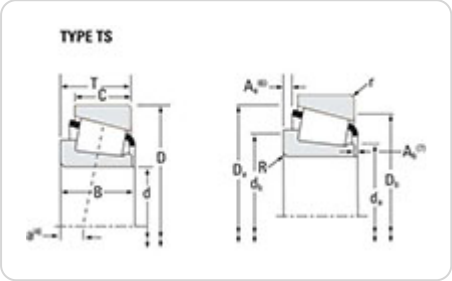
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Part Number 32972, Tapered Roller Bearings - TS (Tapered Single) Metric





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	X32972M
Cup Part Number	Y32972M
Bore (d)	360 mm 14.1732 in
O.D. (D)	480 mm 18.8976 in
Width (T)	76.000 mm 2.9921 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	1250000 N 281000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	324000 N 72800 lbf
e Factor [3]	0.46
K Factor [4]	1.27
Series	32972M
Y Factor [5]	1.31

Other Dimensions

Inner Ring Width (B)	76 mm 2.9921 in
Outer Ring Width (C)	57 mm 2.2441 in
Effective Center Location[6]	20.6 mm 0.81 in
Max Shaft Fillet Radius[7]	4.060 mm 0.16 in
Max Housing Fillet Radius[8]	3.05 mm 0.12 in
Shaft Backing Shoulder Diameter - Frontface (da)	378 mm 14.88 in
Shaft Backing Shoulder Diameter - Backface (db)	385 mm 15.16 in
Housing Backing Shoulder Diameter - Frontface (Da)	466.10 mm 18.39 in
Housing Backing Shoulder Diameter - Backface (Db)	451.10 mm 17.76 in
Cage Location Relative to Backface (Aa)	9.4 mm 0.37 in
Cage Location Relative to Frontface (Ab)	5.8 mm 0.23 in
Weight	36.2 Kg 79.80 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	254000 N 57100 lbf
Static Radial Load Rating (C0)	2780000 N 624000 lbf

Factors

G1 Factor	2984.5
G2 Factor	344.6
Geometry Factor (Cg)[10]	0.206

[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.