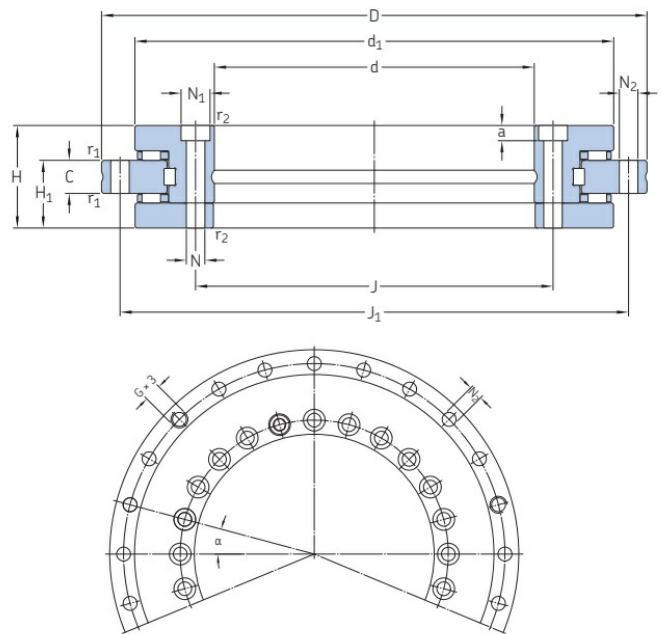


NRT 80 B



New Designations :		NRT 80 B
Main demensions :	80 × 146 × 35	Bore Dia × Outside Dia × Width Dia (mm)
M :	2.2 kg	Weight
ID :	80 mm	Inside diameter(I.D.)
OD :	146 mm	Outside diameter(O.D.)
T(B) :	35 mm	Thickness(W.D.)
C :	54.524 kN	Radial dynamic load rating
C0 :	101.495 kN	Radial static load rating
Grease rpm :	345 r/min	Reference speed
Oil rpm :	684 r/min	Limiting speed
Category :	Axial-radial cylindrical roller bearings, super-precision	

Detailed parameters and installation dimensions:

Part Number	NRT 80 B
Series	NRT series (NRT..B)
Internal design	B = Modified internal design
Dimension Inside - d φ	80 mm 3.1496 inch
Dimension Outside - D Φ	146 mm 5.7480 inch

Dimension Height - H	35 mm 1.3780 inch
Type	NRT = Axial-radial cylindrical roller bearing
Units	Metric
Bearing Mass - m	2.2 kg 4.8501 lb
Fillet radius - r_1 min	0.3 mm 0.0118 inch
Fillet radius - r_2 min	0.3 mm 0.0118 inch
Dimension - d_1	130 mm 5.1181 inch
Removal threads Size - G	M5
Retaining bolts Size	M5
Radial Dynamic Capacity - C_r	54524 N 12256 lbf
Radial Static Capacity - C_{0r}	101495 N 22816 lbf
Housing Bolt size	M4
Shaft Bolt size	M5
Ring Material	GCr15SiMn
Removal threads Number of threads	3
Removal threads Angle between threads	120 °
Housing Pitch	30 °
Shaft Number of bolts	10
Housing Number of bolts	9
Housing Tightening torque	4.5 N·m
Shaft Pitch	30 °
Shaft Tightening torque	8.5 N·m
Dynamic Axial Capacity - C_a	37139 N 8348 lbf
Static Axial Capacity - C_{0a}	199344 N 44812 lbf
Retaining bolts Number of bolts	2
Retaining bolts Angle between bolts	180 °
Outer ring (housing washer) width - C	12 mm 0.4724 inch
Distance - H_1	23.35 mm 0.9193 inch
Bearing Type	Super-precision axial-radial cylindrical roller bearings for support rotary tables
Manufacturer Part Code	NRT80B
Load	Axial-radial
Dimension hole pitch circle - J	92 mm 3.6220 inch
Dimension hole pitch circle - J_1	138 mm 5.4331 inch
Dimension through hole - N	5.6 mm 0.2205 inch
Dimension sinkhole - N_1	10 mm 0.3937 inch
Dimension through hole - N_2	4.6 mm 0.1811 inch
Dimension sinkhole depth - a	4 mm 0.1575 inch
Speed ratings (grease) - n_B	345 min ⁻¹
Speed ratings (oil) - n_G	684 min ⁻¹
Axial preload	1214 N 272 lbf
Axial unloading force	2772 N 623 lbf
Roller Material	GCr15SiMn
Frictional moment - C_{RL}	3 N·m

Axial stiffness for preload - A (sets of two bearing)	4923 N/μm
Axial stiffness for preload - B (sets of two bearing)	3059 N/μm
Moment stiffness	6964 N·m/mrad
Guideline rotary table diameter	200 mm 7.8740 inch

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