



YRTC120-XL

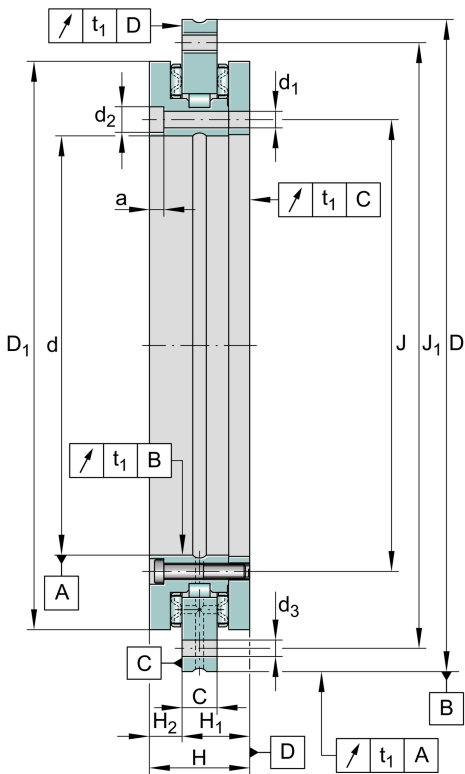
Axial/radial roller bearing

Schaeffler ID:
0889031500000

Axial/radial bearings, double direction, for
screw mounting

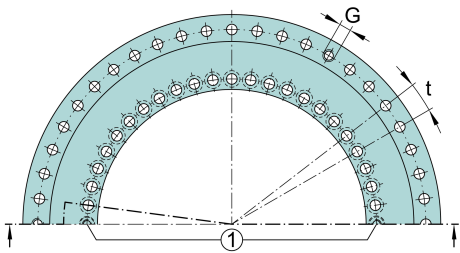
X-life

Technical information



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
	4.56 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 bord 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}	2,900 N/μm	Axial rigidity of bearing position
c _{rL}	2,600 N/μm	Radial rigidity of bearing position
c _{kL}	11,200 Nm/mrad	Tilting rigidity of bearing position
c _{aL}	9,800 N/μm	Axial rigidity of rolling element set
c _{rL}	4,000 N/μm	Radial rigidity of rolling element set
c _{kL}	35,500 Nm/mrad	Tilting rigidity of rolling element set