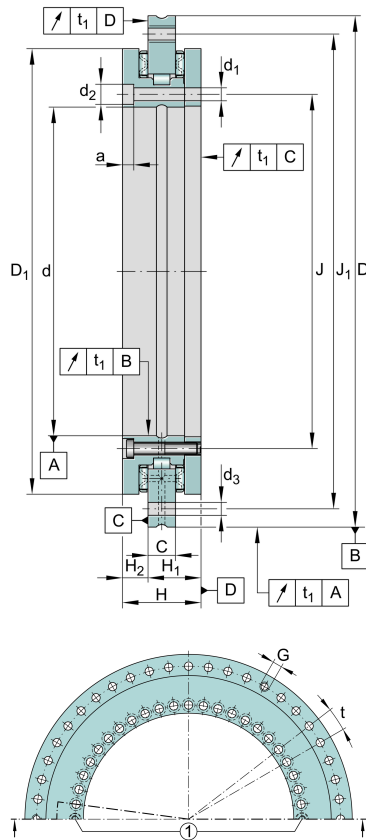


**YRT50**

Axial/radial roller bearing

Axial/radial bearings YRT, double direction,
for screw mounting

Technical information



Main Dimensions & Performance Data

| | | |
|-----------------|-----------|------------------------------------|
| d | 50 mm | Bore diameter |
| | 0 mm | Bore diameter upper tolerance |
| | -0,008 mm | Bore diameter lower tolerance |
| D | 126 mm | Outside diameter |
| | 0 mm | Outside diameter upper tolerance |
| | -0,011 mm | Outside diameter lower tolerance |
| H | 30 mm | Height |
| C _r | 28.500 N | Basic dynamic load rating, radial |
| C _{0r} | 49.500 N | Basic static load rating, radial |
| C _a | 56.000 N | Basic dynamic load rating, axial |
| C _{0a} | 280.000 N | Basic static load rating, axial |
| n _G | 440 1/min | Limiting speed |
| M _R | 2,5 Nm | Bearing friction torque at 5 1/min |
| ≈m | 1,61 kg | Weight |



Mounting dimensions

| | | |
|----------------|--------|---|
| J | 63 mm | Pitch circle diameter fixing holes in inner ring |
| J ₁ | 116 mm | Pitch circle diameter fixing holes in outer ring |
| d ₁ | 5,6 mm | Fixing holes diameter inner ring |
| | 10 | Quantity of fixing holes inner ring |
| d ₃ | 5,6 mm | Fixing holes diameter outer ring |
| | 12 | Quantity of fixing holes outer ring |
| n | 12 | Pitch quantity |
| t | 30 ° | Pitch separation angle |
| M _A | 8,5 Nm | Screw tightening torque |
| | 2 | Quantity of retaining screws |
| t ₁ | 2 μm | Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction. |

Dimensions

| | | |
|--------------------|-----------|--|
| H ₁ | 20 mm | Height contact face outer ring |
| | 0,025 mm | Height contact face outerring H1 upper tolerance |
| | -0,025 mm | Height contact face outerring H1 lower tolerance |
| H ₂ | 10 mm | Height contact face outer ring |
| | 0,02 mm | Height contact face outerring H2 upper tolerance |
| | -0,02 mm | Height contact face outerring H2 lower tolerance |
| D _{1 max} | 105 mm | Maximum diameter inner ring |
| C | 10 mm | Width of outer ring |

Temperature range







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



Additional information

| | | |
|----------|------------------|---|
| c_{aL} | 1.300 N/ μ m | Axial rigidity of bearing position |
| c_{rL} | 1.100 N/ μ m | Radial rigidity of bearing position |
| c_{kL} | 1.250 Nm/mrad | Tilting rigidity of bearing position |
| c_{aW} | 6.200 N/ μ m | Axial rigidity of rolling element set |
| c_{rW} | 1.500 N/ μ m | Radial rigidity of rolling element set |
| c_{kW} | 5.900 Nm/mrad | Tilting rigidity of rolling element set |

Characteristics

-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Moments about all axes
-  Grease Lubrication
-  Not sealed