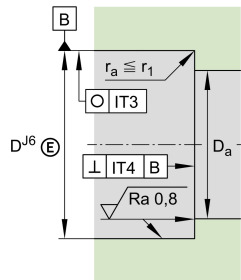


**ZARN3080-L-TV**

## Needle roller/axial cylindrical roller bearing

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

## Technical information



## Your current product variant

Cage	TV	Plastic Cage made from PA66
Locating Feature , bearing outer ring	L	Stepped shaft locating washer extended on one side

## Main Dimensions &amp; Performance Data

d	30 mm	Bore diameter
D	80 mm	Outside diameter
H	82 mm	Hight
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
≈m	1,711 kg	Weight

## Mounting dimensions

D <sub>a max</sub>	69 mm	Maximum diameter of housing shoulder
d <sub>a min</sub>	50 mm	Minimum diameter shaft shoulder



## Dimensions

H <sub>1</sub>	4,359 mm	Height outer ring over wave washer
C	20 mm	Width, outer ring
D <sub>1</sub>	68 mm	Rip diameter shaft washer
D <sub>2</sub>	52 mm	Heeldiameter wave washer long
D <sub>3</sub>	66 mm	Outside diameter wave washer long
B	14 mm	Width, inner ring
B <sub>1</sub>	30 mm	Width wave washer long
B <sub>2</sub>	13 mm	Width heel wave washer long
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>	3.300 N/μm	Rigidity axial
c <sub>kL</sub>	1.100 Nm/mrad	Tilting stiffness
M <sub>m</sub>	7,43 kg*cm <sup>2</sup>	Mass moment of inertia
	1 μm	Axial runout
radial	ZMA30/65	Recommended INA precision locknut for radial locking (not included)
axial	AM30	Recommended INA precision locknut for axial locking (not included)
M <sub>A</sub>	75 Nm	Tightening torque nut
	24.287 N	Required locknut force
	52X68X8	Rotary shaft seal to DIN 3760 (not included)



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Grease Lubrication



Oil Lubrication



Not sealed