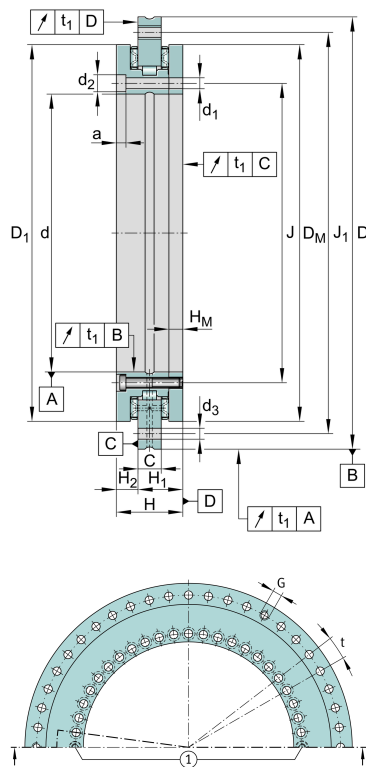


**YRTCM150-XL**

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
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Main Dimensions & Performance Data

d	150 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,013 mm	Bore diameter lower tolerance
D	240 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,015 mm	Outside diameter lower tolerance
H	41 mm	Height
C_r	74.000 N	Basic dynamic load rating, radial
C_{0r}	146.000 N	Basic static load rating, radial
C_a	128.000 N	Basic dynamic load rating, axial
C_{0a}	650.000 N	Basic static load rating, axial
n_G	800 1/min	Limiting speed
M_R	4 Nm	Bearing friction torque at 5 1/min
$\approx m$	5,5 kg	Weight



Mounting dimensions

J	165 mm	Pitch circle diameter fixing holes in inner ring
J ₁	225 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
	34	Quantity of fixing holes inner ring
d ₃	7 mm	Fixing holes diameter outer ring
	33	Quantity of fixing holes outer ring
n	36	Pitch quantity
t	10 °	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	3 µm	Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction.

Dimensions

H ₁	27 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 ₂	14 mm	Height contact face outer ring
	0,02 mm	Height contact face outerring H2 upper tolerance
	-0,02 mm	Height contact face outerring H2 lower tolerance
H _M	10 mm	Height shaft washer
D _{1 max}	214,5 mm	Maximum diameter inner ring
D _M	213,82 mm	Diameter of dimensional scale on shaft locating washer
C	12 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}	7.600 N/ μ m	Axial rigidity of bearing position
c_{rL}	4.480 N/ μ m	Radial rigidity of bearing position
c_{kL}	30.300 Nm/mrad	Tilting rigidity of bearing position
c_{aW}	12.000 N/ μ m	Axial rigidity of rolling element set
c_{rW}	6.500 N/ μ m	Radial rigidity of rolling element set
c_{kW}	61.000 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