

**ZARF70160-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	70 mm	Bore diameter
D	160 mm	Outside diameter
H	82 mm	Height
C _a	201.000 N	Basic dynamic load rating, axial
C _{0a}	630.000 N	Basic static load rating, axial
C _r	56.000 N	Basic dynamic load rating, radial
C _{0r}	119.000 N	Basic static load rating, radial
C _{ua}	58.000 N	Fatigue load limit, axial
C _{ur}	16.100 N	Fatigue load limit, radial
n _{G Oil}	2.400 1/min	Limiting speed for oil lubrication
n _{G Grease}	800 1/min	Limiting speed for grease lubrication
M _{RL}	4,8 Nm	Bearing friction torque
≈m	4,87 kg	Weight

Mounting dimensions

D _{a max}	116 mm	Maximum diameter of housing shoulder
d _{a min}	100 mm	Minimum diameter shaft shoulder
t ₁	0,2 mm	Position bore in the housing



Dimensions

H ₁	51 mm	Height outer ring over wave washer
C	22,5 mm	Width, outer ring
C ₁	12,5 mm	Distance to lubrication hole
D ₁	115 mm	Rip diameter shaft washer
B	17,5 mm	Width inner ring
r _{min}	0,3 mm	Minimum chamfer dimension
r _{1 min}	0,6 mm	Minimum chamfer dimension
d ₁	6 mm	Diameter lubrication hole
J	133 mm	Pitch circle diameter (holes)
n	12	Number of screwing holes
n x t	30 °	Split

Temperature range







T _{min}	-30 °C	Operating temperature min.
T _{max}	120 °C	Operating temperature max.



Additional information

c_{aL}	5.800 N/ μ m	Rigidity axial
c_{kL}	6.000 Nm/mrad	Tilting stiffness
M_m	62,2 kg*cm ²	Mass moment of inertia
	1 μ m	Axial runout
radial	ZMA70/110	Recommended INA precision locknut for radial locking (not included)
axial	AM70	Recommended INA precision locknut for axial locking (not included)
M_A	330 Nm	Tightening torque nut
	46.786 N	Required locknut force
	M10	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