



SKF NRT 80 B thrust roller bearings

Bearing No. NRT 80 B

Size	80x146x35 mm
Bore Diameter	80 mm
Outer Diameter	146 mm
Width	35 mm
d	80 mm
D	146 mm
H	35 mm
d ₁	130 mm
C	12 mm
H ₁	23.35 mm
J	92 mm
J ₁	138 mm
H	5.6 mm
N ₁	10 mm
N ₂	4.6 mm
a	4 mm
r ₁ - min.	0.3 mm
r ₂ - min.	0.3 mm
Basic dynamic load rating, radial direction - C	55 kN
Basic static load rating, radial direction - C ₀	102 kN
Basic dynamic load rating, axial direction - C	37.5 kN
Basic static load rating, axial direction - C ₀	200 kN

NRT 80 B Bearing 2D drawings and 3D CAD models



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Limiting speed for grease lubrication	350 r/min
Limiting speed for oil lubrication	700 mm/min
Axial Preload	1.3 N
Axial unloading force	2.8 kN
Frictional moment - C_{RL}	3 N · m
axial stiffness	5 N/micron
radial stiffness	3.1 N/micron
Moment stiffness	7000 kN · m/mrad
Mass bearing	2.3 kg
Guideline diameter	200 mm
Size - G	M5
Number of bolts	3
Angle between bolts	120 °
Size bolts	M4
Pitch - α ;	30 °
Number of bolts	9
Tightening torque	4.5 N · m
Size bolts	M5
Pitch - α ;	30 °
Number of bolts	10
Tightening torque	8.5 N · m
Size	M5
d_1	130 mm
H_1	23.35 mm
J_1	138 mm
N	5.6 mm
N_1	10 mm
N_2	4.6 mm
r_1 min.	0.3 mm
r_2 min.	0.3 mm
Basic dynamic load rating -	55 kN



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radial direction C	
Basic static load rating - radial direction C_0	102 kN
Basic dynamic load rating - axial direction C	37.5 kN
Basic static load rating - axial direction C_0	200 kN
Attainable speed for grease lubrication	350 r/min
Attainable speed for oil-air lubrication	700 r/min
Axial preload	1.3 kN
Frictional moment C_{RL}	3 N · m
Axial stiffness	5 kN/ μ m
Radial stiffness	3.1 kN/ μ m
Guideline rotary table diameter	200 mm
Size G	M5
Number of threads	3
Angle between threads	120 °
Bolt size	M5
Pitch	30 °
Tightening torque (Bolt grade 10.9)	8.5 N · m
Bolt size	M4
Pitch	30 °
Tightening torque (Bolt grade 10.9)	4.5 N · m