



FAG



**added
competence**

Axial/Radial Bearings

For applications with reduced accuracy requirements

Axial/radial bearings

Features The double direction axial bearings suitable for flange mounting and with a radial guidance component correspond essentially in their design, mounting dimensions, rigidity and load carrying capacity to the established YRT bearings.

As in the case of the latter bearings, they can support high radial forces, axial loads from both directions and tilting moments free from clearance and with high rigidity.

Accuracy appropriate to requirements

They differ from the YRT bearings in the following respects:

- The axial and radial runout values are twice as high (between P5 and P6)
- The tolerances selected for the inside and outside diameter are twice as large
- The bearings can only be relubricated through the outer ring
- The functional surfaces on the axial face of the inner ring and in the bearing bore are smaller, see page 3
- The inner ring does not have counterbored holes for the heads of the fixing screws.

Operating limits

YRTE bearings are particularly suitable, on the basis of their accuracy appropriate to requirements, for rotary axes with swivel operation, for example in ancillary equipment, construction areas, in manufacturing automation and in robotics.



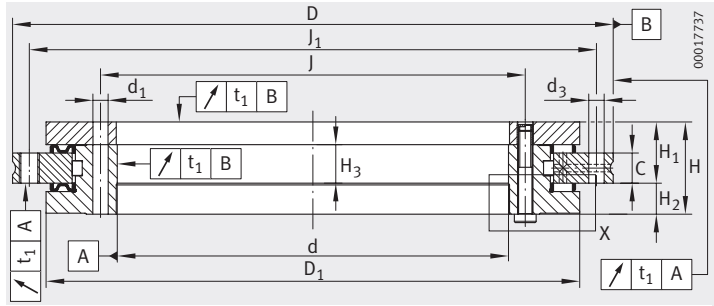
Design of the bearing arrangement and fitting of the bearings should be carried out in accordance with the information relating to YRT bearings in Catalogue HR 1, Rolling Bearings and in TPI 120, High precision bearings for combined loads.

Available diameters

Bearings are available with the bore diameter 200 mm, 260 mm, 325 mm, 395 mm and 460 mm; smaller sizes available by agreement.

Axial/radial bearings

Double direction



YRTE

Dimension table - Dimensions in mm

| Designation | Mass m ≈kg | Dimensions | | | | | | | | | | | | Fixing holes | | Pitch $t_1^{1)}$ Quantity Xt | |
|-------------|------------------|------------------------------------|------------------------------------|----|--------------------|--------------------|------------------|----------------|---------------|------------------|-----|-------|-------|------------------------|-------|------------------------------------|------------------------|
| | | d | D | H | H_1 $\pm 0,2$ | H_2 $\pm 0,2$ | H_3 ± 1 | C $\pm 0,2$ | D_1 max. | D_2 ± 1 | J | J_1 | d_1 | Quantity ²⁾ | d_3 | | Quantity ²⁾ |
| YRTE200 | 9,7 | 200 ⁰ _{-0,03} | 300 ⁰ _{-0,035} | 45 | 30 | 15 | 20 | 15 | 274 | 228 | 215 | 285 | 7 | 46 | 7 | 45 | 48X7,5° |
| YRTE260 | 18,3 | 260 ⁰ _{-0,035} | 385 ⁰ _{-0,04} | 55 | 36,5 | 18,5 | 23 | 18 | 345 | 297 | 280 | 365 | 9,3 | 34 | 9,3 | 33 | 36X10° |
| YRTE325 | 25 | 325 ⁰ _{-0,04} | 450 ⁰ _{-0,045} | 60 | 40 | 20 | 25 | 20 | 415 | 356 | 342 | 430 | 9,3 | 34 | 9,3 | 33 | 36X10° |
| YRTE395 | 33 | 395 ⁰ _{-0,04} | 525 ⁰ _{-0,05} | 65 | 42,5 | 22,5 | 25 | 20 | 486 | 432 | 415 | 505 | 9,3 | 46 | 9,3 | 45 | 48X7,5° |
| YRTE460 | 45 | 460 ⁰ _{-0,045} | 600 ⁰ _{-0,05} | 70 | 46 | 24 | 27 | 22 | 560 | 501 | 482 | 580 | 9,3 | 46 | 9,3 | 45 | 48X7,5° |

Dimension table (continued) · Dimensions in mm

| Designation | Threaded extraction hole | | Screw tightening torque ³⁾ M_A Nm | Basic load ratings | | | | Limiting speed ⁴⁾ n_G min ⁻¹ | Bearing frictional torque M_{RL} Nm | Rigidity of rolling element set | | | Axial/radial runout t_1 μm |
|-------------|--------------------------|----------|--|--------------------|------------------------|--------------------|------------------------|--|---|---------------------------------|-----------------------------|------------------------------|---|
| | G | Quantity | | axial | | radial | | | | axial kN/ μm | radial kN/ μm | Tilting rigidity kNm/mrad | |
| | | | | dyn. C_a N | stat. C_{0a} N | dyn. C_r N | stat. C_{0r} N | | | | | | |
| YRTE200 | M8 | 3 | 14 | 98 000 | 650 000 | 89 000 | 236 000 | 170 | 15 | 11,2 | 6,2 | 80 | 8 |
| YRTE260 | M12 | 3 | 34 | 109 000 | 810 000 | 102 000 | 310 000 | 130 | 25 | 13,7 | 8,1 | 155 | 12 |
| YRTE325 | M12 | 3 | 34 | 186 000 | 1 710 000 | 134 000 | 415 000 | 110 | 48 | 26,1 | 9,4 | 422 | 12 |
| YRTE395 | M12 | 3 | 34 | 202 000 | 2 010 000 | 133 000 | 435 000 | 90 | 55 | 30,3 | 11,3 | 684 | 12 |
| YRTE460 | M12 | 3 | 34 | 217 000 | 2 300 000 | 187 000 | 650 000 | 80 | 70 | 33,5 | 13,9 | 1 049 | 12 |

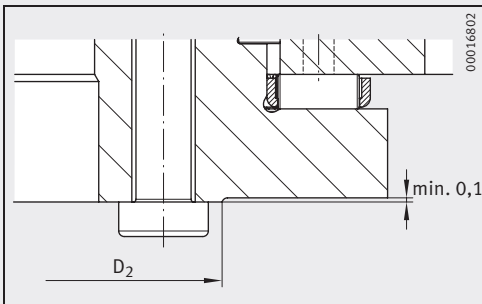
1) Including retaining screws or threaded extraction holes.

2) Attention!

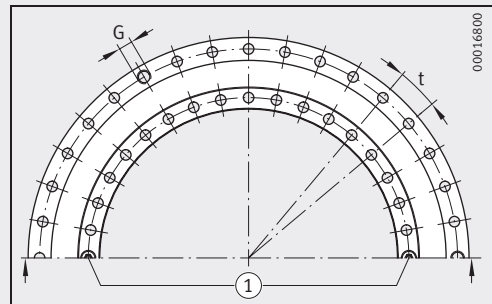
For fixing holes in the adjacent construction, the pitch of the bearing holes must be observed.

3) Tightening torque for screws to DIN 912, grade 10.9.

4) Maximum swivel speed.



View X



① Two retaining screws per size

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