

**YRTC580-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

## Main Dimensions &amp; Performance Data

d	580 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,025 mm	Bore diameter lower tolerance
D	750 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,035 mm	Outside diameter lower tolerance
H	90 mm	Height
$C_r$	235.000 N	Basic dynamic load rating, radial
$C_{0r}$	730.000 N	Basic static load rating, radial
$C_a$	580.000 N	Basic dynamic load rating, axial
$C_{0a}$	4.450.000 N	Basic static load rating, axial
$n_G$	80 1/min	Limiting speed
$M_R$	60 Nm	Bearing friction torque at 5 1/min
$\approx m$	85,2 kg	Weight



### Mounting dimensions

J	610 mm	Pitch circle diameter fixing holes in inner ring
J <sub>1</sub>	720 mm	Pitch circle diameter fixing holes in outer ring
d <sub>1</sub>	11,4 mm	Fixing holes diameter inner ring
d <sub>2</sub>	18 mm	Counterbore diameter of fixing holes
a	11 mm	Counterbore depth of fixing holes
	46	Quantity of fixing holes inner ring
d <sub>3</sub>	11,4 mm	Fixing holes diameter outer ring
	42	Quantity of fixing holes outer ring
n	48	Pitch quantity
t	7,5 °	Pitch separation angle
G	M12	Threaded extraction hole
	6	Quantity of threaded extraction hole
M <sub>A</sub>	68 Nm	Screw tightening torque
	2	Quantity of retaining screws
t <sub>1</sub>	10 µm	Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction.

### Dimensions

H <sub>1</sub>	60 mm	Height contact face outer ring
	0,25 mm	Height contact face outerring H1 upper tolerance
	-0,25 mm	Height contact face outerring H1 lower tolerance
H <sub>2</sub>	30 mm	Height contact face outer ring
	0,25 mm	Height contact face outerring H2 upper tolerance
	-0,25 mm	Height contact face outerring H2 lower tolerance
D <sub>1 max</sub>	700 mm	Maximum diameter inner ring
C	30 mm	Width of outer ring










### Temperature range

$T_{min}$	-30 °C	Operating temperature min.
$T_{max}$	120 °C	Operating temperature max.

### Additional information

$c_{aL}$	23.800 N/ $\mu$ m	Axial rigidity of bearing position
$c_{rL}$	11.600 N/ $\mu$ m	Radial rigidity of bearing position
$c_{kL}$	1.176.000 Nm/mrad	Tilting rigidity of bearing position
$c_{aW}$	41.800 N/ $\mu$ m	Axial rigidity of rolling element set
$c_{rW}$	12.500 N/ $\mu$ m	Radial rigidity of rolling element set
$c_{kW}$	1.960.000 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