



YUKEN Single Vane Pump Ltd.

TYPE TS



TIMKEN Taper roller bearing 37431 size
109.54x158.75x23.02

Bearing No. 37431

37431 Bearing 2D drawings and 3D CAD models

Series	37000
Cone Part Number	37431
Design Units	Imperial
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions) ¹	45100 lbf
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions) ²	11700 lbf
d	4.3125 in
B - Cone Width	0.8440 in
R - Cone Backface To Clear Radius ³	0.14 in
da - Cone Frontface Backing Diameter	4.57 in
db - Cone Backface Backing Diameter	4.84 in
Ab - Cage-Cone Frontface Clearance	0.15 in
Aa - Cage-Cone Backface Clearance	0.08 in
a - Effective Center Location ⁴	0.54 in
C90 - Dynamic Radial Rating (90 million revolutions) ⁵	6710 lbf
C1 - Dynamic Radial Rating (1 million revolutions) ⁶	25900 lbf



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C0 - Static Radial Rating	40100 lbf
C _{a90} - Dynamic Thrust Rating (90 million revolutions) ⁷	6960 lbf
K - Factor ⁸	0.96
G1 - Heat Generation Factor (Roller-Raceway)	123.7
G2 - Heat Generation Factor (Rib-Roller End)	57.1
Cg - Geometry Factor	0.144