



Needle roller/axial cylindrical roller bearings ZARN50110-TV (Series ZARN)

double direction

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all the guidelines in these overview pages. Further information is given on many products under the menu item "Description". You can also order comprehensive information via the Catalogue ordering system (<http://www.ina.de/content.ina.de/en/mediathek/library/library.jsp>) or by telephone on +49 (91 32) 82 - 28 97.

| | |
|-----------------------|---|
| d | 50 mm |
| D | 110 mm |
| H | 82 mm |
| B | 17,5 mm |
| C | 25 mm |
| D ₁ | 95 mm |
| D _a max | 96 mm Mounting dimensions If rotary shaft seals are used, the outside diameter of the sealing ring must be taken into consideration. |
| d _a min | 75 mm Mounting dimensions If rotary shaft seals are used, the outside diameter of the sealing ring must be taken into consideration. |
| H ₁ | 53,5 mm |
| r ₁ min | 0,6 mm |
| r _{min} | 0,3 mm |
| m | 3,3 kg Mass |
| C _a | 172000 N Basic dynamic load rating, axial |
| C _{0a} | 480000 N Basic static load rating, axial |
| C _r | 42000 N Basic dynamic load rating, radial |
| C _{0r} | 90000 N Basic static load rating, radial |
| n _G 0i | 3100 1/min Limiting speed for oil lubrication (valid only with adequate oil cooling) |
| n _G | 1100 1/min Limiting speed for grease lubrication |

| | |
|-----------------|--|
| Fett | |
| MR _L | 3,8 Nm Bearing frictional torque |
| ca _L | 4600 N/μm Axial rigidity |
| ck _L | 2900 Nm/mrad Tilting rigidity |
| M _m | 29,8 kg x cm ² Mass moment of inertia for rotating inner ring |
| | 1 μm Axial runout |
| | The axial runout data for screw drive bearing arrangements are based on the rotating inner ring. |
| | ZMA50/92 Designation of recommended INA locknut |
| | AM50 Designation of recommended INA locknut |
| MA | 180 Nm Tightening torque |
| | Only valid in conjunction with INA precision locknuts |
| | 37109 N Axial preload force |
| | Locknuts not included in delivery. |



