

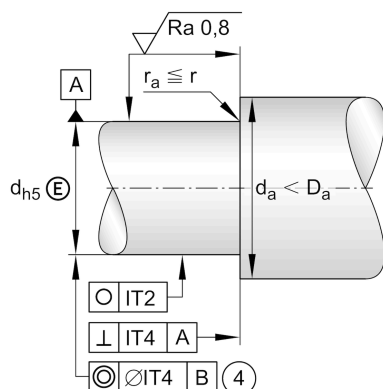
ZARN5090-L-TV

Axial/radial bearing

Schaeffler ID:
0016825980000

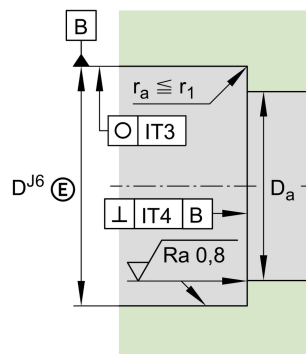
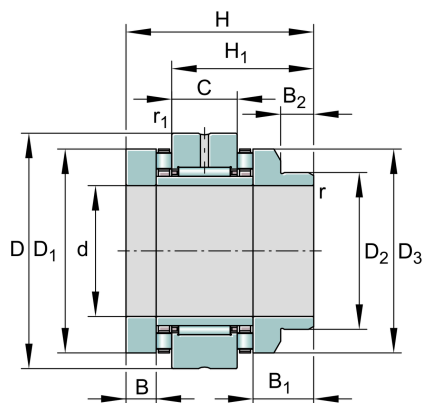
Needle roller/axial cylindrical roller bearings ZARN..-L, double direction, long shaft locating washer

Technical information



Main Dimensions & Performance Data

d	50 mm	Bore diameter
D	90 mm	Outside diameter
H	78 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
	1.608 kg	Weight



Dimensions

H_1	60.5 mm	Height outer ring over wave washer
c_{aL}	4,800 N/ μ m	Rigidity axial
c_{kL}	2,470 Nm/mrad	Tilting stiffness
C	25 mm	Width, outer ring
M_m	10.46 kg * cm ²	Mass moment of inertia
	1 μ m	Axial runout
D_1	78 mm	Rip diameter shaft washer
D_2	60 mm	Heeldiameter wave washer long
radial	ZMA50/75	Locknut 1
axial	AM50	Locknut 2
D_3	78 mm	Outside diameter wave washer long
M_A	85 Nm	Tightening torque nut
B	11.5 mm	Width, inner ring
	18,410 N	Preload force axial
B_1	29.5 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