

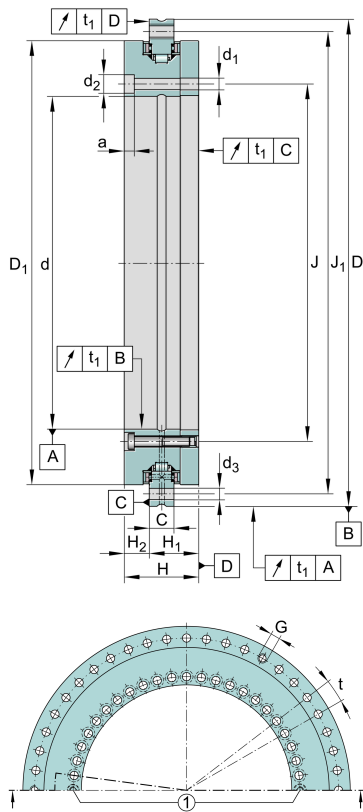


YRTS200 [↗](#)

Axial/radial roller bearing

Axial/radial bearings YRTS, double direction, for screw mounting, for higher speeds

Technical information



Your current product variant

Angular measuring system integrated No

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	45 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	8,7 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	15 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