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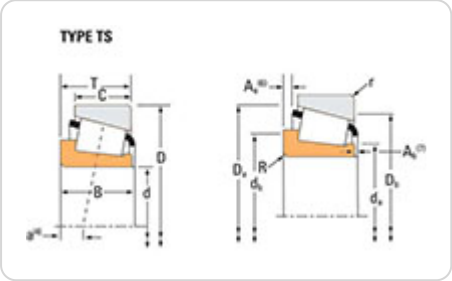
Part Number NA05075, Tapered Roller Bearings - Single Cones - Imperial





This is the most basic and most widely used type of tapered roller bearing. It consists of two main separable parts: the cone (inner ring) assembly and the cup (outer ring). It is typically mounted in opposing pairs on a shaft.

Key Dimensions

Bore (d)	0.7500 in 19.050 mm

Dynamic Radial Load Rating - 90M Revs (C90) [1]	1560 lbf 6930 N
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions)[2]	10500 lbf 46500 N
Dynamic Radial Load Rating 2-Row - 90M Revs (C90-2row) [3]	2710 lbf 12100 N
K Factor [4]	1.64

Other Dimensions

Inner Ring Width (B)	0.625 in 15.875 mm
Max Shaft Fillet Radius[5]	0.050 in 1.300 mm
Shaft Backing Shoulder Diameter - Backface (db)	0.98 in 25 mm
Cage Location Relative to Frontface (Ab)	-0.03125 in -0.79375 mm
Cage Location Relative to Backface (Aa)	0.0625 in 1.5875 mm
Effective Center Location[6]	-0.16 in -4.1 mm

Ratings

C_{a90} - Dynamic Thrust Rating (90 million revolutions)[7]	952 lbf 4230 N

[1] 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.

[2] Based on 1 x 10^6 revolutions L_{10} life, for the ISO life calculation method.

[3] 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.

[4] These factors apply for both inch and metric calculations. Consult your Timken representative for instruction on use.

[5] These maximum fillet radii will be cleared by the bearing corners.

[6] Negative value indicates effective center inside cone backface.

[7] 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.