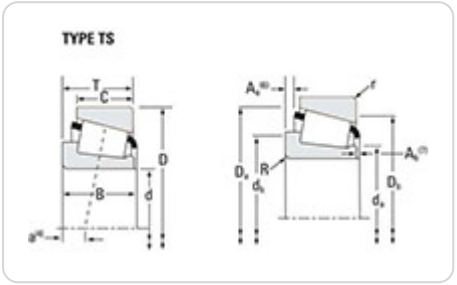
The Timken Company
4500 Mt Pleasant St. NW
N. Canton, OH 44720
Phone: (234) 262-3000
E-Mail: CustomerCAD@timken.com (mailto:CustomerCAD@timken.com) • **Web site:** www.timken.com (http://www.timken.com)

Part Number 32236, 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	X32236
Cup Part Number	Y32236
Bore (d)	180 mm 7.0866 in
O.D. (D)	320 mm 12.5984 in
Width (T)	91.000 mm 3.5827 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	1140000 N 255000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	294000 N 66200 lbf
e Factor [3]	0.45
K Factor [4]	1.27
Series	32236
Y Factor [5]	1.33

Other Dimensions

Inner Ring Width (B)	86 mm 3.3858 in
Outer Ring Width (C)	71 mm 2.7953 in
Effective Center Location[6]	-11.4 mm -0.45 in
Max Shaft Fillet Radius[7]	5 mm 0.2 in
Max Housing Fillet Radius[8]	4 mm 0.16 in
Shaft Backing Shoulder Diameter - Frontface (da)	210 mm 8.27 in
Shaft Backing Shoulder Diameter - Backface (db)	220 mm 8.66 in
Housing Backing Shoulder Diameter - Frontface (Da)	303 mm 11.93 in
Housing Backing Shoulder Diameter - Backface (Db)	288 mm 11.34 in
Cage Location Relative to Backface (Aa)	8.6 mm 0.34 in
Cage Location Relative to Frontface (Ab)	8.1 mm 0.32 in
Weight	30.25 Kg 66.7 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	227000 N 51000 lbf
Static Radial Load Rating (C0)	1900000 N 427000 lbf

Factors

G1 Factor	988.6
G2 Factor	103.7
Geometry Factor (Cg)[10]	0.144

[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.