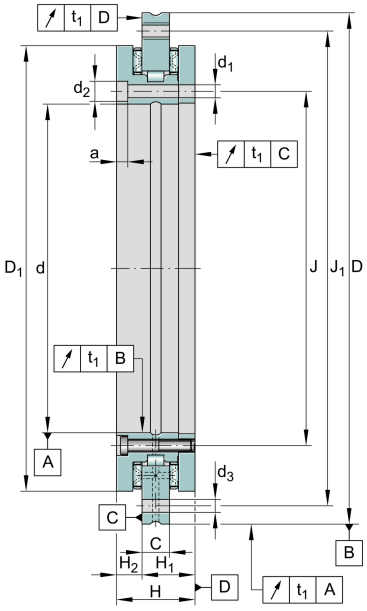
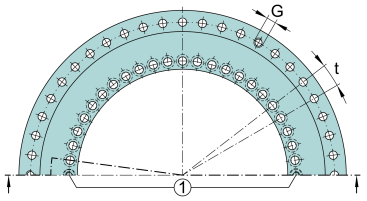
YRT50

Axial/radial roller bearing

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

Technical information





Your current product variant

Angular measuring system integrated	No	without measuring system

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/µm	Axial rigidity of bearing position
c_{rL}	1.100 N/µm	Radial rigidity of bearing position
c_{kL}	1.250 Nm/mrad	Tilting rigidity of bearing position
c_{aW}	6.200 N/µm	Axial rigidity of rolling element set
c_{rW}	1.500 N/µm	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