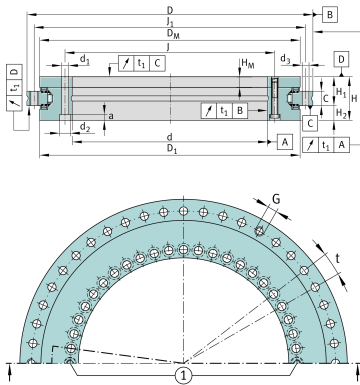


**YRTSM200** [↗](#)

## Axial/radial roller bearing

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

## Technical information



## Your current product variant

Angular measuring system integrated	M	with angular measuring system
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## 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 <sub>r</sub>	94.000 N	Basic dynamic load rating, radial
C <sub>0r</sub>	226.000 N	Basic static load rating, radial
C <sub>a</sub>	155.000 N	Basic dynamic load rating, axial
C <sub>0a</sub>	840.000 N	Basic static load rating, axial
n <sub>G</sub>	1.160 1/min	Limiting speed
m	8,8 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
	0,04 mm	Height contact face outerring H1 upper tolerance
	-0,06 mm	Height contact face outerring H1 lower tolerance
H <sub>2</sub>	15 mm	Height contact face outer ring
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

$c_{aL}$	7.200 N/ $\mu\text{m}$	Axial rigidity of bearing position
$c_{rL}$	4.800 N/ $\mu\text{m}$	Radial rigidity of bearing position
$c_{kL}$	52.200 Nm/mrad	Tilting rigidity of bearing position
$c_{aW}$	13.600 N/ $\mu\text{m}$	Axial rigidity of rolling element set
$c_{rW}$	3.900 N/ $\mu\text{m}$	Radial rigidity of rolling element set
$c_{kW}$	101.000 Nm/mrad	Tilting rigidity of rolling element set
$M_m$	435 kg*cm <sup>2</sup>	Mass moment of inertia for rotating outer ring
$M_m$	667 kg*cm <sup>2</sup>	Mass moment of inertia for rotating inner ring

### Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Moments about all axes



Grease Lubrication



Not sealed