

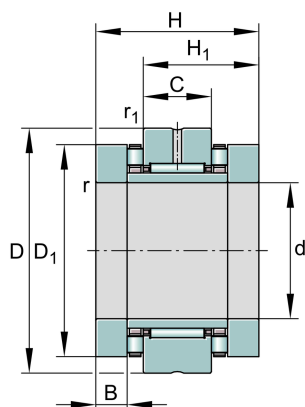
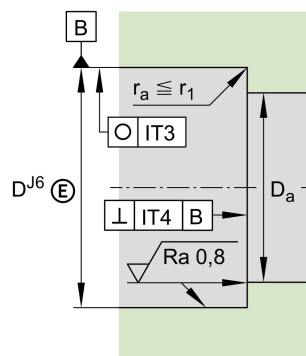
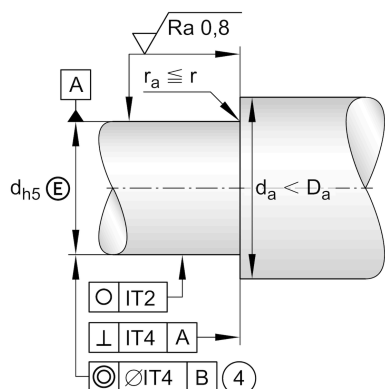
ZARN5090-TV

Axial/radial bearing

Schaeffler ID:
0016825550000

Needle roller/axial cylindrical roller bearings ZARN, double direction

Technical information



Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	90 mm	Outside diameter
H	60 mm	Height
C _a	90,000 N	Basic dynamic load rating, axial
C _{0a}	300,000 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}	28,000 N	Fatigue load limit, axial
C _{ur}	11,500 N	Fatigue load limit, radial
n _{G Oil}	3,600 1/min	Limiting speed for oil lubrication
n _{G Grease}	1,200 1/min	Limiting speed for grease lubrication
M _{RL}	2.2 Nm	Bearing friction torque
	1.446 kg	Weight

Dimensions

H ₁	42.5 mm	Height outer ring over wave washer
c _{aL}	4,800 N/μm	Rigidity axial
c _{kL}	2,470 Nm/mrad	Tilting stiffness
C	25 mm	Width, outer ring
M _m	8.42 kg * cm ²	Mass moment of inertia
	1 μm	Axial runout
D ₁	78 mm	Rip diameter shaft washer
radial	ZMA50/75	Locknut 1
axial	AM50	Locknut 2
M _A	85 Nm	Tightening torque nut
B	11.5 mm	Width, inner ring
	18,410 N	Preload force axial
r _{min}	0.3 mm	Minimum chamfer dimension
r _{1 min}	0.6 mm	Minimum chamfer dimension

Mounting dimensions

$D_{a \max}$	79 mm	Maximum diameter of housing shoulder
$d_{a \min}$	67 mm	Minimum diameter shaft shoulder