

# AST NK10/12TN needle roller bearings

Our highly-skilled 75 Bore Diameter (mm) and factory-trained 75x105x16 Size (mm) service experts have the resources to help you with all your AST NK10/12TN needle roller bearings needs – including routine maintenance, major repairs, warranty service, 105 Outer Diameter (mm) and equipment inspections.

Size (mm)	75x105x16
Bore Diameter (mm)	75
Outer Diameter (mm)	105
Width (mm)	16
d	75 mm
D	105 mm
B	16 mm
C	16 mm
d1	84.3 mm
d2	81.8 mm
r1 min.	1 mm
r2 min.	1 mm
r3 min.	0,3 mm
r4 min.	0,3 mm
D1	95,5 mm
D2	98.6 mm
da min.	79.6 mm
Da max.	100.4 mm
db min	77 mm
ra max.	1 mm

rb max.	0.3 mm
dh	86,5 mm
Db max	103 mm
Weight	0,34 Kg
Basic dynamic load rating (C)	21,2 kN
Basic static load rating (C0)	16,3 kN
(Grease) Lubrication Speed	15 500 r/min
(Oil) Lubrication Speed	24 000 r/min
Fatigue load limit (Pu)	0,68
r1,2 min.	1 mm
r3,4 min.	0.3 mm
a	30.2 mm
da max.	83.7 mm
db min.	77 mm
db max.	81.2 mm
Db max.	103 mm
Basic dynamic load rating C	21.2 kN
Basic static load rating C0	16.3 kN
Fatigue load limit Pu	0.68 kN
Attainable speed for grease lubrication	15500 r/min
Ball diameter Dw	9.525 mm
Number of balls z	23
Preload class A GA	192 N
Static axial stiffness, preload class A	137 N/ $\mu$ m
Preload class B GB	577 N
Static axial stiffness, preload class B	205 N/ $\mu$ m
Preload class C GC	1150 N
Static axial stiffness, preload class C	269 N/ $\mu$ m
Calculation factor f	1.16

Calculation factor f1	0.99
Calculation factor f2A	1
Calculation factor f2B	1.04
Calculation factor f2C	1.07
Calculation factor fHC	1
Calculation factor e	0.68
Calculation factor (single, tandem) Y2	0.87
Calculation factor (single, tandem) Y0	0.38
Calculation factor (single, tandem) X2	0.41
Calculation factor (back-to-back, face-to-face) Y1	0.92
Calculation factor (back-to-back, face-to-face) Y2	1.41
Calculation factor (back-to-back, face-to-face) Y0	0.76
Calculation factor (back-to-back, face-to-face) X2	0.67
Mass bearing	0.34 kg