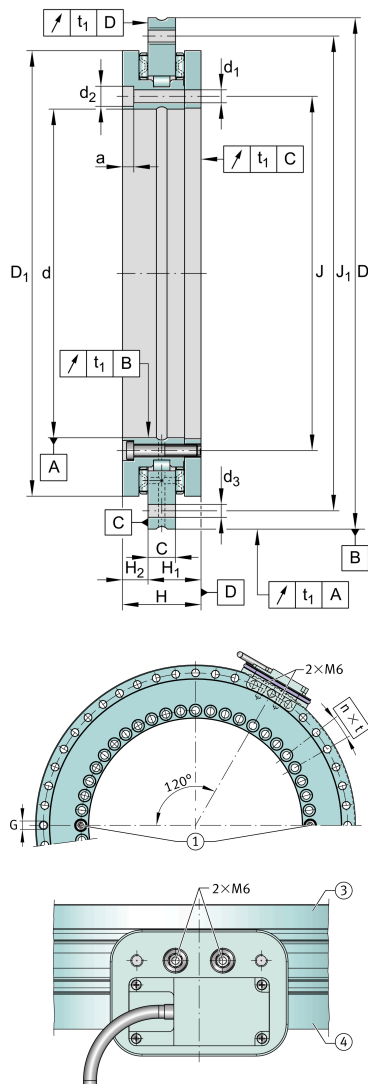


**YRTCMA460-XL**

Axial/radial roller bearing

Axial/radial bearings, double direction, screw mounting, 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	460 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,023 mm	Bore diameter lower tolerance
D	600 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,028 mm	Outside diameter lower tolerance
H	70 mm	Height
C_r	265.000 N	Basic dynamic load rating, radial
C_{0r}	880.000 N	Basic static load rating, radial
C_a	290.000 N	Basic dynamic load rating, axial
C_{0a}	2.550.000 N	Basic static load rating, axial
n_G	150 1/min	Limiting speed
M_R	25 Nm	Bearing friction torque at 5 1/min
$\approx m$	45,21 kg	Weight



Mounting dimensions

J	482 mm	Pitch circle diameter fixing holes in inner ring
J ₁	580 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
	46	Quantity of fixing holes inner ring
d ₃	9,3 mm	Fixing holes diameter outer ring
	45	Quantity of fixing holes outer ring
n	48	Pitch quantity
t	7,5 °	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	46 mm	Height contact face outer ring
	0,06 mm	Height contact face outerring H1 upper tolerance
	-0,06 mm	Height contact face outerring H1 lower tolerance
H ₂	24 mm	Height contact face outer ring
	0,03 mm	Height contact face outerring H2 upper tolerance
	-0,03 mm	Height contact face outerring H2 lower tolerance
D _{1 max}	560,9 mm	Maximum diameter inner ring
C	22 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}	24.000 N/ μ m	Axial rigidity of bearing position
c_{rL}	9.100 N/ μ m	Radial rigidity of bearing position
c_{kL}	686.000 Nm/mrad	Tilting rigidity of bearing position
c_{aW}	43.000 N/ μ m	Axial rigidity of rolling element set
c_{rW}	17.000 N/ μ m	Radial rigidity of rolling element set
c_{kW}	1.543.000 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
-  Large bearing