

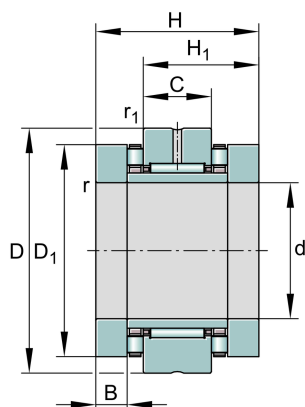
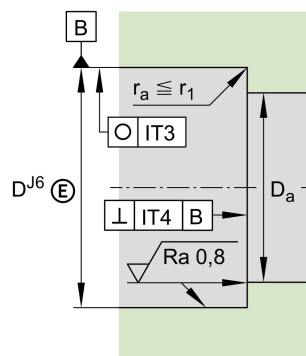
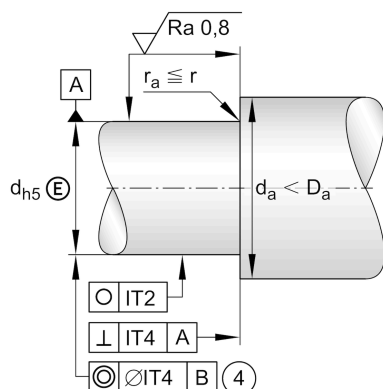
ZARN50110-TV

Axial/radial bearing

Schaeffler ID:
0016831440000

Needle roller/axial cylindrical roller bearings ZARN, double direction

Technical information



Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	110 mm	Outside diameter
H	82 mm	Height
C _a	172,000 N	Basic dynamic load rating, axial
C _{0a}	480,000 N	Basic static load rating, axial
C _r	46,500 N	Basic dynamic load rating, radial
C _{0r}	103,000 N	Basic static load rating, radial
C _{ua}	44,500 N	Fatigue load limit, axial
C _{ur}	12,700 N	Fatigue load limit, radial
n _{G Oil}	3,100 1/min	Limiting speed for oil lubrication
n _{G Grease}	1,100 1/min	Limiting speed for grease lubrication
M _{RL}	3.8 Nm	Bearing friction torque
	3.279 kg	Weight

Dimensions

H ₁	53.5 mm	Height outer ring over wave washer
c _{aL}	4,600 N/μm	Rigidity axial
c _{kL}	2,900 Nm/mrad	Tilting stiffness
C	25 mm	Width, outer ring
M _m	29.8 kg * cm ²	Mass moment of inertia
	1 μm	Axial runout
D ₁	95 mm	Rip diameter shaft washer
radial	ZMA50/92	Locknut 1
axial	AM50	Locknut 2
M _A	180 Nm	Tightening torque nut
B	17.5 mm	Width, inner ring
	36,224 N	Preload force axial
r _{min}	0.3 mm	Minimum chamfer dimension
r _{1 min}	0.6 mm	Minimum chamfer dimension

Mounting dimensions

$D_{a \max}$	96 mm	Maximum diameter of housing shoulder
$d_{a \min}$	75 mm	Minimum diameter shaft shoulder