


The Timken Company

4500 Mt Pleasant St. NW

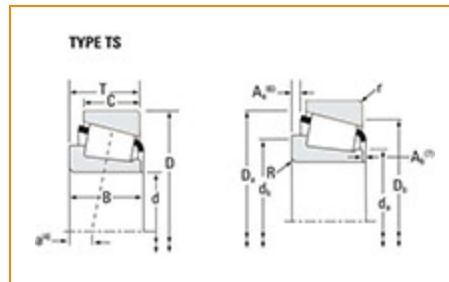
N. Canton, OH 44720

Phone: (234) 262-3000

E-Mail: CustomerCAD@timken.com • **Web site:** www.timken.com

Part Number 26883 - 26822, 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	26800
Cone Part Number	26883
Cup Part Number	26822
Design Unit	Inch
Bearing Weight	0.6 Kg
Cage Material	Stamped Steel

Dimensions



d - Bore 35.001 mm

D - Cup Outer Diameter 79.375 mm

B - Cone Width	25.400 mm
C - Cup Width	19.050 mm
T - Bearing Width	23.813 mm

Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius¹	0.8 mm
r - Cup Backface "To Clear" Radius²	0.76 mm
da - Cone Frontface Backing Diameter	42 mm
db - Cone Backface Backing Diameter	42.5 mm
Da - Cup Frontface Backing Diameter	74.68 mm
Db - Cup Backface Backing Diameter	71.12 mm
Ab - Cage-Cone Frontface Clearance	1.8 mm
Aa - Cage-Cone Backface Clearance	1 mm
a - Effective Center Location³	-7.4 mm

Basic Load Ratings

C90 - Dynamic Radial Rating (90 million revolutions)⁴	23600 N
C1 - Dynamic Radial Rating (1 million revolutions)⁵	91100 N

C₀ - Static Radial Rating 110000 N

C_{a90} - Dynamic Thrust Rating (90 million revolutions)⁶ 12900 N

Factors

K - Factor⁷ 1.83

e - ISO Factor⁸ 0.32

Y - ISO Factor⁹ 1.88

C_g - Geometry Factor¹⁰ 0.077

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.

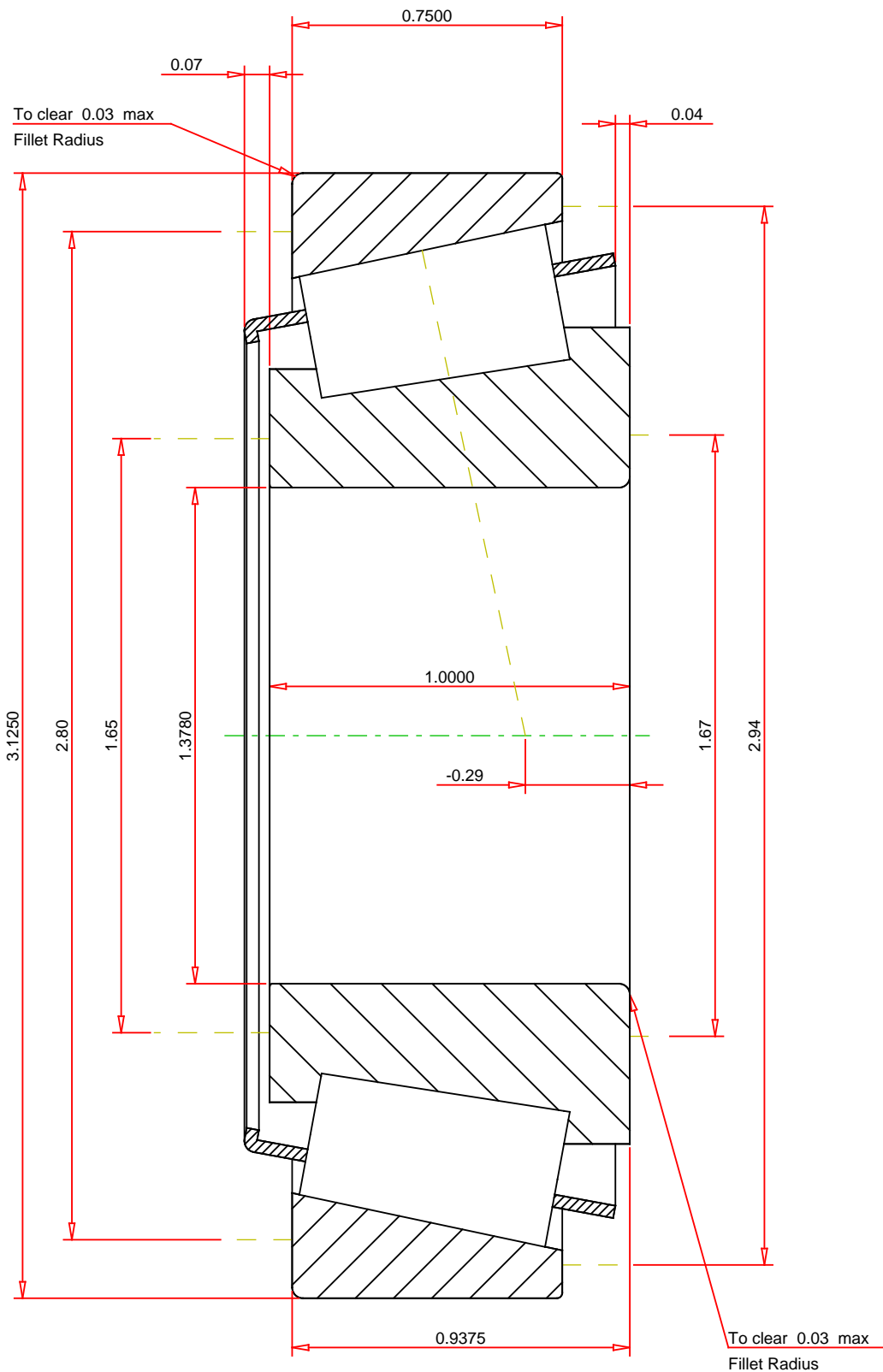
⁶ Based on 90×10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values for a single-row, $C_{90(2)}$ is the two-row radial value.

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

<div>ISO Factor - e0.32</div> <div>ISO Factor - Y1.88</div> <div>Bearing Weight1.3 lb</div> <div>Number of Rollers Per Row18</div> <div>Effective Center Location-0.29 inch</div>		<div>TIMIKEN®</div> <div>THE TIMKEN COMPANY</div> <div>NORTH CANTON, OHIO USA</div>		<div>26883 - 26822</div> <div>Tapered Roller Bearings - TS (Tapered Single)</div> <div>Imperial</div>	
				<div>K Factor1.83</div> <div>Dynamic Radial Rating - C905310 lbf</div> <div>Dynamic Thrust Rating - Ca902900 lbf</div> <div>Static Radial Rating - C024800 lbf</div> <div>Dynamic Radial Rating - C120500 lbf</div>	