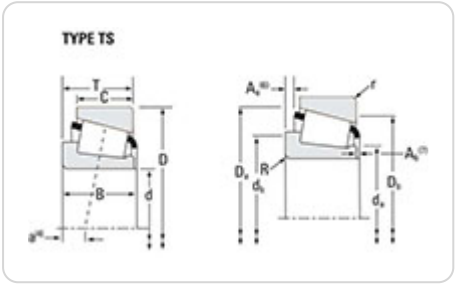
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Part Number 30234, Tapered Roller Bearings - TS (Tapered Single) Metric





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	X30234
Cup Part Number	Y30234
Bore (d)	170 mm 6.6929 in
O.D. (D)	310 mm 12.2047 in
Width (T)	57.000 mm 2.2441 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	780000 N 175000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	202000 N 45500 lbf
e Factor [3]	0.44
K Factor [4]	1.34
Series	30234
Y Factor [5]	1.38

Other Dimensions

Inner Ring Width (B)	52 mm 2.0472 in
Outer Ring Width (C)	43 mm 1.6929 in
Effective Center Location[6]	5.8 mm 0.23 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)	191 mm 7.52 in
Shaft Backing Shoulder Diameter - Backface (db)	198 mm 7.8 in
Housing Backing Shoulder Diameter - Frontface (Da)	288 mm 11.34 in
Housing Backing Shoulder Diameter - Backface (Db)	285 mm 11.22 in
Cage Location Relative to Backface (Aa)	4.3 mm 0.17 in
Cage Location Relative to Frontface (Ab)	6.9 mm 0.27 in
Weight	17.1 Kg 37.7 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	151000 N 33900 lbf
Static Radial Load Rating (C0)	1000000 N 225000 lbf

Factors

G1 Factor	615.2
G2 Factor	89.8
Geometry Factor (Cg)[10]	0.12

[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.