

NACHI 7312BDT angular contact ball bearings

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Series	49500
Cone Part Number	49576
Cup Part Number	49520-B
Design Units	Imperial
Bearing Weight	2.9 lb
Cage Type	Stamped Steel
d	1.7500 in
D	4.0000 in
D1 – Flange Outer Diameter	4.2148 in
B – Cone Width	1.2500 in
C – Cup Width	1.0000 in
C1 – Cup Flange Width	0.2188 in
T1 – Bearing Width	1.250 in
T – Bearing Width to Flange	0.4688 in
R – Cone Backface To Clear Radius1	0.03 in
r – Cup Backface To Clear Radius2	0.130 in
da – Cone Frontface Backing Diameter	2.13 in
db – Cone Backface Backing Diameter	2.17 in
Da – Cup Frontface Backing Diameter	3.90 in
Ab – Cage-Cone Frontface Clearance	0.09 in
Aa – Cage-Cone Backface Clearance	0.07 in

a – Effective Center Location ³	-0.28 in
C ₉₀ – Dynamic Radial Rating (90 million revolutions) ⁴	9170 lbf
C ₁ – Dynamic Radial Rating (1 million revolutions) ⁵	35400 lbf
C ₀ – Static Radial Rating	35000 lbf
Ca ₉₀ – Dynamic Thrust Rating (90 million revolutions) ⁶	6290 lbf
K – Factor ⁷	1.46
e – ISO Factor ⁸	0.4
Y – ISO Factor ⁹	1.5
G ₁ – Heat Generation Factor (Roller-Raceway) ¹⁰	49.1
G ₂ – Heat Generation Factor (Rib-Roller End)	14.2
C _g – Geometry Factor ¹¹	0.0946