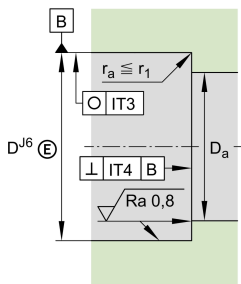


**ZARN4090-TV**

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	40 mm	Bore diameter
D	90 mm	Outside diameter
H	75 mm	Hight
C <sub>a</sub>	117.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	315.000 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>	27.000 N	Fatigue load limit, axial
C <sub>ur</sub>	10.400 N	Fatigue load limit, radial
n <sub>G Oil</sub>	3.700 1/min	Limiting speed for oil lubrication
n <sub>G Grease</sub>	1.200 1/min	Limiting speed for grease lubrication
M <sub>RL</sub>	2,5 Nm	Bearing friction torque
≈m	2,094 kg	Weight

## Mounting dimensions

D <sub>a max</sub>	79 mm	Maximum diameter of housing shoulder
d <sub>a min</sub>	65 mm	Minimum diameter shaft shoulder



### Dimensions

H <sub>1</sub>	50 mm	Height outer ring over wave washer
C	25 mm	Width, outer ring
D <sub>1</sub>	78 mm	Rip diameter shaft washer
B	16 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>	3.800 N/μm	Rigidity axial
c <sub>kL</sub>	1.800 Nm/mrad	Tilting stiffness
M <sub>m</sub>	13,3 kg*cm <sup>2</sup>	Mass moment of inertia
	1 μm	Axial runout
radial	ZMA40/75	Recommended INA precision locknut for radial locking (not included)
axial	AM40	Recommended INA precision locknut for axial locking (not included)
M <sub>A</sub>	120 Nm	Tightening torque nut
	29.834 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