

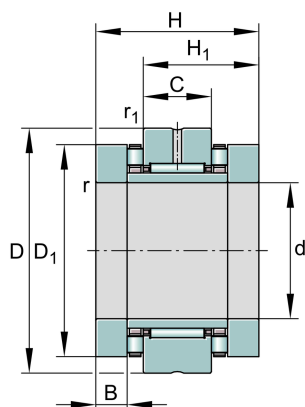
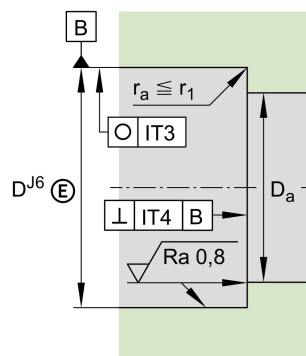
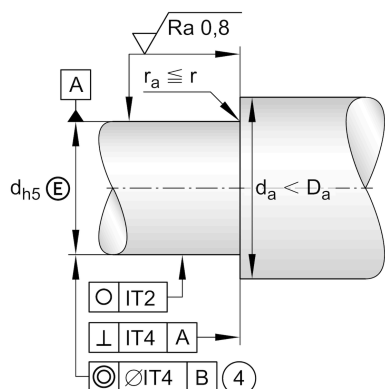
## ZARN3080-TV

Axial/radial bearing

Schaeffler ID:  
0016827680000

Needle roller/axial cylindrical roller bearings ZARN, double direction

### Technical information



### Main Dimensions & Performance Data

d	30 mm	Bore diameter
D	80 mm	Outside diameter
H	66 mm	Height
C <sub>a</sub>	107,000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	265,000 N	Basic static load rating, axial
C <sub>r</sub>	26,000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	47,000 N	Basic static load rating, radial
C <sub>ua</sub>	22,900 N	Fatigue load limit, axial
C <sub>ur</sub>	6,800 N	Fatigue load limit, radial
n <sub>G Oil</sub>	4,400 1/min	Limiting speed for oil lubrication
n <sub>G Grease</sub>	1,300 1/min	Limiting speed for grease lubrication
M <sub>RL</sub>	2.1 Nm	Bearing friction torque
	1.53 kg	Weight

### Dimensions

H <sub>1</sub>	43 mm	Height outer ring over wave washer
c <sub>aL</sub>	3,300 N/μm	Rigidity axial
c <sub>kL</sub>	1,100 Nm/mrad	Tilting stiffness
C	20 mm	Width, outer ring
M <sub>m</sub>	6.53 kg * cm <sup>2</sup>	Mass moment of inertia
	1 μm	Axial runout
D <sub>1</sub>	68 mm	Rip diameter shaft washer
radial	ZMA30/65	Locknut 1
axial	AM30	Locknut 2
M <sub>A</sub>	75 Nm	Tightening torque nut
B	14 mm	Width, inner ring
	24,287 N	Preload force axial
r <sub>min</sub>	0.3 mm	Minimum chamfer dimension
r <sub>1 min</sub>	0.6 mm	Minimum chamfer dimension

**Mounting dimensions**

$D_{a \max}$	69 mm	Maximum diameter of housing shoulder
$d_{a \min}$	52 mm	Minimum diameter shaft shoulder