Diameter	2.99 in
Db - Cup Backface Backing	72.90 mm
Diameter	2.87 in
Ab - Cage-Cone Frontface	1.8 mm
Clearance	0.07 in
Aa - Cage-Cone Backface	7.6 mm
Clearance	0.3 in
a - Effective Center Location ³	-13.70 mm -0.54 in

C90 - Dynamic Radial Rating (90 million revolutions) ⁴	24400 N 5490 lbf
C1 - Dynamic Radial Rating (1	94300 N
million revolutions) ⁵	21200 lbf
C0 - Static Radial Rating	83400 N 18700 lbf
C _{a90} - Dynamic Thrust Rating	11400 N
(90 million revolutions) ⁶	2570 lbf

Factors

K - Factor ⁷	2.14
e - ISO Factor ⁸	0.27
Y - ISO Factor ⁹	2.2
G1 - Heat Generation Factor (Roller-Raceway)	26.5
G2 - Heat Generation Factor (Rib-Roller End)	13
Cg - Geometry Factor	0.0676

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 10⁶ 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 L₁₀ 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.

