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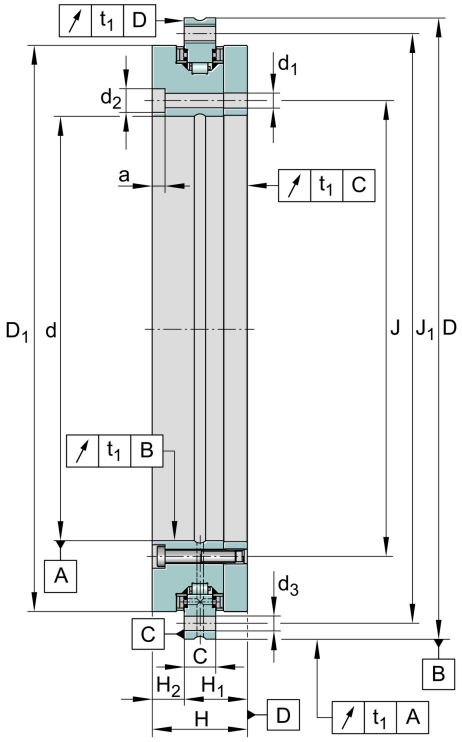
YRTS460-C

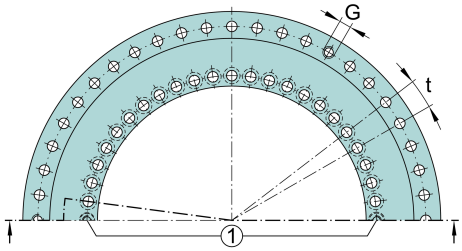
Axial/radial roller bearing

Schaeffler ID:
0721395950000

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

Technical information





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	45,2 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.

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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 bord 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}	8.900 N/µm	Axial rigidity of bearing position
c_{rL}	1.800 N/µm	Radial rigidity of bearing position
c_{kL}	280.000 Nm/mrad	Tilting rigidity of bearing position
c_{aL}	25.400 N/µm	Axial rigidity of rolling element set
c_{rL}	9.500 N/µm	Radial rigidity of rolling element set
c_{kL}	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