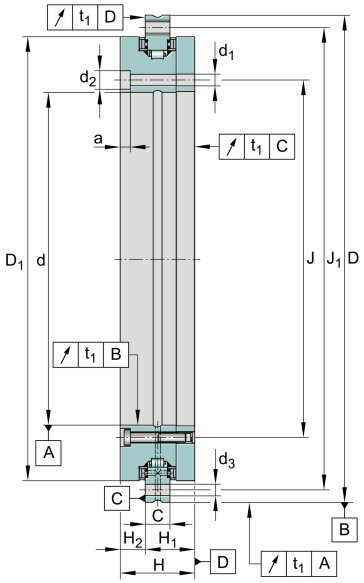
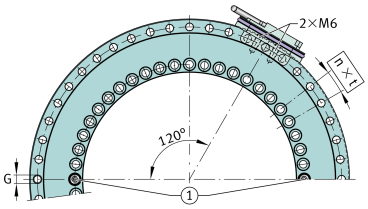
YRTSMA460

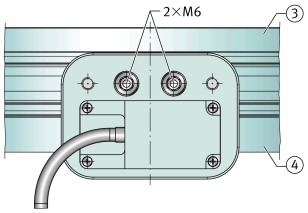
Axial/radial roller bearing

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

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	168.000 N	Basic dynamic load rating, radial
C_{0r}	570.000 N	Basic static load rating, radial
C_a	221.000 N	Basic dynamic load rating, axial
C_{0a}	1.690.000 N	Basic static load rating, axial
n_G	560 1/min	Limiting speed
≈m	45 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
	0,07 mm	Height contact face outerring H1 upper tolerance
	-0,08 mm	Height contact face outerring H1 lower tolerance
H_2	24 mm	Height contact face outer ring
$D_{1\ max}$	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}	16.000 N/µm	Axial rigidity of bearing position
c_{rL}	7.200 N/µm	Radial rigidity of bearing position
c_{kL}	504.000 Nm/mrad	Tilting rigidity of bearing position
c_{aW}	25.400 N/µm	Axial rigidity of rolling element set
c_{rW}	9.500 N/µm	Radial rigidity of rolling element set
c_{kW}	843.000 Nm/mrad	Tilting rigidity of rolling element set
M_m	7.379 kg*cm2	Mass moment of inertia for rotating outer ring
M_m	15.738 kg*cm2	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