

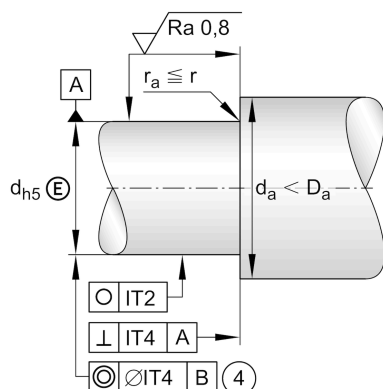
ZARN4090-L-TV

Axial/radial bearing

Schaeffler ID:
0016828730000

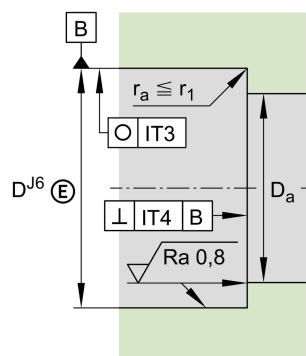
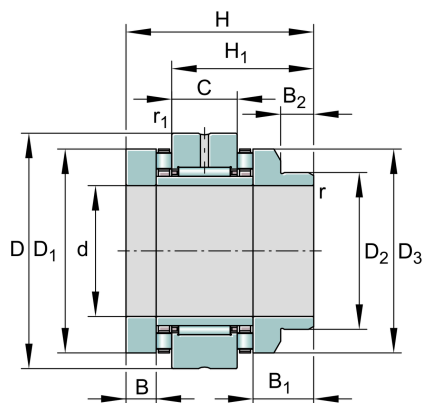
Needle roller/axial cylindrical roller bearings ZARN..-L, double direction, long shaft locating washer

Technical information



Main Dimensions & Performance Data

d	40 mm	Bore diameter
D	90 mm	Outside diameter
H	93 mm	Height
C_a	117,000 N	Basic dynamic load rating, axial
C_{0a}	315,000 N	Basic static load rating, axial
C_r	38,000 N	Basic dynamic load rating, radial
C_{0r}	74,000 N	Basic static load rating, radial
C_{ua}	27,000 N	Fatigue load limit, axial
C_{ur}	10,400 N	Fatigue load limit, radial
$n_{G\ Oil}$	3,700 1/min	Limiting speed for oil lubrication
$n_{G\ Grease}$	1,200 1/min	Limiting speed for grease lubrication
M_{RL}	2.5 Nm	Bearing friction torque
	2.353 kg	Weight



Dimensions

H ₁	68 mm	Height outer ring over wave washer
c _{axL}	3,800 N/μm	Rigidity axial
c _{kL}	1,800 Nm/mrad	Tilting stiffness
C	25 mm	Width, outer ring
M _m	15.5 kg * cm ²	Mass moment of inertia
	1 μm	Axial runout
D ₁	78 mm	Rip diameter shaft washer
D ₂	60 mm	Heeldiameter wave washer long
radial	ZMA40/75	Locknut 1
axial	AM40	Locknut 2
D ₃	78 mm	Outside diameter wave washer long
M _A	120 Nm	Tightening torque nut
B	16 mm	Width, inner ring
	29,834 N	Preload force axial
B ₁	34 mm	Width wave washer long
	60X80X8	Sealing ring
B ₂	14 mm	Width heel wave washer long
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}	58 mm	Minimum diameter shaft shoulder