

**YRTC850-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 &amp; Performance Data

d	850 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,05 mm	Bore diameter lower tolerance
D	1.095 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,063 mm	Outside diameter lower tolerance
H	124 mm	Height
C <sub>r</sub>	520.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	1.690.000 N	Basic static load rating, radial
C <sub>a</sub>	1.020.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	8.500.000 N	Basic static load rating, axial
n <sub>G</sub>	50 1/min	Limiting speed
M <sub>R</sub>	130 Nm	Bearing friction torque at 5 1/min
≈m	231,4 kg	Weight



### Mounting dimensions

J	890 mm	Pitch circle diameter fixing holes in inner ring
J <sub>1</sub>	1.055 mm	Pitch circle diameter fixing holes in outer ring
d <sub>1</sub>	18 mm	Fixing holes diameter inner ring
d <sub>2</sub>	26 mm	Counterbore diameter of fixing holes
a	17 mm	Counterbore depth of fixing holes
	58	Quantity of fixing holes inner ring
d <sub>3</sub>	18 mm	Fixing holes diameter outer ring
	54	Quantity of fixing holes outer ring
n	60	Pitch quantity
t	6 °	Pitch separation angle
G	M16	Threaded extraction hole
	6	Quantity of threaded extraction hole
M <sub>A</sub>	284 Nm	Screw tightening torque
	2	Quantity of retaining screws
t <sub>1</sub>	12 µm	Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction.

### Dimensions

H <sub>1</sub>	80,5 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 <sub>2</sub>	43,5 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 <sub>1 max</sub>	1.018 mm	Maximum diameter inner ring
C	37 mm	Width of outer ring










### Temperature range

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

### Additional information

$c_{aL}$	53.000 N/ $\mu$ m	Axial rigidity of bearing position
$c_{rL}$	16.700 N/ $\mu$ m	Radial rigidity of bearing position
$c_{kL}$	3.762.000 Nm/mrad	Tilting rigidity of bearing position
$c_{aW}$	61.900 N/ $\mu$ m	Axial rigidity of rolling element set
$c_{rW}$	12.000 N/ $\mu$ m	Radial rigidity of rolling element set
$c_{kW}$	6.772.000 Nm/mrad	Tilting rigidity of rolling element set

### Characteristics

-   $F_r$  Radial load
-   $F_a$  Axial load in one direction
-   $F_a$  Axial load in two directions
-  Moments about all axes
-  Grease Lubrication
-  Not sealed
-  Large bearing