The Timken Company
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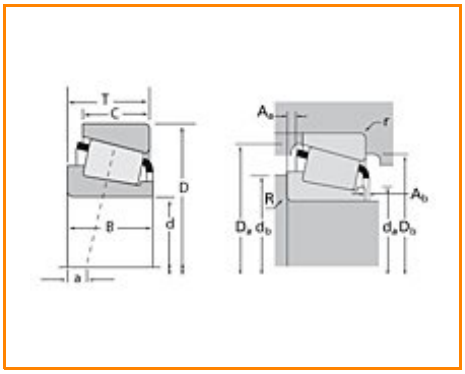
Timken Part Number HM926740V - HM926710, Tapered Roller Bearings - TS (Tapered Single) Imperial

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	HM926700
Cone Part Number	HM926740V
Cup Part Number	HM926710
Design Units	Imperial
Bearing Weight	9.500 Kg 21.000 lb
Cage Type	Stamped Steel

Dimensions

d - Bore	114.300 mm 4.5000 in
D - Cup Outer Diameter	228.600 mm 9.0000 in
B - Cone Width	49.428 mm 1.9460 in
C - Cup Width	38.100 mm 1.5000 in
T - Bearing Width	53.975 mm 2.1250 in

Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius[1]	3.560 mm 0.14 in
r - Cup Backface "To Clear" Radius[2]	3.30 mm 0.130 in
da - Cone Frontface Backing Diameter	141.99 mm 6.54 in
db - Cone Backface Backing Diameter	146.05 mm 5.75 in
Da - Cup Frontface Backing Diameter	219.50 mm 8.64 in
Db - Cup Backface Backing Diameter	199.90 mm 7.87 in
Ab - Cage-Cone Frontface Clearance	7.4 mm 0.29 in
Aa - Cage-Cone Backface Clearance	7.9 mm 0.31 in
a - Effective Center Location[3]	13.50 mm 0.53 in

Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions)[4]	152000 N 34200 lbf
C1 - Dynamic Radial Rating (1 million revolutions)[5]	586000 N 132000 lbf
C0 - Static Radial Rating	673000 N 151000 lbf
C_{a90} - Dynamic Thrust Rating (90 million revolutions)[6]	192000 N 43100 lbf

Factors

K - Factor[7]	0.79
e - ISO Factor[8]	0.74
Y - ISO Factor[9]	0.81
G1 - Heat Generation Factor (Roller-Raceway)	295.4
G2 - Heat Generation Factor (Rib-Roller End)	39
Cg - Geometry Factor	0.142

[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

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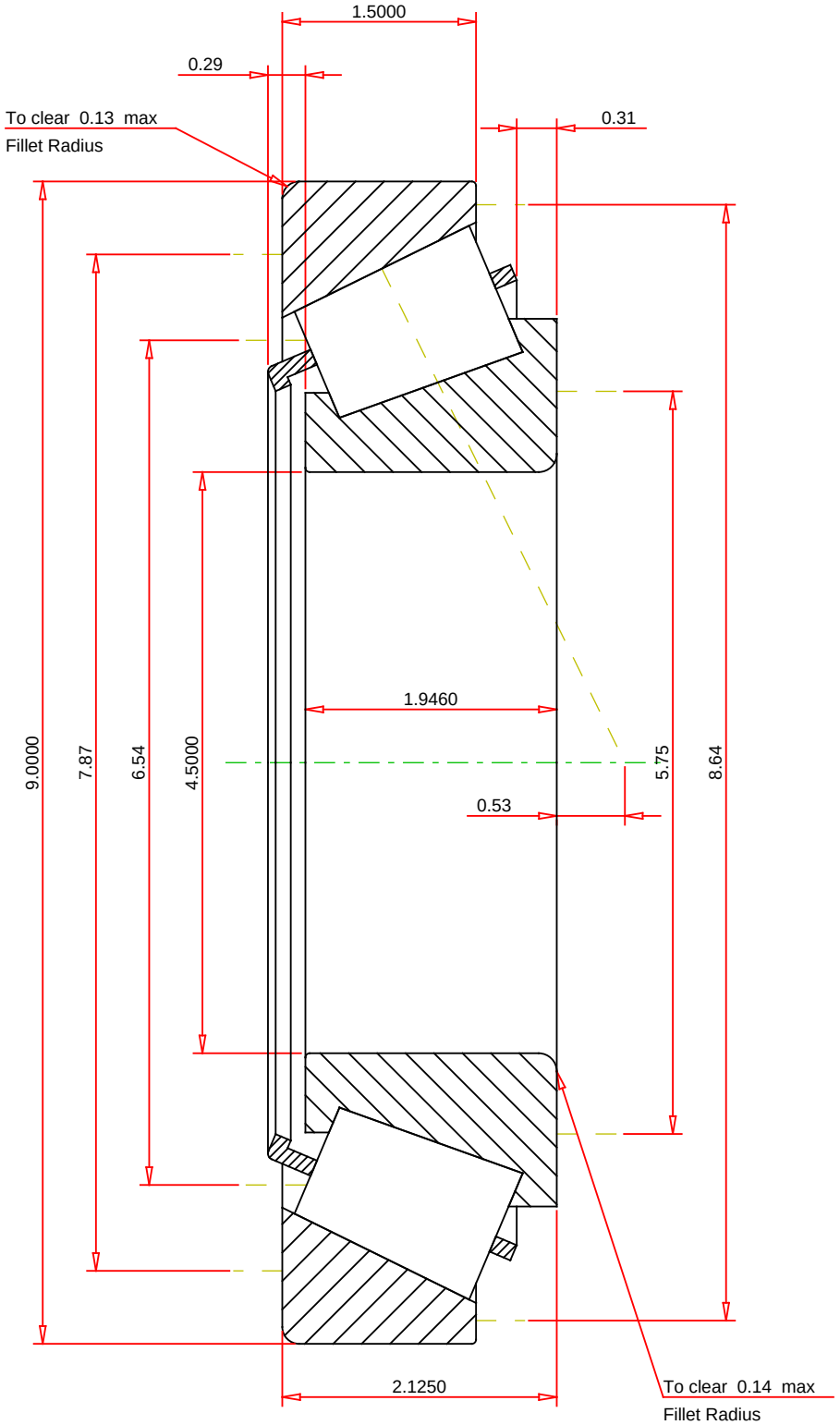
[9] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.



IMPERIAL UNITS

ISO Factor - e	0.74	
ISO Factor - Y	0.81	
Bearing Weight	21	lb
Number of Rollers Per Row	20	
Effective Center Location	0.53	inch

TIMKEN

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

HM926740V - HM926710
TS BEARING ASSEMBLY

K Factor	0.79	
Dynamic Radial Rating - C90	152000	lbf
Dynamic Thrust Rating - Ca90	192000	lbf
Static Radial Rating - C0	673000	lbf
Dynamic Radial Rating - C1	586000	lbf

FOR DISCUSSION ONLY