

**ZARN4580-TV**

Needle roller/axial cylindrical roller bearing

Needle roller/axial cylindrical roller bearings  
ZARN, double direction

## Technical information



## Your current product variant

Cage	TV	Plastic Cage made from PA66
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## Main Dimensions &amp; Performance Data

d	45 mm	Bore diameter
D	80 mm	Outside diameter
H	60 mm	Hight
C <sub>a</sub>	61.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	177.000 N	Basic static load rating, axial
C <sub>r</sub>	38.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	74.000 N	Basic static load rating, radial
C <sub>ua</sub>	15.500 N	Fatigue load limit, axial
C <sub>ur</sub>	10.400 N	Fatigue load limit, radial
n <sub>G Oil</sub>	4.000 1/min	Limiting speed for oil lubrication
n <sub>G Grease</sub>	1.500 1/min	Limiting speed for grease lubrication
M <sub>RL</sub>	1,2 Nm	Bearing friction torque
≈m	1,134 kg	Weight

## Mounting dimensions

D <sub>a max</sub>	71 mm	Maximum diameter of housing shoulder
d <sub>a min</sub>	60 mm	Minimum diameter shaft shoulder



## Dimensions

H <sub>1</sub>	42,5 mm	Height outer ring over wave washer
C	25 mm	Width, outer ring
D <sub>1</sub>	70 mm	Rip diameter shaft washer
B	11,5 mm	Width, inner ring
r <sub>min</sub>	0,3 mm	Minimum chamfer dimension
r <sub>1 min</sub>	0,6 mm	Minimum chamfer dimension

## Temperature range

T <sub>min</sub>	-30 °C	Operating temperature min.
T <sub>max</sub>	120 °C	Operating temperature max.

## Additional information

c <sub>aL</sub>	3.000 N/μm	Rigidity axial
c <sub>kL</sub>	1.340 Nm/mrad	Tilting stiffness
M <sub>m</sub>	5,33 kg*cm <sup>2</sup>	Mass moment of inertia
	1 μm	Axial runout
radial	ZMA45/68	Recommended INA precision locknut for radial locking (not included)
axial	AM45	Recommended INA precision locknut for axial locking (not included)
M <sub>A</sub>	65 Nm	Tightening torque nut
	15.112 N	Preload force axial



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed