

# NTN NK50/35R+IR45×50×35 needle roller bearings

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Size (mm)	270x150x45
Bore Diameter (mm)	270
Outer Diameter (mm)	150
Width (mm)	45
d	150 mm
D	270 mm
B	45 mm
d1	193 mm
D1	232.2 mm
F	182 mm
r1,2 – min.	3 mm
r3,4 – min.	3 mm
da – min.	164 mm
db – min.	196 mm
Da – max.	254.6 mm
ra – max.	2.5 mm
Basic dynamic load rating – C	510 kN
Basic static load rating – C0	600 kN
Fatigue load limit – Pu	64 kN
Reference speed	2600 r/min
Limiting speed	2800 r/min

Calculation factor – $k_r$	0.15
$d_1 \approx$	193 mm
$D_1 \approx$	232.35 mm
$r_{1,2} \text{ min.}$	3 mm
$r_{3,4} \text{ min.}$	3 mm
$d_a \text{ min.}$	164 mm
$d_b \text{ min.}$	196 mm
$D_a \text{ max.}$	254.6 mm
$r_a \text{ max.}$	2.5 mm
Basic dynamic load rating C	510 kN
Basic static load rating $C_0$	600 kN
Fatigue load limit $P_u$	64 kN
Calculation factor $k_r$	0.15
Limiting value e	0.2
Axial load factor Y	0.6
Mass bearing	12.2 kg