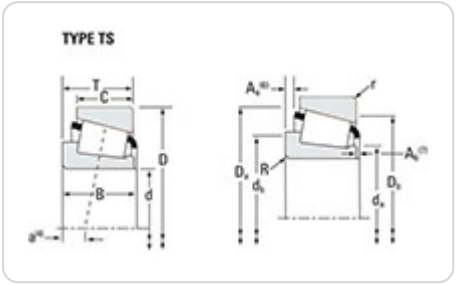
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Part Number 32252, Tapered Roller Bearings - TS (Tapered Single) Metric





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	X32252
Cup Part Number	Y32252
Bore (d)	260 mm 10.2362 in
O.D. (D)	480 mm 18.8976 in
Width (T)	137 mm 5.3937 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	2860000 N 642000 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	741000 N 167000 lbf
e Factor [3]	0.43
K Factor [4]	1.36
Series	32252
Y Factor [5]	1.39

Other Dimensions

Inner Ring Width (B)	130 mm 5.1181 in
Outer Ring Width (C)	106 mm 4.1732 in
Effective Center Location[6]	-22.8 mm -0.9 in
Max Shaft Fillet Radius[7]	6 mm 0.24 in
Max Housing Fillet Radius[8]	5 mm 0.2 in
Shaft Backing Shoulder Diameter - Frontface (da)	306 mm 12.05 in
Shaft Backing Shoulder Diameter - Backface (db)	315 mm 12.4 in
Housing Backing Shoulder Diameter - Frontface (Da)	454.5 mm 17.89 in
Housing Backing Shoulder Diameter - Backface (Db)	432 mm 17.01 in
Cage Location Relative to Backface (Aa)	17 mm 0.67 in
Cage Location Relative to Frontface (Ab)	10.7 mm 0.42 in
Weight	103.96 Kg 229.19 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	546000 N 123000 lbf
Static Radial Load Rating (C0)	4140000 N 930000 lbf

Factors

G1 Factor	2419.2
G2 Factor	141.7
Geometry Factor (Cg)[10]	0.1902

[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.