



The Timken Company

4500 Mt Pleasant St. NW

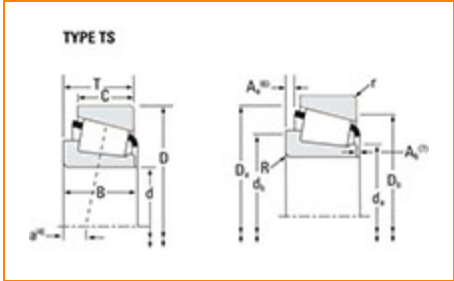
N. Canton, OH 44720

Phone: (234) 262-3000

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

Part Number 32026X, Tapered Roller Bearings - TS (Tapered Single) Metric

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	32026XM
Cone Part Number	X32026XM
Cup Part Number	Y32026XM
Design Unit	Metric
Cage Material	Stamped Steel
Related Assembly Number(s)	32026XM-90KM9

Dimensions

 d - Bore	130 mm 5.1181 in
--	---------------------

D - Cup Outer Diameter	200 mm 7.874 in
B - Cone Width	45 mm 1.7717 in
C - Cup Width	34 mm 1.3386 in
T - Bearing Width	45 mm 1.7717 in

Abutment and Fillet Dimensions

R - Cone Backface "To Clear" Radius¹	2.540 mm 0.1 in
r - Cup Backface "To Clear" Radius²	2.03 mm 0.08 in
da - Cone Frontface Backing Diameter	142 mm 5.59 in
db - Cone Backface Backing Diameter	148 mm 5.83 in
Da - Cup Frontface Backing Diameter	193.29 mm 7.61 in
Db - Cup Backface Backing Diameter	183.9 mm 7.24 in
Ab - Cage-Cone Frontface Clearance	3.6 mm 0.14 in
Aa - Cage-Cone Backface Clearance	3.6 mm 0.14 in
a - Effective Center Location³	-1 mm -0.04 in

Basic Load Ratings

C₉₀ - Dynamic Radial Rating (90 million revolutions)⁴	100000 N 22500 lbf
C₁ - Dynamic Radial Rating (1 million revolutions)⁵	386000 N 86900 lbf
C₀ - Static Radial Rating	617000 N 139000 lbf
C_{a90} - Dynamic Thrust Rating (90 million revolutions)⁶	74600 N 16800 lbf

Factors

K - Factor⁷	1.34
e - ISO Factor⁸	0.43
Y - ISO Factor⁹	1.38
G₁ - Heat Generation Factor (Roller-Raceway)	338.4
G₂ - Heat Generation Factor (Rib-Roller End)	97.3
C_g - Geometry Factor¹⁰	0.119

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.

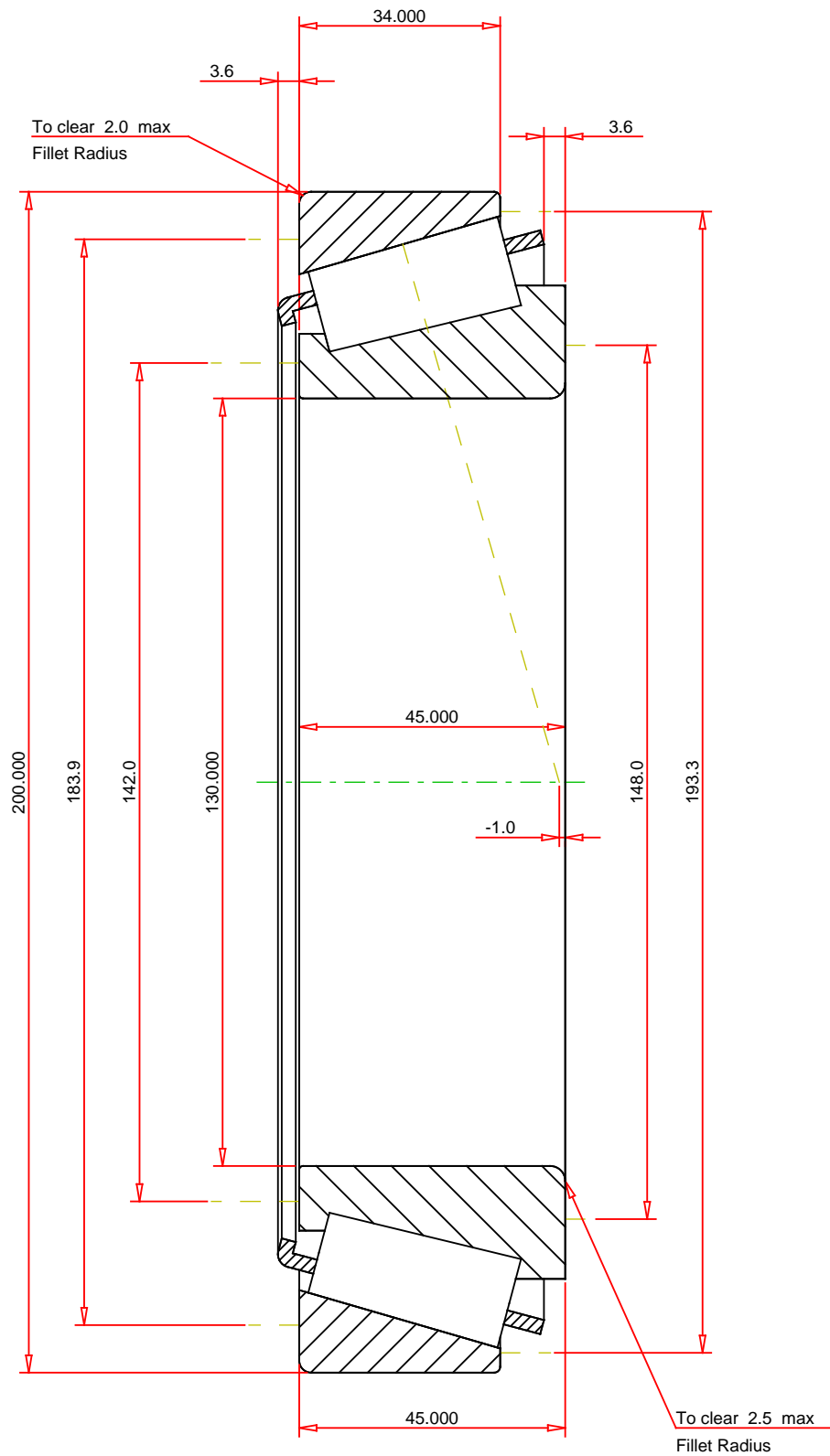
⁶ Based on 90×10^6 revolutions L_{10} life, for The Timken Company life calculation method. C_{90} and C_{a90} are radial and thrust values for a single-row, $C_{90(2)}$ is the two-row radial value.

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 a_3 .



METRIC UNITS

<div>ISO Factor - e0.43</div> <div>ISO Factor - Y1.38</div> <div>Bearing Weight0 kg</div> <div>Number of Rollers Per Row27</div> <div>Effective Center Location-1 mm</div>		<div>TIMKEN®</div> <div>THE TIMKEN COMPANY</div> <div>NORTH CANTON, OHIO USA</div>		<div>X32026XM - Y32026XM</div> <div>Tapered Roller Bearings - TS (Tapered Single)</div> <div>Metric</div>	
				<div>K Factor1.34</div> <div>Dynamic Radial Rating - C90100000 N</div> <div>Dynamic Thrust Rating - Ca9074600 N</div> <div>Static Radial Rating - C0617000 N</div> <div>Dynamic Radial Rating - C1386000 N</div>	