

# INA K50X55X17 needle roller bearings

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Series	A4000
Cone Part Number	A4059
Cup Part Number	A4138D
Design Units	Imperial
Bearing Weight	0.25 lb
Cage Type	Stamped Steel
Ab – Cage-Cone Frontface Clearance	0.07 in
d	0.5901 in
D	1.3775 in
B – Cone Width	0.4326 in
C – Double Cup Width	0.8125 in
T – Bearing Width across Cones	0.9910 in
R – Cone Backface To Clear Radius <sup>1</sup>	0.03 in
r – Cup Frontface To Clear Radius <sup>2</sup>	0.03 in
db – Cone Backface Backing Diameter	0.77 in
Da – Cup Frontface Backing Diameter	1.26 in
Aa – Cage-Cone Backface Clearance	0 in
C <sub>90</sub> – Dynamic Radial Rating (One-Row, 90 million revolutions) <sup>3</sup>	767 lbf
C <sub>1</sub> – Dynamic Radial Rating (Two-Row, 1 million revolutions) <sup>4</sup>	5150 lbf
C <sub>90(2)</sub> – Dynamic Radial Rating (Two-Row, 90 million revolutions) <sup>5</sup>	1330 lbf

Ca90 – Dynamic Thrust Rating (90 million revolutions) <sup>6</sup>	594 lbf
K – Factor <sup>7</sup>	1.29
e – ISO Factor <sup>8</sup>	0.45
Y1 – ISO Factor <sup>9</sup>	1.49
Y2 – ISO Factor <sup>10</sup>	2.22
Cg – Geometry Factor <sup>11</sup>	0.0355