


The Timken Company

4500 Mt Pleasant St. NW

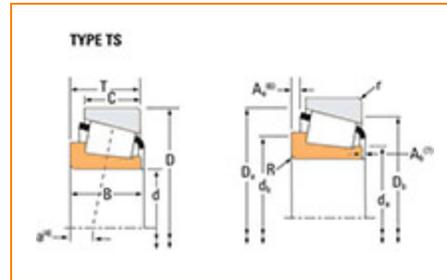
N. Canton, OH 44720

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Part Number 368-S, Tapered Roller Bearings - Single Cones - 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	365
Cone Part Number	368-S
Design Units	Imperial
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions)¹	39900 lbf 177000 N
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions)²	10300 lbf 46000 N



isions

d - Cone Bore	2.0312 in 51.592 mm
B - Cone Width	0.8750 in 22.225 mm

Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius³	0.08 in 2 mm
da - Cone Frontface Backing Diameter	2.2 in 56 mm
db - Cone Backface Backing Diameter	2.32 in 59 mm
Ab - Cage-Cone Frontface Clearance	0.07 in 1.8 mm
Aa - Cage-Cone Backface Clearance	0 in 0 mm
a - Effective Center Location⁴	-0.17 in -4.3 mm

Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions)⁵	5930 lbf 26400 N
C1 - Dynamic Radial Rating (1 million revolutions)⁶	22900 lbf 102000 N
C0 - Static Radial Rating	21500 lbf 95800 N
C_{a90} - Dynamic Thrust Rating (90 million revolutions)⁷	3250 lbf 14400 N

Factors

K - Factor⁸	1.83
G1 - Heat Generation Factor (Roller-Raceway)	33.8
G2 - Heat Generation Factor (Rib-Roller End)	14
Cg - Geometry Factor⁹	0.0773

¹ Based on 1×10^6 revolutions L_{10} life, for the ISO life calculation method.

² 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.

³ These maximum fillet radii will be cleared by the bearing corners.

⁴ Negative value indicates effective center inside cone backface.

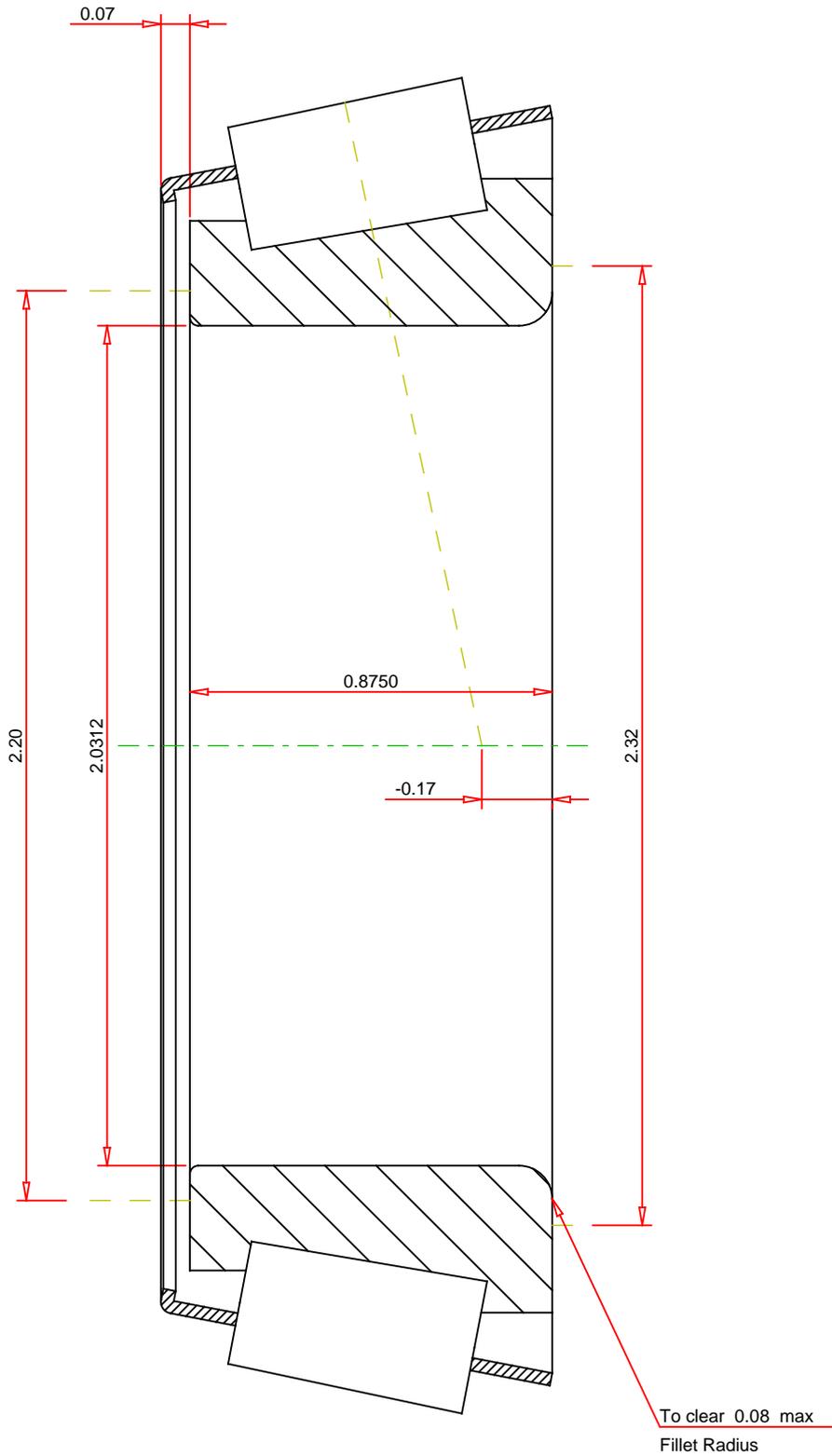
⁵ Based on 90×10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values.

⁶ Based on 1×10^6 revolutions L_{10} life, for the ISO life calculation method.

⁷ 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.

⁸ These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

⁹ Geometry constant for Lubrication Life Adjustment Factor a3l.



IMPERIAL UNITS

Number of Rollers Per Row 17

TIMKEN®

THE TIMKEN COMPANY
NORTH CANTON, OHIO USA

368-S
Tapered Roller Bearings - Single Cones - Imperial

K Factor	1.83
Dynamic Radial Rating - C90	5930 lbf
Dynamic Thrust Rating - Ca90	3250 lbf
Dynamic Radial Rating - C1	22900 lbf

Every reasonable effort has been made to ensure the accuracy of the information contained in this writing, but no liability is accepted for errors, omissions or for any other reason.

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