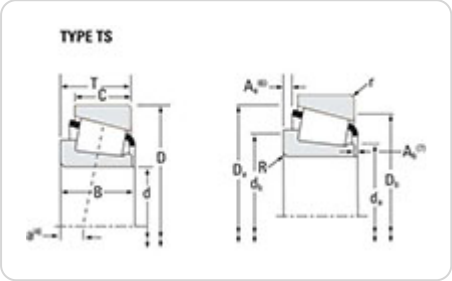
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)

Part Number 32956, Tapered Roller Bearings - TS (Tapered Single) Metric





Key Features

- Available in single, double and multi-row configurations, as well as proprietary sizes
- Designed in collaboration with OE engineers to design, engineer and test bearings for premium performance in many applications
- Power dense designs allow for heavier loads and can help extend bearing life
- Optimized internal geometry lowers torque and operating temperatures to extend lubrication system life

- Can be designed to withstand high-corrosive, high-temperature and vacuum or low-lubrication environments with proprietary enhancements

Key Dimensions

Cone Part Number	X32956M
Cup Part Number	Y32956M
Bore (d)	280 mm 11.0236 in
O.D. (D)	380 mm 14.9606 in
Width (T)	63.500 mm 2.5000 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	850000 N 191000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	220000 N 49500 lbf
e Factor [3]	0.43
K Factor [4]	1.35
Series	32956M
Y Factor [5]	1.39

Other Dimensions

Inner Ring Width (B)	63.5 mm 2.5 in
Outer Ring Width (C)	48 mm 1.8898 in
Effective Center Location[6]	11.4 mm 0.45 in
Max Shaft Fillet Radius[7]	3.050 mm 0.12 in
Max Housing Fillet Radius[8]	2.54 mm 0.1 in
Shaft Backing Shoulder Diameter - Frontface (da)	296 mm 11.65 in
Shaft Backing Shoulder Diameter - Backface (db)	300 mm 11.81 in
Housing Backing Shoulder Diameter - Frontface (Da)	369.06 mm 14.53 in
Housing Backing Shoulder Diameter - Backface (Db)	356.11 mm 14.02 in
Cage Location Relative to Backface (Aa)	6.3 mm 0.25 in
Cage Location Relative to Frontface (Ab)	4.6 mm 0.18 in
Weight	19.80 Kg 43.7 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	163000 N 36700 lbf
Static Radial Load Rating (C0)	1780000 N 401000 lbf

Factors

G1 Factor	1696.5
G2 Factor	236.2
Geometry Factor (Cg)[10]	0.168

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

[2] 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.

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

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

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

[6] Negative value indicates effective center inside cone backface.

[7] These maximum fillet radii will be cleared by the bearing corners.

[8] These maximum fillet radii will be cleared by the bearing corners.

[9] 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.

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