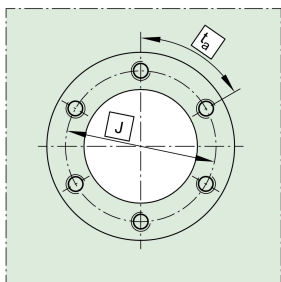
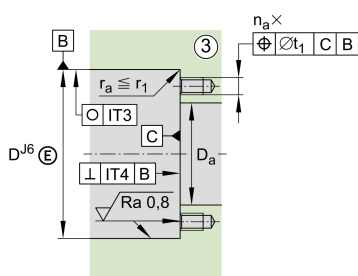
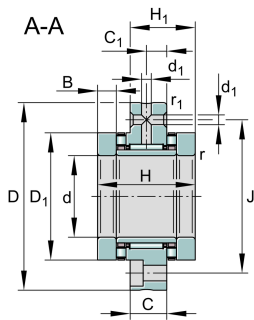


**ZARF3590-TV**

## 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 &amp; Performance Data

d	35 mm	Bore diameter
D	90 mm	Outside diameter
H	54 mm	Hight
C <sub>a</sub>	56.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	148.000 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>	12.900 N	Fatigue load limit, axial
C <sub>ur</sub>	6.800 N	Fatigue load limit, radial
n <sub>G Oil</sub>	4.800 1/min	Limiting speed for oil lubrication
n <sub>G Grease</sub>	1.700 1/min	Limiting speed for grease lubrication
M <sub>RL</sub>	0,9 Nm	Bearing friction torque
≈m	1,036 kg	Weight

## Mounting dimensions

D <sub>a max</sub>	61 mm	Maximum diameter of housing shoulder
d <sub>a min</sub>	50 mm	Minimum diameter shaft shoulder
t <sub>1</sub>	0,1 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>	60 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	73 mm	Pitch circle diameter (holes)
n	12	Number of screwing holes
n x t	30 °	Split

## Temperature range







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



### Additional information

$c_{aL}$	2.600 N/ $\mu$ m	Rigidity axial
$c_{kL}$	740 Nm/mrad	Tilting stiffness
$M_m$	2,8 kg*cm <sup>2</sup>	Mass moment of inertia
	1 $\mu$ m	Axial runout
radial	ZMA35/58	Recommended INA precision locknut for radial locking (not included)
axial	AM35/58	Recommended INA precision locknut for axial locking (not included)
$M_A$	40 Nm	Tightening torque nut
	12.143 N	Required locknut force
	M6	Screw size
$n_a$	12	Number of screws
na x ta	30 °	Division (screwing holes)

### Characteristics

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