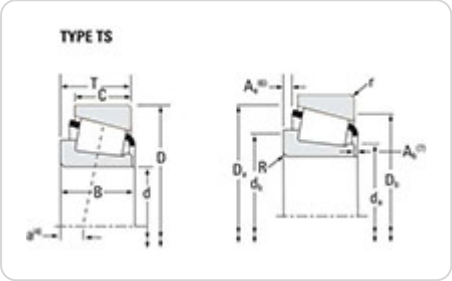
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Part Number 32007X, Tapered Roller Bearings - TS (Tapered Single) Metric





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	X32007X
Cup Part Number	Y32007X
Bore (d)	35.000 mm 1.3780 in
O.D. (D)	62 mm 2.4409 in
Width (T)	18.000 mm 0.7087 in
Dynamic Radial Load Rating - 1M Revs (C1) [1]	56500 N 12700 lbf
Dynamic Radial Load Rating - 90M Revs (C90) [2]	14600 N 3290 lbf
e Factor [3]	0.45
K Factor [4]	1.29
Series	32007X
Y Factor [5]	1.32

Other Dimensions

Inner Ring Width (B)	18 mm 0.7087 in
Outer Ring Width (C)	14 mm 0.5512 in
Effective Center Location[6]	-2.5 mm -0.1 in
Max Shaft Fillet Radius[7]	1.020 mm 0.040 in
Max Housing Fillet Radius[8]	1.02 mm 0.04 in
Shaft Backing Shoulder Diameter - Frontface (da)	41.5 mm 1.63 in
Shaft Backing Shoulder Diameter - Backface (db)	43 mm 1.69 in
Housing Backing Shoulder Diameter - Frontface (Da)	59.90 mm 2.36 in
Housing Backing Shoulder Diameter - Backface (Db)	55.12 mm 2.17 in
Cage Location Relative to Backface (Aa)	0.3 mm 0.01 in
Cage Location Relative to Frontface (Ab)	1.8 mm 0.07 in
Weight	0.20 Kg 0.5 lb

Ratings

Dynamic Axial Rating - 90M Revs (Ca90)[9]	11400 N 2560 lbf
Static Radial Load Rating (C0)	57600 N 12900 lbf

Factors

G1 Factor	16.7
G2 Factor	15.7
Geometry Factor (Cg)[10]	0.0691

[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.