

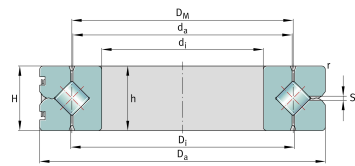


SX011824-A-VSP

Crossed roller bearing

Crossed roller bearingsdimension series 18 to
DIN 616

Technical information



Your current product variant

| | | |
|---------|-----|--------------------------|
| Preload | VSP | Bearing preload Standard |
|---------|-----|--------------------------|

Main Dimensions & Performance Data

| | | |
|----------------|-----------|----------------------------------|
| d _i | 120 mm | Bore Diameter |
| | 0.004 mm | Bore diameter upper tolerance |
| | -0.018 mm | Bore diameter lower tolerance |
| D _a | 150 mm | Outside Diameter |
| | 0 mm | Outside diameter upper tolerance |
| | -0.025 mm | Outside diameter lower tolerance |
| H | 16 mm | Height of the assembled bearing |
| h _i | 16 mm | heigth inner ring |
| | 0.06 mm | Width upper tolerance |
| | -0.06 mm | Width lower tolerance |
| ≈m | 0.698 kg | Weight |



Dimensions

| | | |
|------------------|----------|---|
| D _i | 135.6 mm | Inner diameter outer ring |
| D _M | 135 mm | rolling element pitch circle diameter |
| d _a | 134.4 mm | outer diameter inner ring |
| h | 16 mm | height of individual ring |
| | 0 mm | Height of individual ring upper tolerance |
| | -0.01 mm | Height of individual ring lower tolerance |
| r _{min} | 1 mm | chamfer dimension |
| S | 1.5 mm | diameter of lubrication hole |

Temperature range








| | | |
|------------------|--------|----------------------------|
| T _{min} | -30 °C | Operating temperature min. |
| T _{max} | 80 °C | Operating temperature max. |

Calculation factors

| | | |
|-----------------------|-----------|--|
| | 0.01 mm | Running accuracy, radial |
| | 0.01 mm | Running accuracy, axial |
| VSP _{min} | 0.005 mm | Minimum bearing preload |
| VSP _{max} | 0.02 mm | Maximum bearing preload |
| C _a | 39,500 N | Basic dynamic load rating, axial |
| C _{0a} | 140,000 N | Basic static load rating, axial |
| C _r | 28,000 N | Basic dynamic load rating, radial (for radial load only) |
| C _{0r} | 69,000 N | Basic static load rating, radial (for radial load only) |
| N _{G oil} | 565 1/min | Limiting speed for oil lubrication with preload |
| N _{G Grease} | 280 1/min | Limiting speed for grease lubrication with preload |
| | 61824 | Dimensions identical to ISO dimension series 18 |



Characteristics

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