

**YRTC1030-XL**

Axial/radial roller bearing

Axial/radial bearings, double direction, for screw mounting



X-life

Technical information

**Main Dimensions & Performance Data**

d	1.030 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,063 mm	Bore diameter lower tolerance
D	1.300 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,08 mm	Outside diameter lower tolerance
H	145 mm	Height
C_r	580.000 N	Basic dynamic load rating, radial
C_{0r}	2.050.000 N	Basic static load rating, radial
C_a	1.140.000 N	Basic dynamic load rating, axial
C_{0a}	10.300.000 N	Basic static load rating, axial
n_G	40 1/min	Limiting speed
M_R	250 Nm	Bearing friction torque at 5 1/min
$\approx m$	373 kg	Weight



Mounting dimensions

J	1.075 mm	Pitch circle diameter fixing holes in inner ring
J ₁	1.255 mm	Pitch circle diameter fixing holes in outer ring
d ₁	18 mm	Fixing holes diameter inner ring
d ₂	26 mm	Counterbore diameter of fixing holes
a	17 mm	Counterbore depth of fixing holes
	70	Quantity of fixing holes inner ring
d ₃	18 mm	Fixing holes diameter outer ring
	66	Quantity of fixing holes outer ring
n	72	Pitch quantity
t	5 °	Pitch separation angle
G	M16	Threaded extraction hole
	6	Quantity of threaded extraction hole
M _A	284 Nm	Screw tightening torque
	2	Quantity of retaining screws
t ₁	12 µm	Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction.

Dimensions

H ₁	92,5 mm	Height contact face outer ring
	0,3 mm	Height contact face outerring H1 upper tolerance
	-0,3 mm	Height contact face outerring H1 lower tolerance
H ₂	52,5 mm	Height contact face outer ring
	0,3 mm	Height contact face outerring H2 upper tolerance
	-0,3 mm	Height contact face outerring H2 lower tolerance
D _{1 max}	1.215 mm	Maximum diameter inner ring
C	40 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}	72.800 N/ μ m	Axial rigidity of bearing position
c_{rL}	21.300 N/ μ m	Radial rigidity of bearing position
c_{kL}	8.640.000 Nm/mrad	Tilting rigidity of bearing position
c_{aW}	74.900 N/ μ m	Axial rigidity of rolling element set
c_{rW}	14.200 N/ μ m	Radial rigidity of rolling element set
c_{kW}	11.165.000 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
-  Large bearing