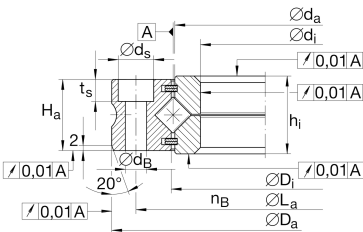


XV90

Crossed roller bearing

Crossed roller bearings without gear teeth,  
lamellar seals on both sides

Informacje techniczne



Main Dimensions & Performance Data

|                |           |                                  |
|----------------|-----------|----------------------------------|
| d <sub>1</sub> | 90 mm     | Bore Diameter                    |
|                | 0,016 mm  | Bore diameter upper tolerance    |
|                | -0,006 mm | Bore diameter lower tolerance    |
| D <sub>a</sub> | 145 mm    | Outside Diameter                 |
|                | 0 mm      | Outside diameter upper tolerance |
|                | -0,025 mm | Outside diameter lower tolerance |
| h <sub>i</sub> | 19 mm     | Height inner ring                |
| ≈m             | 1,197 kg  | Masa                             |

Dimensions

|                |          |                                                         |
|----------------|----------|---------------------------------------------------------|
| D <sub>i</sub> | 105,5 mm | Inner diameter outer ring                               |
| d <sub>a</sub> | 104,5 mm | Outer diameter inner ring                               |
| H <sub>a</sub> | 18 mm    | Width outer ring                                        |
| L <sub>a</sub> | 130 mm   | Pitch circle diameter fixing holes                      |
| n <sub>B</sub> | 16       | Quantity of fixed holes evenly around the circumference |
| d <sub>B</sub> | 6,6 mm   | Diameter fixing hole outer ring                         |
| d <sub>S</sub> | 11 mm    | Countersunk diameter of fixing holes                    |
| t <sub>S</sub> | 6,4 mm   | Countersunk depth of fixing holes                       |



Temperature range

|                  |        |                            |
|------------------|--------|----------------------------|
| T <sub>min</sub> | -30 °C | Operating temperature min. |
| T <sub>max</sub> | 80 °C  | Operating temperature max. |

Calculation factors

|                          |           |                                                             |
|--------------------------|-----------|-------------------------------------------------------------|
|                          | 0,01 mm   | Running accuracy, radial                                    |
|                          | 0,01 mm   | Running accuracy, axial                                     |
| C <sub>a</sub>           | 35.000 N  | Basic dynamic load rating, axial                            |
| C <sub>0a</sub>          | 111.000 N | Basic static load rating, axial                             |
| C <sub>r</sub>           | 25.000 N  | Basic dynamic load rating, radial (for radial load only)    |
| C <sub>0r</sub>          | 54.000 N  | Basic static load rating, radial (for radial load only)     |
| F <sub>r zul.</sub>      | 15.300 N  | Max. radial load screws (frictional contact)                |
| N <sub>G</sub><br>Grease | 728 1/min | Limiting speed for grease lubrication with normal clearance |
| N <sub>G</sub><br>Grease | 364 1/min | Limiting speed for grease lubrication with preload          |

Właściwości

-  Obciążenie promieniowe
-  Obciążenie osiowe jednokierunkowe
-  Obciążenie osiowe dwukierunkowe
-  Momenty względem wszystkich osi
-  Smarowanie smarem
-  Uszczelnienie dwustronne
-  Mała przestrzeń zabudowy