

**YRTCM200-XL**

## Axial/radial roller bearing

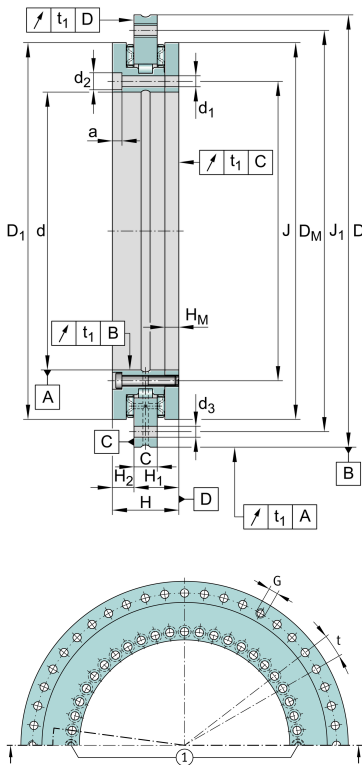
Axial/radial bearings, double direction, screw mounting, with integrated angular measuring system

## Technical information

## Your current product variant

Angular measuring system integrated	M	with angular measuring system
-------------------------------------	---	-------------------------------

## Main Dimensions &amp; Performance Data



d	200 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,015 mm	Bore diameter lower tolerance
D	300 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,018 mm	Outside diameter lower tolerance
H	45 mm	Height
$C_r$	123.000 N	Basic dynamic load rating, radial
$C_{0r}$	275.000 N	Basic static load rating, radial
$C_a$	147.000 N	Basic dynamic load rating, axial
$C_{0a}$	850.000 N	Basic static load rating, axial
$n_G$	450 1/min	Limiting speed
$M_R$	6 Nm	Bearing friction torque at 5 1/min
$\approx m$	9,12 kg	Weight



### Mounting dimensions

J	215 mm	Pitch circle diameter fixing holes in inner ring
J <sub>1</sub>	285 mm	Pitch circle diameter fixing holes in outer ring
d <sub>1</sub>	7 mm	Fixing holes diameter inner ring
d <sub>2</sub>	11 mm	Counterbore diameter of fixing holes
a	6,2 mm	Counterbore depth of fixing holes
	46	Quantity of fixing holes inner ring
d <sub>3</sub>	7 mm	Fixing holes diameter outer ring
	45	Quantity of fixing holes outer ring
n	48	Pitch quantity
t	7,5 °	Pitch separation angle
G	M8	Threaded extraction hole
	3	Quantity of threaded extraction hole
M <sub>A</sub>	14 Nm	Screw tightening torque
	2	Quantity of retaining screws
t <sub>1</sub>	4 μm	Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction.

### Dimensions

H <sub>1</sub>	30 mm	Height contact face outer ring
	0,03 mm	Height contact face outerring H1 upper tolerance
	-0,03 mm	Height contact face outerring H1 lower tolerance
H <sub>2</sub>	15 mm	Height contact face outer ring
	0,025 mm	Height contact face outerring H2 upper tolerance
	-0,025 mm	Height contact face outerring H2 lower tolerance
H <sub>M</sub>	10 mm	Height shaft washer
D <sub>1 max</sub>	274,4 mm	Maximum diameter inner ring
D <sub>M</sub>	271,12 mm	Diameter of dimensional scale on shaft locating washer
C	15 mm	Width of outer ring









### Temperature range

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

### Additional information

$c_{aL}$	9.800 N/ $\mu$ m	Axial rigidity of bearing position
$c_{rL}$	5.700 N/ $\mu$ m	Radial rigidity of bearing position
$c_{kL}$	64.000 Nm/mrad	Tilting rigidity of bearing position
$c_{aW}$	15.500 N/ $\mu$ m	Axial rigidity of rolling element set
$c_{rW}$	6.200 N/ $\mu$ m	Radial rigidity of rolling element set
$c_{kW}$	128.000 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