

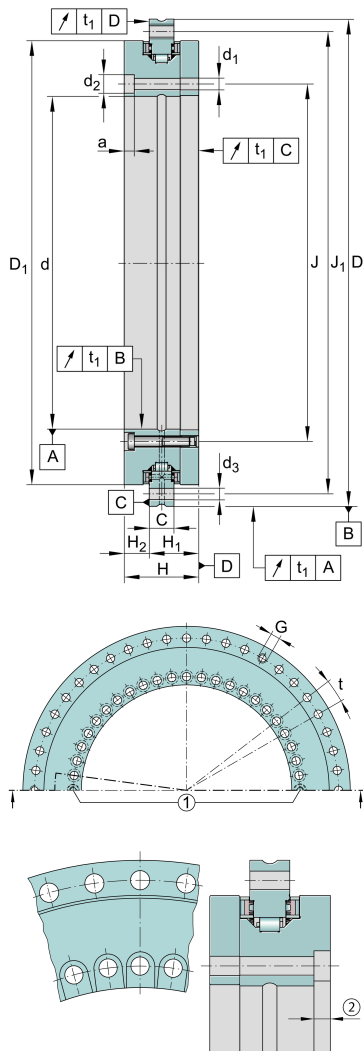


YRTS325 [↗](#)

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	without measuring system
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Main Dimensions & Performance Data

d	325 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,023 mm	Bore diameter lower tolerance
D	450 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,023 mm	Outside diameter lower tolerance
H	60 mm	Height
C _r	109.000 N	Basic dynamic load rating, radial
C _{0r}	320.000 N	Basic static load rating, radial
C _a	191.000 N	Basic dynamic load rating, axial
C _{0a}	1.260.000 N	Basic static load rating, axial
n _G	760 1/min	Limiting speed
≈m	24,765 kg	Weight



Mounting dimensions

J	342 mm	Pitch circle diameter fixing holes in inner ring
J ₁	430 mm	Pitch circle diameter fixing holes in outer ring
d ₁	9,3 mm	Fixing holes diameter inner ring
d ₂	15 mm	Counterbore diameter of fixing holes
a	8,2 mm	Counterbore depth of fixing holes
	34	Quantity of fixing holes inner ring
d ₃	9,3 mm	Fixing holes diameter outer ring
	33	Quantity of fixing holes outer ring
n	36	Pitch quantity
t	10 °	Pitch separation angle
G	M12	Threaded extraction hole
	3	Quantity of threaded extraction hole
M _A	34 Nm	Screw tightening torque
	2	Quantity of retaining screws
t ₁	6 μm	Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction.

Dimensions

H ₁	40 mm	Height contact face outer ring
	0,06 mm	Height contact face outerring H1 upper tolerance
	-0,07 mm	Height contact face outerring H1 lower tolerance
H ₂	20 mm	Height contact face outer ring
D _{1 max}	415,1 mm	Maximum diameter inner ring
C	20 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}	11.900 N/ μ m	Axial rigidity of bearing position
c_{rL}	7.200 N/ μ m	Radial rigidity of bearing position
c_{kL}	207.000 Nm/mrad	Tilting rigidity of bearing position
c_{aW}	19.900 N/ μ m	Axial rigidity of rolling element set
c_{rW}	7.100 N/ μ m	Radial rigidity of rolling element set
c_{kW}	350.000 Nm/mrad	Tilting rigidity of rolling element set
M_m	2.489 kg*cm ²	Mass moment of inertia for rotating outer ring
M_m	4.506 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
-  Large bearing