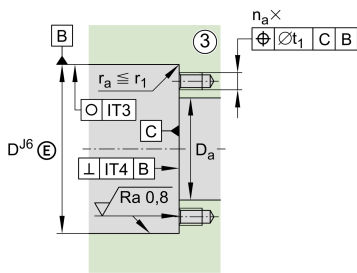
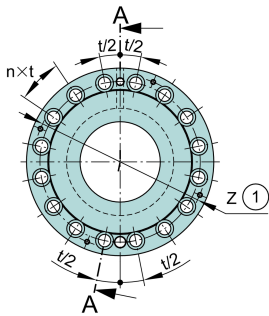
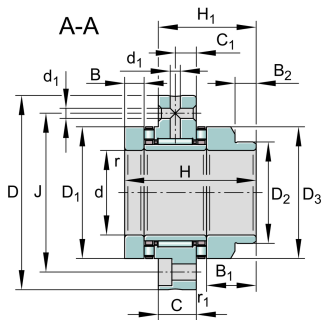


**ZARF90210-L-TV**

Needle roller/axial cylindrical roller bearing

Needle roller/axial cylindrical roller bearings  
ZARF..-L, double direction, for screw  
mounting, long shaft locating washer

Informacje techniczne

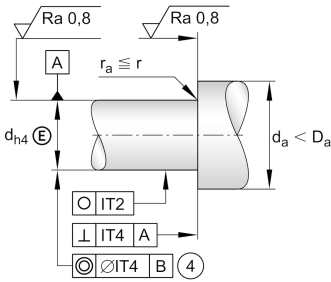


Twoja aktualna wersja produktu

|                                          |    |                                                       |
|------------------------------------------|----|-------------------------------------------------------|
| Cage                                     | TV | Plastic Cage made from PA66                           |
| Locating Feature , bearing<br>outer ring | L  | Stepped shaft locating washer extended<br>on one side |

Main Dimensions & Performance Data

|                       |             |                                       |
|-----------------------|-------------|---------------------------------------|
| d                     | 90 mm       | Bore diameter                         |
| D                     | 210 mm      | Outside diameter                      |
| H                     | 135 mm      | Hight                                 |
| C <sub>a</sub>        | 325.000 N   | Basic dynamic load rating, axial      |
| C <sub>0a</sub>       | 1.030.000 N | Basic static load rating, axial       |
| C <sub>r</sub>        | 98.000 N    | Basic dynamic load rating, radial     |
| C <sub>0r</sub>       | 210.000 N   | Basic static load rating, radial      |
| C <sub>ua</sub>       | 95.000 N    | Fatigue load limit, axial             |
| C <sub>ur</sub>       | 29.000 N    | Fatigue load limit, radial            |
| n <sub>G</sub> Oil    | 1.800 1/min | Limiting speed for oil lubrication    |
| n <sub>G</sub> Grease | 700 1/min   | Limiting speed for grease lubrication |
| M <sub>RL</sub>       | 10,5 Nm     | Bearing friction torque               |
| ≈m                    | 15,076 kg   | Masa                                  |



Mounting dimensions

|         |        |                                      |
|---------|--------|--------------------------------------|
| D a max | 161 mm | Maximum diameter of housing shoulder |
| d a min | 125 mm | Minimum diameter shaft shoulder      |
| t 1     | 0,4 mm | Position bore in the housing         |

Dimensions

|         |         |                                    |
|---------|---------|------------------------------------|
| H 1     | 94,5 mm | Height outer ring over wave washer |
| C       | 32 mm   | Width, outer ring                  |
| C 1     | 17,5 mm | Distance to lubrication hole       |
| D 1     | 160 mm  | Rip diameter shaft washer          |
| D 2     | 130 mm  | Heeldiameter wave washer long      |
| D 3     | 158 mm  | Outside diameter wave washer long  |
| B       | 22,5 mm | Width, wave washer                 |
| B 1     | 47,5 mm | Width wave washer long             |
| B 2     | 18 mm   | Width heel wave washer long        |
| r min   | 0,3 mm  | Minimum chamfer dimension          |
| r 1 min | 1 mm    | Minimum chamfer dimension          |
| d 1     | 8 mm    | Diameter lubrication hole          |
| J       | 180 mm  | Pitch circle diameter (holes)      |
| n       | 16      | Number of screwing holes           |
| n x t   | 22,5 °  | Splīt                              |

Temperature range

|       |        |                            |
|-------|--------|----------------------------|
| T min | -30 °C | Operating temperature min. |
| T max | 120 °C | Operating temperature max. |



Additional information

|          |                  |                                                                     |
|----------|------------------|---------------------------------------------------------------------|
| $c_{aL}$ | 7.700 N/ $\mu$ m | Rigidity axial                                                      |
| $c_{kL}$ | 14.500 Nm/mrad   | Tilting stiffness                                                   |
| $M_m$    | 372 kg*cm2       | Mass moment of inertia                                              |
|          | 2 $\mu$ m        | Axial runout                                                        |
| radial   | ZMA90/155        | Recommended INA precision locknut for radial locking (not included) |
| axial    | AM90             | Locknut 2                                                           |
| $M_A$    | 960 Nm           | Tightening torque nut                                               |
|          | 100.669 N        | Preload force axial                                                 |
|          | 130X160X12       | Sealing ring                                                        |
|          | M12              | Screw size                                                          |
| $n_a$    | 16               | Number of screws                                                    |
| na x ta  | 22,5 °           | Division (screwing holes)                                           |

Właściwości

- 

Obciążenie promieniowe
- 

Obciążenie osiowe jednokierunkowe
- 

Obciążenie osiowe dwukierunkowe
- 

Smarowanie smarem
- 

Smarowanie olejem
- 

Bez uszczelnienia