

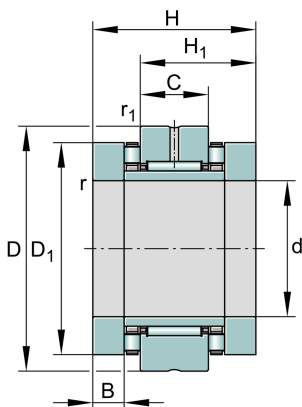
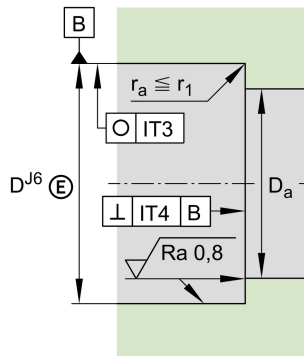
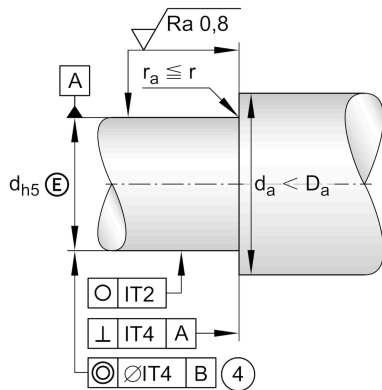
ZARN55115-TV

Axial/radial bearing

Schaeffler ID:
0016831950000

Needle roller/axial cylindrical roller bearings ZARN, double direction

Technical information



Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	115 mm	Outside diameter
H	82 mm	Height
C _a	177,000 N	Basic dynamic load rating, axial
C _{0a}	500,000 N	Basic static load rating, axial
C _r	44,000 N	Basic dynamic load rating, radial
C _{0r}	98,000 N	Basic static load rating, radial
C _{ua}	46,500 N	Fatigue load limit, axial
C _{ur}	13,800 N	Fatigue load limit, radial
n _{G Oil}	2,900 1/min	Limiting speed for oil lubrication
n _{G Grease}	1,000 1/min	Limiting speed for grease lubrication
M _{RL}	4 Nm	Bearing friction torque
	3,489 kg	Weight

Dimensions

H ₁	53.5 mm	Height outer ring over wave washer
c _{aL}	4,900 N/μm	Rigidity axial
c _{kL}	3,600 Nm/mrad	Tilting stiffness
C	25 mm	Width, outer ring
M _m	36.1 kg * cm ²	Mass moment of inertia
	1 μm	Axial runout
D ₁	100 mm	Rip diameter shaft washer
radial	ZMA55/98	Locknut 1
axial	AM55	Locknut 2
M _A	220 Nm	Tightening torque nut
B	17.5 mm	Width, inner ring
	39,807 N	Preload force axial
r _{min}	0.3 mm	Minimum chamfer dimension
r _{1 min}	0.6 mm	Minimum chamfer dimension

Mounting dimensions

$D_{a \max}$	101 mm	Maximum diameter of housing shoulder
$d_{a \min}$	85 mm	Minimum diameter shaft shoulder