

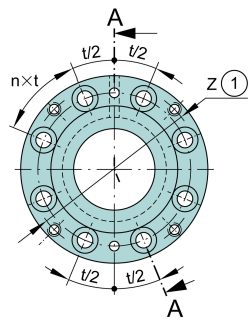


### ZARF40100-TV

Needle roller/axial cylindrical roller bearing

Needle roller/axial cylindrical roller bearings  
ZARF, double direction, for screw mounting

## Technical information



### Your current product variant

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

d	40 mm	Bore diameter
D	100 mm	Outside diameter
H	54 mm	Height
C <sub>a</sub>	59.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	163.000 N	Basic static load rating, axial
C <sub>r</sub>	27.500 N	Basic dynamic load rating, radial
C <sub>0r</sub>	53.000 N	Basic static load rating, radial
C <sub>ua</sub>	14.200 N	Fatigue load limit, axial
C <sub>ur</sub>	7.600 N	Fatigue load limit, radial
n <sub>G Oil</sub>	4.400 1/min	Limiting speed for oil lubrication
n <sub>G Grease</sub>	1.600 1/min	Limiting speed for grease lubrication
M <sub>RL</sub>	1 Nm	Bearing friction torque
≈m	1,219 kg	Weight

### Mounting dimensions

D <sub>a max</sub>	66 mm	Maximum diameter of housing shoulder
d <sub>a min</sub>	55 mm	Minimum diameter shaft shoulder
t <sub>1</sub>	0,2 mm	Position bore in the housing



## Dimensions

H <sub>1</sub>	35 mm	Height outer ring over wave washer
C	18 mm	Width, outer ring
C <sub>1</sub>	10 mm	Distance to lubrication hole
D <sub>1</sub>	65 mm	Rip diameter shaft washer
B	11 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
d <sub>1</sub>	3,2 mm	Diameter lubrication hole
J	80 mm	Pitch circle diameter (holes)
n	8	Number of screwing holes
n x t	45 °	Split

## Temperature range






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



### Additional information

$c_{aL}$	2.800 N/ $\mu$ m	Rigidity axial
$c_{kL}$	1.030 Nm/mrad	Tilting stiffness
$M_m$	3,78 kg*cm <sup>2</sup>	Mass moment of inertia
	1 $\mu$ m	Axial runout
radial	ZMA40/62	Recommended INA precision locknut for radial locking (not included)
axial	AM40	Recommended INA precision locknut for axial locking (not included)
$M_A$	55 Nm	Tightening torque nut
	14.240 N	Required locknut force
	M8	Screw size
$n_a$	8	Number of screws
na x ta	45 °	Division (screwing holes)

### Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed