

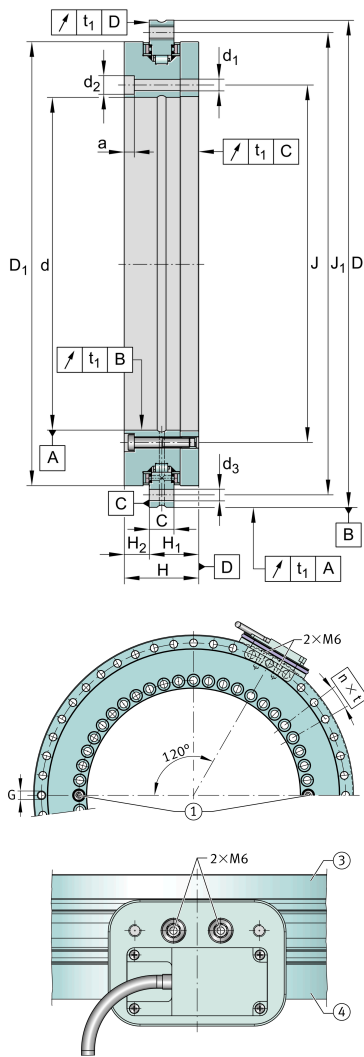


YRTSMA200

Axial/radial roller bearing

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

Technical information



Your current product variant

Angular measuring system integrated	MA	with absolute angular measuring system
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Main Dimensions & 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	51 mm	Height
C _r	94.000 N	Basic dynamic load rating, radial
C _{0r}	226.000 N	Basic static load rating, radial
C _a	155.000 N	Basic dynamic load rating, axial
C _{0a}	840.000 N	Basic static load rating, axial
n _G	1.160 1/min	Limiting speed
≈m	10 kg	Weight



Mounting dimensions

J	215 mm	Pitch circle diameter fixing holes in inner ring
J ₁	285 mm	Pitch circle diameter fixing holes in outer ring
d ₁	7 mm	Fixing holes diameter inner ring
d ₂	11 mm	Counterbore diameter of fixing holes
a	6,2 mm	Counterbore depth of fixing holes
	46	Quantity of fixing holes inner ring
d ₃	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 _A	14 Nm	Screw tightening torque
	2	Quantity of retaining screws
t ₁	4 μm	Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction.

Dimensions

H ₁	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 ₂	21 mm	Height contact face outer ring
D _{1 max}	274,4 mm	Maximum diameter inner ring
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/ μ m	Axial rigidity of bearing position
c_{rL}	4.800 N/ μ m	Radial rigidity of bearing position
c_{kL}	52.200 Nm/mrad	Tilting rigidity of bearing position
c_{aW}	13.600 N/ μ m	Axial rigidity of rolling element set
c_{rW}	3.900 N/ μ m	Radial rigidity of rolling element set
c_{kW}	101.000 Nm/mrad	Tilting rigidity of rolling element set
M_m	435 kg*cm ²	Mass moment of inertia for rotating outer ring
M_m	667 kg*cm ²	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