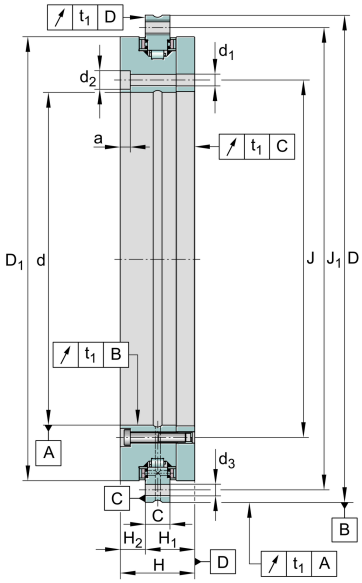
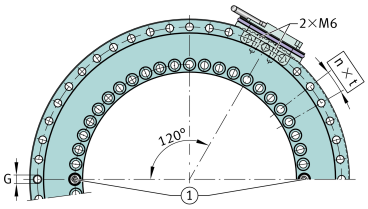
YRTSMA325

Axial/radial roller bearing

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

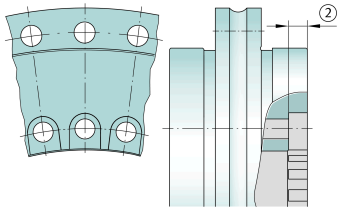
Technical information

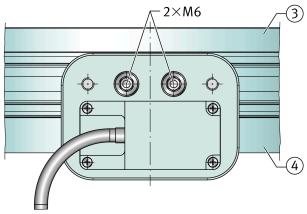




Main Dimensions & Performance Data

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	61 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	25 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	21 mm	Height contact face outer ring
$D_{1\,max}$	415,1 mm	Maximum diameter inner ring
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/µm	Axial rigidity of bearing position
c_{rL}	7.200 N/µm	Radial rigidity of bearing position
c_{kL}	207.000 Nm/mrad	Tilting rigidity of bearing position
c_{aW}	19.900 N/µm	Axial rigidity of rolling element set
c_{rW}	7.100 N/µm	Radial rigidity of rolling element set
c_{kW}	350.000 Nm/mrad	Tilting rigidity of rolling element set
M_m	2.489 kg*cm2	Mass moment of inertia for rotating outer ring
M_m	4.506 kg*cm2	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