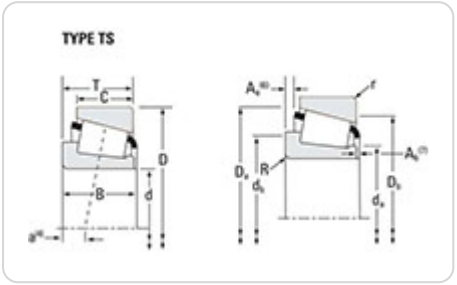
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Part Number 32248, Tapered Roller Bearings - TS (Tapered Single) Metric





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	X32248
Cup Part Number	Y32248
Bore (d)	240 mm 9.4488 in
O.D. (D)	440 mm 17.3228 in
Width (T)	127 mm 5.0000 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	2180000 N 491000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	566000 N 127000 lbf
e Factor [3]	0.44
K Factor [4]	1.34
Series	32248
Y Factor [5]	1.38

Other Dimensions

Inner Ring Width (B)	120 mm 4.7244 in
Outer Ring Width (C)	100 mm 3.937 in
Effective Center Location[6]	-17.5 mm -0.69 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)	280 mm 11.02 in
Shaft Backing Shoulder Diameter - Backface (db)	293 mm 11.54 in
Housing Backing Shoulder Diameter - Frontface (Da)	415 mm 16.34 in
Housing Backing Shoulder Diameter - Backface (Db)	394 mm 15.51 in
Cage Location Relative to Backface (Aa)	10.9 mm 0.43 in
Cage Location Relative to Frontface (Ab)	8.6 mm 0.34 in
Weight	81.12 Kg 178.85 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	422000 N 94800 lbf
Static Radial Load Rating (C0)	3680000 N 828000 lbf

Factors

G1 Factor	2021.3
G2 Factor	103
Geometry Factor (Cg)[10]	0.18

[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.