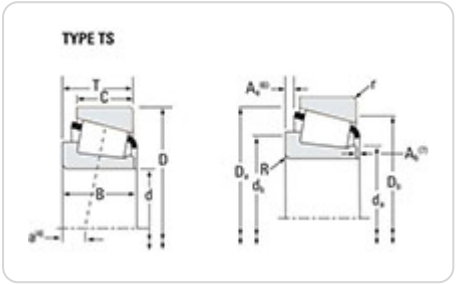
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Part Number 30230, Tapered Roller Bearings - TS (Tapered Single) Metric





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	X30230M
Cup Part Number	Y30230M
Bore (d)	150 mm 5.9055 in
O.D. (D)	270 mm 10.6299 in
Width (T)	49.000 mm 1.9291 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	565000 N 127000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	146000 N 32900 lbf
e Factor [3]	0.44
K Factor [4]	1.34
Series	30230M
Y Factor [5]	1.38

Other Dimensions

Inner Ring Width (B)	45 mm 1.7717 in
Outer Ring Width (C)	38 mm 1.4961 in
Effective Center Location[6]	3.6 mm 0.14 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)	168 mm 6.61 in
Shaft Backing Shoulder Diameter - Backface (db)	174 mm 6.85 in
Housing Backing Shoulder Diameter - Frontface (Da)	250.44 mm 9.86 in
Housing Backing Shoulder Diameter - Backface (Db)	245.11 mm 9.65 in
Cage Location Relative to Backface (Aa)	3.6 mm 0.14 in
Cage Location Relative to Frontface (Ab)	8.9 mm 0.35 in
Weight	11.0 Kg 24.3 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	109000 N 24500 lbf
Static Radial Load Rating (C0)	735000 N 165000 lbf

Factors

G1 Factor	407
G2 Factor	78.5
Geometry Factor (Cg)[10]	0.125

[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.