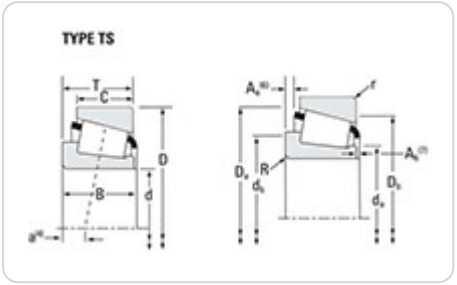
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Part Number 30222, Tapered Roller Bearings - TS (Tapered Single) Metric





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	X30222M
Cup Part Number	Y30222M
Bore (d)	110 mm 4.3307 in
O.D. (D)	200 mm 7.874 in
Width (T)	41.000 mm 1.6142 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	374000 N 84000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	96900 N 21800 lbf
e Factor [3]	0.42
K Factor [4]	1.39
Series	30222M
Y Factor [5]	1.43

Other Dimensions

Inner Ring Width (B)	38.000 mm 1.4961 in
Outer Ring Width (C)	32.000 mm 1.2598 in
Effective Center Location[6]	-1.5 mm -0.06 in
Max Shaft Fillet Radius[7]	3.050 mm 0.12 in
Max Housing Fillet Radius[8]	2.54 mm 0.1 in
Shaft Backing Shoulder Diameter - Frontface (da)	126 mm 4.96 in
Shaft Backing Shoulder Diameter - Backface (db)	130 mm 5.12 in
Housing Backing Shoulder Diameter - Frontface (Da)	187.96 mm 7.40 in
Housing Backing Shoulder Diameter - Backface (Db)	181.10 mm 7.13 in
Cage Location Relative to Backface (Aa)	3.3 mm 0.13 in
Cage Location Relative to Frontface (Ab)	6.6 mm 0.26 in
Weight	5.2 Kg 11.5 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	69700 N 15700 lbf
Static Radial Load Rating (C0)	475000 N 107000 lbf

Factors

G1 Factor	219.5
G2 Factor	59.8
Geometry Factor (Cg)[10]	0.101

[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.