



Machinery Parts Bearing Manufacturing

TYPE TS



Timken 31594 Bearing

Bearing No. 31594

31594 Bearing 2D drawings and 3D CAD models

Series	31500
Cone Part Number	31594
Design Units	Imperial
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions) ¹	37100 lbf
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions) ²	9610 lbf
d	1.3750 in
B - Cone Width	1.1250 in
R - Cone Backface To Clear Radius ³	0.06 in
da - Cone Frontface Backing Diameter	1.71 in
db - Cone Backface Backing Diameter	1.81 in
Ab - Cage-Cone Frontface Clearance	0.08 in
Aa - Cage-Cone Backface Clearance	0.04 in
a - Effective Center Location ⁴	-0.3 in
C90 - Dynamic Radial Rating (90 million revolutions) ⁵	5520 lbf
C1 - Dynamic Radial Rating (1 million revolutions) ⁶	21300 lbf
C0 - Static Radial Rating	24100 lbf



Machinery Parts Bearing Manufacturing

C_{a90} - Dynamic Thrust Rating (90 million revolutions) ⁷	3800 lbf
K - Factor ⁸	1.45
G1 - Heat Generation Factor (Roller-Raceway)	26.3
G2 - Heat Generation Factor (Rib-Roller End)	9.08
Cg - Geometry Factor	0.0773