The Timken Company
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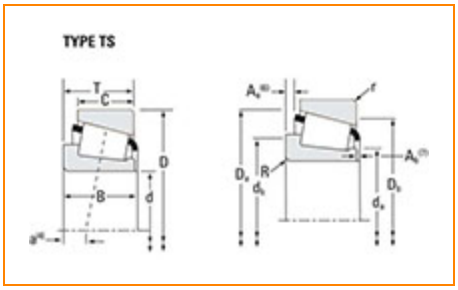
Part Number LM328448 - LM328410, Tapered Roller Bearings - TS (Tapered Single) Imperial

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	LM328400
Cone Part Number	LM328448
Cup Part Number	LM328410
Design Unit	Inch
Cage Material	Stamped Steel

Dimensions

d - Bore	5 1/2 in 139.700 mm
- Cup Outer Diameter	7.3750 in 187.325 mm

B - Cone Width	1.1563 in 29.370 mm
C - Cup Width	0.9063 in 23.020 mm
T - Bearing Width	1.1250 in 28.575 mm

Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius[1]	0.06 in 1.520 mm
r - Cup Backface "To Clear" Radius[2]	0.06 in 1.52 mm
da - Cone Frontface Backing Diameter	5.79 in 147 mm
db - Cone Backface Backing Diameter	5.87 in 149 mm
Da - Cup Frontface Backing Diameter	7.20 in 182.88 mm
Db - Cup Backface Backing Diameter	6.93 in 176.02 mm
Ab - Cage-Cone Frontface Clearance	0.1 in 2.5 mm
Aa - Cage-Cone Backface Clearance	0.04 in 1 mm
a - Effective Center Location[3]	0.14 in 3.6 mm

Basic Load Ratings

C90 - Dynamic Radial Rating (90	13200 lbf

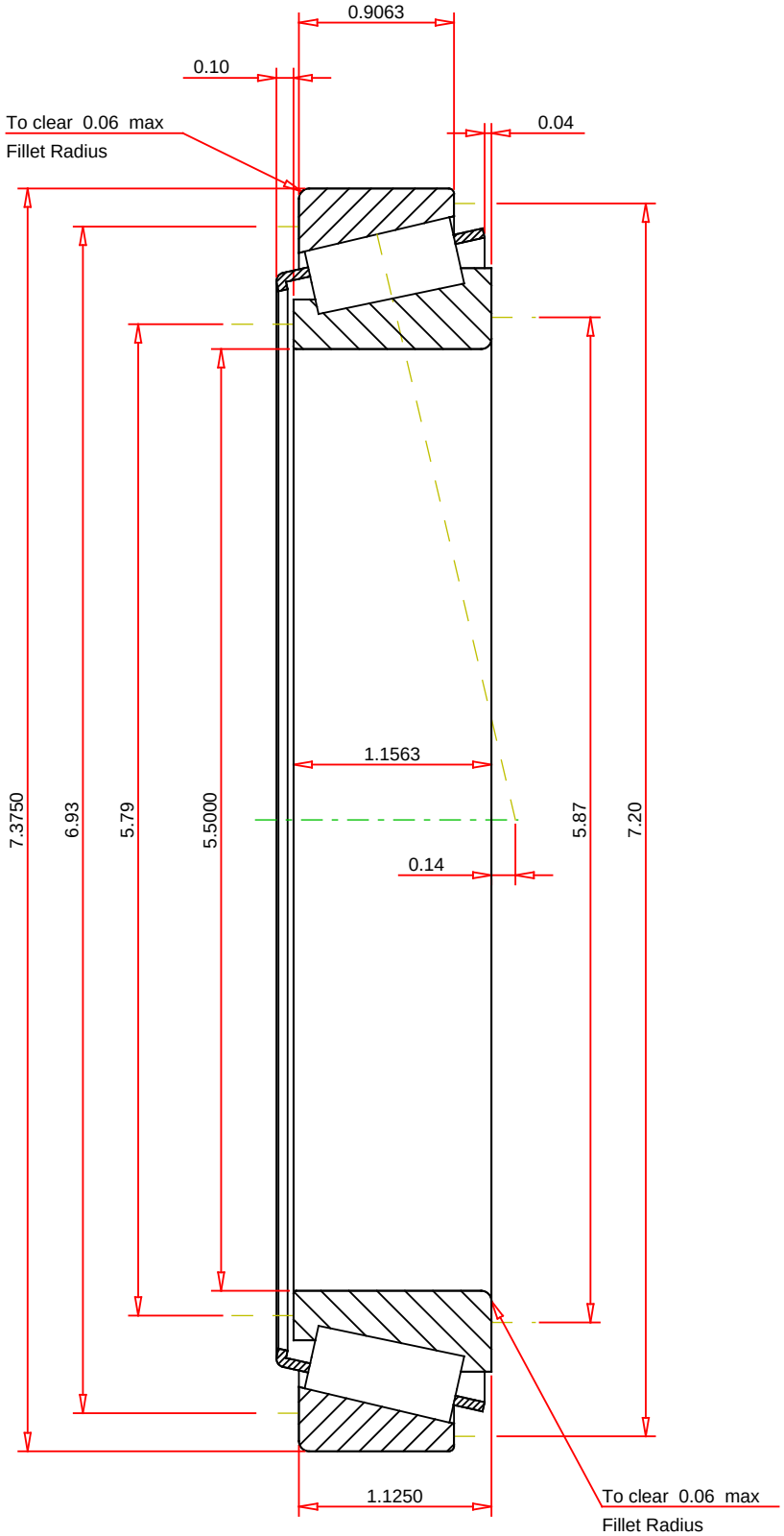
million revolutions)[4]	58800 N
C1 - Dynamic Radial Rating (1 million revolutions)[5]	51000 lbf 227000 N
C0 - Static Radial Rating	84300 lbf 375000 N
C_{a90} - Dynamic Thrust Rating (90 million revolutions)[6]	8030 lbf 35700 N

Factors

K - Factor[7]	1.65
e - ISO Factor[8]	0.36
Y - ISO Factor[9]	1.69
G1 - Heat Generation Factor (Roller-Raceway)	336.5
G2 - Heat Generation Factor (Rib-Roller End)	179.4
Cg - Geometry Factor[10]	0.17

[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 90×10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values.
[5] Based on 1×10^6 revolutions L_{10} life, for the ISO life calculation method.
[6] Based on 90×10^6 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 on use.
[9] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[10] Geometry constant for Lubrication Life Adjustment Factor a3l.



IMPERIAL UNITS

ISO Factor - e	0.36	
ISO Factor - Y	1.69	
Bearing Weight	4.8	lb
Number of Rollers Per Row	41	
Effective Center Location	0.14	inch

TIMKEN

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

LM328448 - LM328410

Tapered Roller Bearings - TS (Tapered Single)
Imperial

K Factor	1.65	
Dynamic Radial Rating - C90	13200	lbf
Dynamic Thrust Rating - Ca90	8030	lbf
Static Radial Rating - C0	84300	lbf
Dynamic Radial Rating - C1	51000	lbf

FOR DISCUSSION ONLY