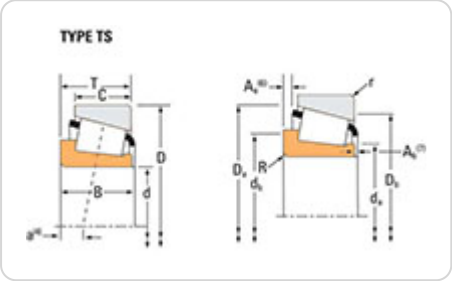
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Part Number 33262, Tapered Roller Bearings - Single Cones - Imperial





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

Series	33000
Cone Part Number	33262

Bore (d)	2.6250 in 66.675 mm
Dynamic Radial Load Rating - 90M Revs (C90) [1]	8060 lbf 35900 N
Dynamic Radial Load Rating - 1M Revs (C1) [2]	31100 lbf 138000 N
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions)[3]	54200 lbf 241000 N
Dynamic Radial Load Rating 2-Row - 90M Revs (C90-2row) [4]	14000 lbf 62400 N
K Factor [5]	1.34

Other Dimensions

Inner Ring Width (B)	1.1875 in 30.163 mm
Max Shaft Fillet Radius[6]	0.14 in 3.600 mm
Shaft Backing Shoulder Diameter - Frontface (da)	2.95 in 75 mm
Shaft Backing Shoulder Diameter - Backface (db)	3.19 in 81 mm
Cage Location Relative to Frontface (Ab)	0.07 in 1.8 mm
Cage Location Relative to Backface (Aa)	0.07 in 1.8 mm
Effective Center Location[7]	-0.11 in -2.8 mm
Weight	7.78 lb 3.528 Kg

Ratings

Static Radial Load Rating (C0)	44300 lbf 197000 N
C_{a90} - Dynamic Thrust Rating (90 million revolutions)[8]	6020 lbf 26800 N

Factors

G1 Factor	84.2
G2 Factor	25.9
Geometry Factor (Cg)[9]	0.116

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

[4] 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.

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

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

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

[8] 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.

[9] Geometry constant for Lubrication Life Adjustment Factor a3l.