

# ISO K170x180x46 needle roller bearings

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Series	71000
Cone Part Number	71412
Design Units	Imperial
Cage Type	Stamped Steel
C1 – Dynamic Radial Rating (Two-Row, 1 million revolutions) <sup>1</sup>	142000 lbf
C90(2) – Dynamic Radial Rating (Two-Row, 90 million revolutions) <sup>2</sup>	36900 lbf
d	4.1250 in
B – Cone Width	1.9375 in
R – Cone Backface To Clear Radius <sup>3</sup>	0.14 in
da – Cone Frontface Backing Diameter	4.65 in
db – Cone Backface Backing Diameter	4.88 in
Ab – Cage-Cone Frontface Clearance	0.1 in
Aa – Cage-Cone Backface Clearance	0.18 in
a – Effective Center Location <sup>4</sup>	-0.26 in
C90 – Dynamic Radial Rating (90 million revolutions) <sup>5</sup>	21200 lbf
C1 – Dynamic Radial Rating (1 million revolutions) <sup>6</sup>	81700 lbf
C0 – Static Radial Rating	122000 lbf
Ca90 – Dynamic Thrust Rating (90 million revolutions) <sup>7</sup>	15100 lbf
K – Factor <sup>8</sup>	1.4

G1 – Heat Generation Factor (Roller-Raceway)	269.2
G2 – Heat Generation Factor (Rib-Roller End)	49.5
Cg – Geometry Factor	0.116