The Timken Company
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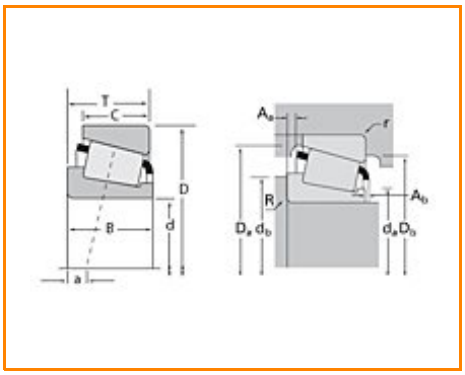
Timken Part Number 44126 - 44348, Tapered Roller Bearings - TS (Tapered Single) Imperial

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.



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Specifications

Series	44000
Cone Part Number	44126
Cup Part Number	44348
Design Units	Imperial
Bearing Weight	0.800 Kg 1.70 lb
Cage Type	Stamped Steel

Dimensions

d - Bore	31.750 mm 1.2500 in

D - Cup Outer Diameter	88.501 mm 3.4843 in
B - Cone Width	23.698 mm 0.9330 in
C - Cup Width	17.463 mm 0.6875 in
T - Bearing Width	25.400 mm 1.0000 in

Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius[1]	1.520 mm 0.06 in
r - Cup Backface "To Clear" Radius[2]	1.52 mm 0.06 in
da - Cone Frontface Backing Diameter	46.48 mm 1.83 in
db - Cone Backface Backing Diameter	49.02 mm 1.93 in
Da - Cup Frontface Backing Diameter	84.10 mm 3.34 in
Db - Cup Backface Backing Diameter	74.93 mm 2.95 in
Ab - Cage-Cone Frontface Clearance	3.8 mm 0.15 in
Aa - Cage-Cone Backface Clearance	3 mm 0.12 in
a - Effective Center Location[3]	2.3 mm 0.09 in

Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions)[4]	21800 N 4910 lbf
C1 - Dynamic Radial Rating (1 million revolutions)[5]	84200 N 18900 lbf
C0 - Static Radial Rating	88600 N 19900 lbf
C_{a90} - Dynamic Thrust Rating (90 million revolutions)[6]	29200 N 6560 lbf

Factors

K - Factor[7]	0.75
e - ISO Factor[8]	0.78
Y - ISO Factor[9]	0.77
G1 - Heat Generation Factor (Roller-Raceway)	22.9
G2 - Heat Generation Factor (Rib-Roller End)	8.7
Cg - Geometry Factor	0.0899

[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.
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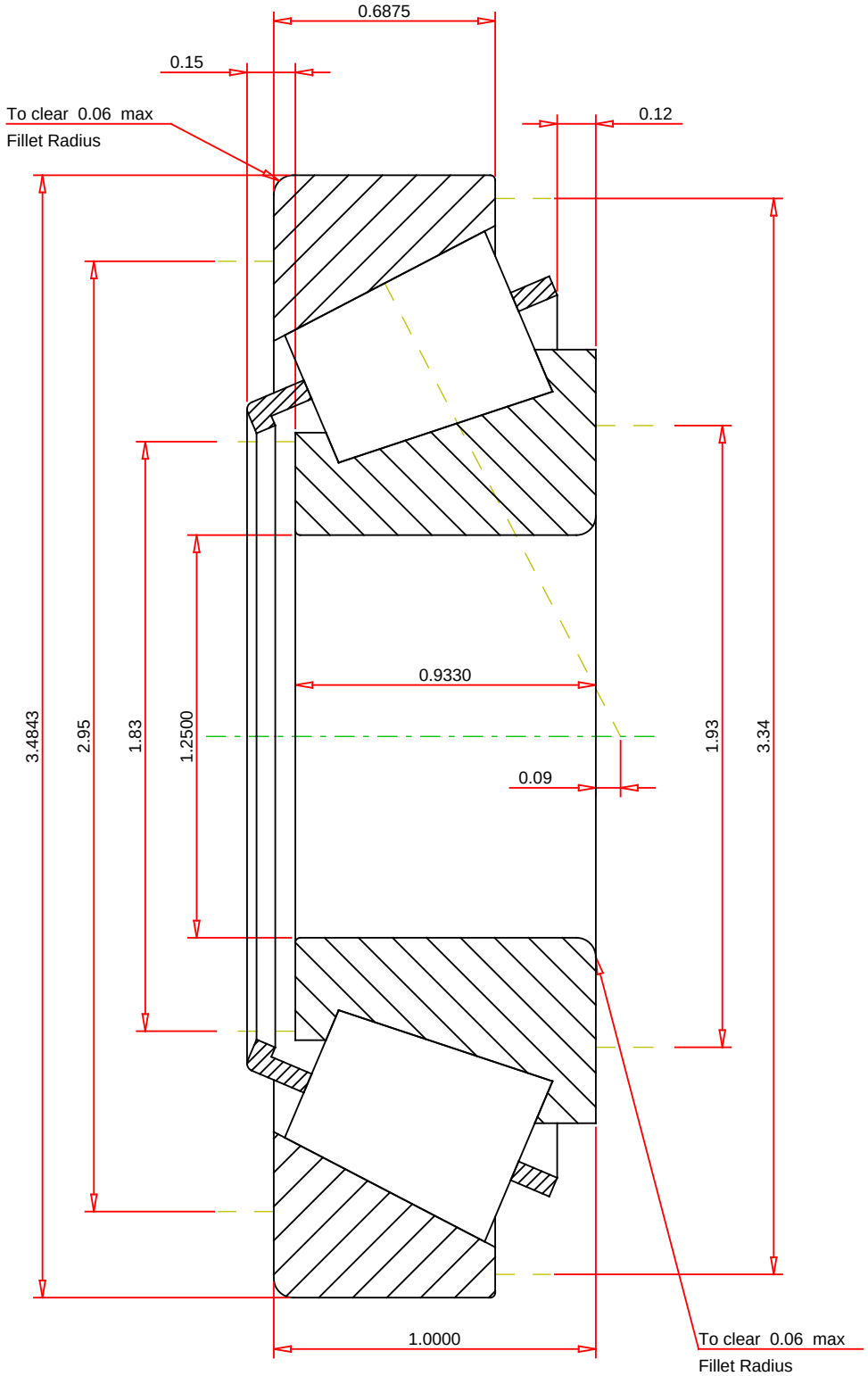

IMPERIAL UNITS

ISO Factor - e	0.78	
ISO Factor - Y	0.77	
Bearing Weight	1.7	lb
Number of Rollers Per Row	15	
Effective Center Location	0.09	inch

TIMKEN

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

44126 - 44348
TS BEARING ASSEMBLY

K Factor	0.75	
Dynamic Radial Rating - C90	21800	lbf
Dynamic Thrust Rating - Ca90	29200	lbf
Static Radial Rating - C0	88600	lbf
Dynamic Radial Rating - C1	84200	lbf

FOR DISCUSSION ONLY