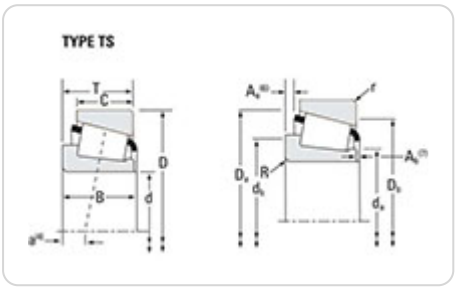
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Part Number 32240, Tapered Roller Bearings - TS (Tapered Single) Metric





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	X32240
Cup Part Number	Y32240
Bore (d)	200 mm 7.874 in
O.D. (D)	360 mm 14.1732 in
Width (T)	104.000 mm 4.0945 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	1390000 N 312000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	360000 N 80900 lbf
e Factor [3]	0.41
K Factor [4]	1.44
Series	32240
Y Factor [5]	1.48

Other Dimensions

Inner Ring Width (B)	98 mm 3.8583 in
Outer Ring Width (C)	82 mm 3.2283 in
Effective Center Location[6]	-20.3 mm -0.8 in
Max Shaft Fillet Radius[7]	5 mm 0.197 in
Max Housing Fillet Radius[8]	4 mm 0.16 in
Shaft Backing Shoulder Diameter - Frontface (da)	229 mm 9.21 in
Shaft Backing Shoulder Diameter - Backface (db)	240 mm 9.45 in
Housing Backing Shoulder Diameter - Frontface (Da)	340 mm 13.39 in
Housing Backing Shoulder Diameter - Backface (Db)	326 mm 12.83 in
Cage Location Relative to Backface (Aa)	15.5 mm 0.61 in
Cage Location Relative to Frontface (Ab)	7.4 mm 0.29 in
Weight	42.61 Kg 93.9 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	250000 N 56300 lbf
Static Radial Load Rating (C0)	2250000 N 506000 lbf

Factors

G1 Factor	1227.1
G2 Factor	110.8
Geometry Factor (Cg)[10]	0.149

[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.