

**ZARN1545-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	15 mm	Bore diameter
D	45 mm	Outside diameter
H	53 mm	Hight
C <sub>a</sub>	24.900 N	Basic dynamic load rating, axial
C <sub>0a</sub>	53.000 N	Basic static load rating, axial
C <sub>r</sub>	13.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	17.500 N	Basic static load rating, radial
C <sub>ua</sub>	7.500 N	Fatigue load limit, axial
C <sub>ur</sub>	2.650 N	Fatigue load limit, radial
n <sub>G Oil</sub>	8.500 1/min	Limiting speed for oil lubrication
n <sub>G Grease</sub>	2.200 1/min	Limiting speed for grease lubrication
M <sub>RL</sub>	0,35 Nm	Bearing friction torque
≈m	306,1 g	Weight

## Mounting dimensions

D <sub>a max</sub>	36 mm	Maximum diameter of housing shoulder
d <sub>a min</sub>	22 mm	Minimum diameter shaft shoulder



## Dimensions

H <sub>1</sub>	41 mm	Height outer ring over wave washer
C	16 mm	Width, outer ring
D <sub>1</sub>	35 mm	Rip diameter shaft washer
D <sub>2</sub>	24 mm	Heeldiameter wave washer long
D <sub>3</sub>	34 mm	Outside diameter wave washer long
B	7,5 mm	Width, inner ring
B <sub>1</sub>	20,5 mm	Width wave washer long
B <sub>2</sub>	11 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>	1.400 N/μm	Rigidity axial
c <sub>kL</sub>	110 Nm/mrad	Tilting stiffness
M <sub>m</sub>	274 kg*cm <sup>2</sup>	Mass moment of inertia
	1 μm	Axial runout
radial	ZMA15/33	Recommended INA precision locknut for radial locking (not included)
axial	AM15	Recommended INA precision locknut for axial locking (not included)
M <sub>A</sub>	10 Nm	Tightening torque nut
	6.506 N	Required locknut force
	24X35X7	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