



BEARING CORP.

TYPE TS



Timken 18790 Bearing

Bearing No. 18790

Series	18700
Cone Part Number	18790
Design Units	Imperial
Cage Type	Stamped Steel
C1 - Dynamic Radial Rating (Two-Row, 1 million revolutions) ¹	21400 lbf
C90(2) - Dynamic Radial Rating (Two-Row, 90 million revolutions) ²	5550 lbf
d	2 in
B - Cone Width	0.6875 in
R - Cone Backface To Clear Radius ³	0.14 in
da - Cone Frontface Backing Diameter	2.2 in
db - Cone Backface Backing Diameter	2.44 in
Ab - Cage-Cone Frontface Clearance	0.09 in
Aa - Cage-Cone Backface Clearance	0.02 in
a - Effective Center Location ⁴	-0.03 in
C90 - Dynamic Radial Rating (90 million revolutions) ⁵	3190 lbf
C1 - Dynamic Radial Rating (1 million revolutions) ⁶	12300 lbf
C0 - Static Radial Rating	15200 lbf

18790 Bearing 2D drawings and 3D CAD models



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C_{a90} - Dynamic Thrust Rating (90 million revolutions) ⁷	2210 lbf
K - Factor ⁸	1.44
G1 - Heat Generation Factor (Roller-Raceway)	28.6
G2 - Heat Generation Factor (Rib-Roller End)	21.5
Cg - Geometry Factor	0.0789