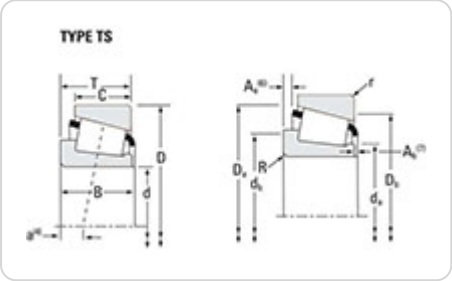
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Part Number 32048X, Tapered Roller Bearings - TS (Tapered Single) Metric





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	X32048X
Cup Part Number	Y32048X
Bore (d)	240 mm 9.4488 in
O.D. (D)	360 mm 14.1732 in
Width (T)	76.000 mm 2.9921 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	1180000 N 266000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	306000 N 68900 lbf
e Factor [3]	0.46
K Factor [4]	1.27
Series	32048X
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]	2.2 mm 0.09 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)	259 mm 10.2 in
Shaft Backing Shoulder Diameter - Backface (db)	268 mm 10.55 in
Housing Backing Shoulder Diameter - Frontface (Da)	346.96 mm 13.66 in
Housing Backing Shoulder Diameter - Backface (Db)	330.96 mm 13.03 in
Cage Location Relative to Backface (Aa)	9.4 mm 0.37 in
Cage Location Relative to Frontface (Ab)	5.6 mm 0.22 in
Weight	25.700 Kg 56.70 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	241000 N 54100 lbf
Static Radial Load Rating (C0)	1940000 N 435000 lbf

Factors

G1 Factor	1385
G2 Factor	145
Geometry Factor (Cg)[10]	0.161

[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.