

**YRTC120-XL**

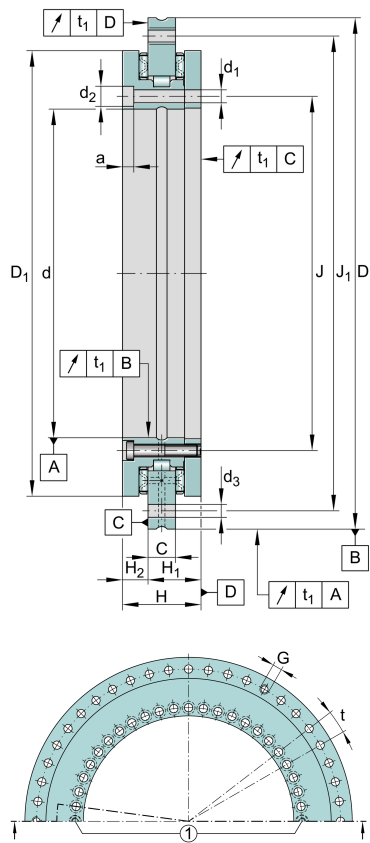
Axial/radial roller bearing

Axial/radial bearings, double direction, for screw mounting



X-life

Technical information



Your current product variant

Angular measuring system integrated	No	without measuring system
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Main Dimensions & Performance Data

d	120 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,01 mm	Bore diameter lower tolerance
D	210 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,015 mm	Outside diameter lower tolerance
H	40 mm	Height
C_r	69.000 N	Basic dynamic load rating, radial
C_{0r}	124.000 N	Basic static load rating, radial
C_a	112.000 N	Basic dynamic load rating, axial
C_{0a}	520.000 N	Basic static load rating, axial
n_G	900 1/min	Limiting speed
M_R	4 Nm	Bearing friction torque at 5 1/min
$\approx m$	4,501 kg	Weight



Mounting dimensions

J	135 mm	Pitch circle diameter fixing holes in inner ring
J ₁	195 mm	Pitch circle diameter fixing holes in outer ring
d ₁	7 mm	Fixing holes diameter inner ring
d ₂	11 mm	Counterbore diameter of fixing holes
a	6,2 mm	Counterbore depth of fixing holes
	22	Quantity of fixing holes inner ring
d ₃	7 mm	Fixing holes diameter outer ring
	21	Quantity of fixing holes outer ring
n	24	Pitch quantity
t	15 °	Pitch separation angle
G	M8	Threaded extraction hole
	3	Quantity of threaded extraction hole
M _A	14 Nm	Screw tightening torque
	2	Quantity of retaining screws
t ₁	3 μm	Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction.

Dimensions

H ₁	26 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	14 mm	Height contact face outer ring
	0,2 mm	Height contact face outerring H2 upper tolerance
	-0,2 mm	Height contact face outerring H2 lower tolerance
D _{1 max}	185 mm	Maximum diameter inner ring
C	12 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}	5.800 N/ μ m	Axial rigidity of bearing position
c_{rL}	3.640 N/ μ m	Radial rigidity of bearing position
c_{kL}	18.200 Nm/mrad	Tilting rigidity of bearing position
c_{aW}	9.800 N/ μ m	Axial rigidity of rolling element set
c_{rW}	5.600 N/ μ m	Radial rigidity of rolling element set
c_{kW}	35.500 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