

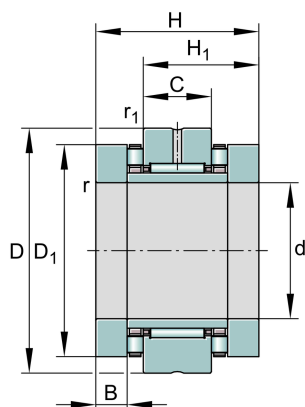
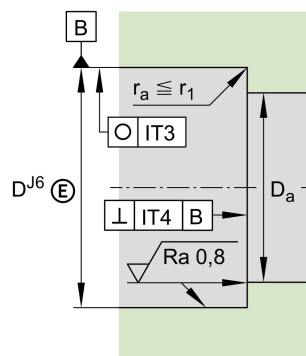
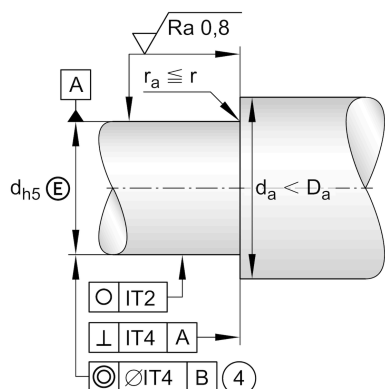
ZARN45105-TV

Axial/radial bearing

Schaeffler ID:
0016830980000

Needle roller/axial cylindrical roller bearings ZARN, double direction

Technical information



Main Dimensions & Performance Data

d	45 mm	Bore diameter
D	105 mm	Outside diameter
H	82 mm	Height
C _a	154,000 N	Basic dynamic load rating, axial
C _{0a}	405,000 N	Basic static load rating, axial
C _r	40,000 N	Basic dynamic load rating, radial
C _{0r}	82,000 N	Basic static load rating, radial
C _{ua}	37,500 N	Fatigue load limit, axial
C _{ur}	11,500 N	Fatigue load limit, radial
n _{G Oil}	3,300 1/min	Limiting speed for oil lubrication
n _{G Grease}	1,150 1/min	Limiting speed for grease lubrication
M _{RL}	3.5 Nm	Bearing friction torque
	3.034 kg	Weight

Dimensions

H ₁	53.5 mm	Height outer ring over wave washer
c _{aL}	4,000 N/μm	Rigidity axial
c _{kL}	2,100 Nm/mrad	Tilting stiffness
C	25 mm	Width, outer ring
M _m	23.7 kg * cm ²	Mass moment of inertia
	1 μm	Axial runout
D ₁	90 mm	Rip diameter shaft washer
radial	ZMA45/85	Locknut 1
axial	AM45	Locknut 2
M _A	150 Nm	Tightening torque nut
B	17.5 mm	Width, inner ring
	33,549 N	Preload force axial
r _{min}	0.3 mm	Minimum chamfer dimension
r _{1 min}	0.6 mm	Minimum chamfer dimension

Mounting dimensions

$D_{a \max}$	91 mm	Maximum diameter of housing shoulder
$d_{a \min}$	70 mm	Minimum diameter shaft shoulder