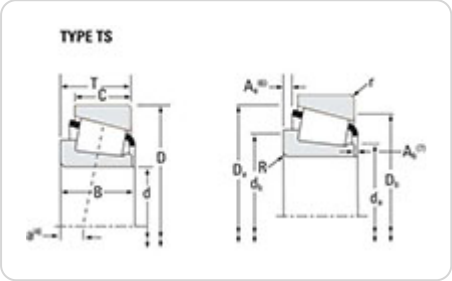
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)

Part Number 30232, 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	X30232M
Cup Part Number	Y30232M
Bore (d)	160 mm 6.2992 in
O.D. (D)	290 mm 11.4173 in
Width (T)	52 mm 2.0472 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	657000 N 148000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	170000 N 38300 lbf
e Factor [3]	0.44
K Factor [4]	1.34
Series	30232
Y Factor [5]	1.38

Other Dimensions

Inner Ring Width (B)	48 mm 1.8898 in
Outer Ring Width (C)	40 mm 1.5748 in
Effective Center Location[6]	5.1 mm 0.2 in
Max Shaft Fillet Radius[7]	4 mm 0.16 in
Max Housing Fillet Radius[8]	3 mm 0.12 in
Shaft Backing Shoulder Diameter - Frontface (da)	178 mm 7.01 in
Shaft Backing Shoulder Diameter - Backface (db)	185 mm 7.28 in
Housing Backing Shoulder Diameter - Frontface (Da)	269 mm 10.59 in
Housing Backing Shoulder Diameter - Backface (Db)	266 mm 10.47 in
Cage Location Relative to Backface (Aa)	5.3 mm 0.21 in
Cage Location Relative to Frontface (Ab)	6.1 mm 0.24 in
Weight	13.77 Kg 30.35 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	127000 N 28500 lbf
Static Radial Load Rating (C0)	868000 N 195000 lbf

Factors

G1 Factor	543
G2 Factor	78
Geometry Factor (Cg)[10]	0.116

[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.