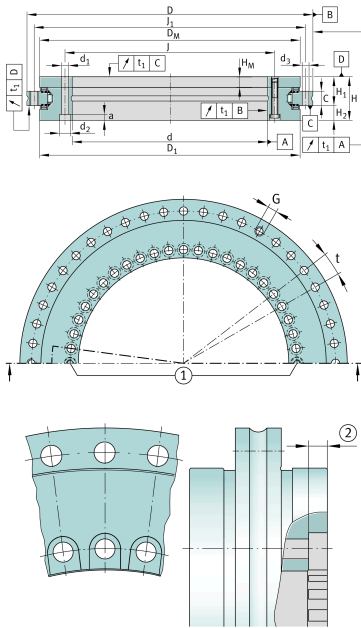


**YRTSM325**

Axial/radial roller bearing

Axial/radial bearings, double direction, screw mounting, for higher speeds, with integrated angular measuring system

Technical information

**Main Dimensions & Performance Data**

| | | |
|-----------------|-------------|-----------------------------------|
| d | 325 mm | Bore diameter |
| | 0 mm | Bore diameter upper tolerance |
| | -0,023 mm | Bore diameter lower tolerance |
| D | 450 mm | Outside diameter |
| | 0 mm | Outside diameter upper tolerance |
| | -0,023 mm | Outside diameter lower tolerance |
| H | 60 mm | Height |
| C _r | 109.000 N | Basic dynamic load rating, radial |
| C _{0r} | 320.000 N | Basic static load rating, radial |
| C _a | 191.000 N | Basic dynamic load rating, axial |
| C _{0a} | 1.260.000 N | Basic static load rating, axial |
| n _G | 760 1/min | Limiting speed |
| ≈m | 27 kg | Weight |



Mounting dimensions

| | | |
|----------------|--------|---|
| J | 342 mm | Pitch circle diameter fixing holes in inner ring |
| J ₁ | 430 mm | Pitch circle diameter fixing holes in outer ring |
| d ₁ | 9,3 mm | Fixing holes diameter inner ring |
| d ₂ | 15 mm | Counterbore diameter of fixing holes |
| a | 8,2 mm | Counterbore depth of fixing holes |
| | 34 | Quantity of fixing holes inner ring |
| d ₃ | 9,3 mm | Fixing holes diameter outer ring |
| | 33 | Quantity of fixing holes outer ring |
| n | 36 | Pitch quantity |
| t | 10 ° | Pitch separation angle |
| G | M12 | Threaded extraction hole |
| | 3 | Quantity of threaded extraction hole |
| M _A | 34 Nm | Screw tightening torque |
| | 2 | Quantity of retaining screws |
| t ₁ | 6 μm | Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction. |

Dimensions

| | | |
|--------------------|-----------|--|
| H ₁ | 40 mm | Height contact face outer ring |
| | 0,06 mm | Height contact face outerring H1 upper tolerance |
| | -0,07 mm | Height contact face outerring H1 lower tolerance |
| H ₂ | 20 mm | Height contact face outer ring |
| H _M | 15 mm | Height shaft washer |
| D _{1 max} | 415,1 mm | Maximum diameter inner ring |
| D _M | 412,45 mm | Diameter of dimensional scale on shaft locating washer |
| C | 20 mm | Width of outer ring |



Temperature range

| | | |
|------------|--------|----------------------------|
| T_{\min} | -30 °C | Operating temperature min. |
| T_{\max} | 120 °C | Operating temperature max. |

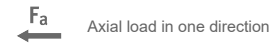
Additional information

| | | |
|----------|--------------------------|--|
| c_{aL} | 11.900 N/ μ m | Axial rigidity of bearing position |
| c_{rL} | 7.200 N/ μ m | Radial rigidity of bearing position |
| c_{kL} | 207.000 Nm/mrad | Tilting rigidity of bearing position |
| c_{aW} | 19.900 N/ μ m | Axial rigidity of rolling element set |
| c_{rW} | 7.100 N/ μ m | Radial rigidity of rolling element set |
| c_{kW} | 350.000 Nm/mrad | Tilting rigidity of rolling element set |
| M_m | 2.489 kg*cm ² | Mass moment of inertia for rotating outer ring |
| M_m | 4.506 kg*cm ² | Mass moment of inertia for rotating inner ring |

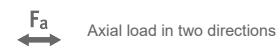
Characteristics



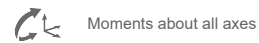
Radial load



Axial load in one direction



Axial load in two directions



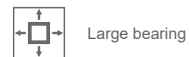
Moments about all axes



Grease Lubrication



Not sealed



Large bearing