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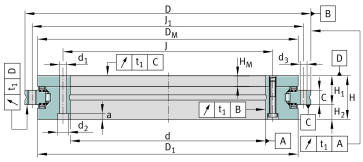
SCHAEFFLER

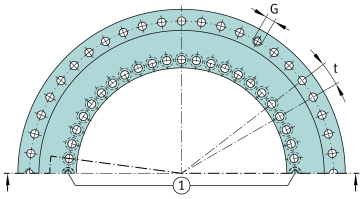
YRTSM200

Axial/radial roller bearing

Axial/radial bearings, double direction, screw mounting, for higher speeds, with integrated angular measuring system

Technical information





Main Dimensions & Performance Data

d	200 mm	Bore diameter
	0 mm	Bore diameter upper tolerance
	-0,015 mm	Bore diameter lower tolerance
D	300 mm	Outside diameter
	0 mm	Outside diameter upper tolerance
	-0,018 mm	Outside diameter lower tolerance
H	45 mm	Height
C_r	94.000 N	Basic dynamic load rating, radial
C_{0r}	226.000 N	Basic static load rating, radial
C_a	155.000 N	Basic dynamic load rating, axial
C_{0a}	840.000 N	Basic static load rating, axial
n_G	1.160 1/min	Limiting speed
≈m	8,8 kg	Weight

Mounting dimensions

J	215 mm	Pitch circle diameter fixing holes in inner ring
J_1	285 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
	46	Quantity of fixing holes inner ring
d_3	7 mm	Fixing holes diameter outer ring
	45	Quantity of fixing holes outer ring
n	48	Pitch quantity
t	7,5 °	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	4 µm	Axial and radial runout, measurement standard; Measured on mounted bearing, with ideal adjacent construction.

Dimensions

H_1	30 mm	Height contact face outer ring
	0,04 mm	Height contact face outerring H1 upper tolerance
	-0,06 mm	Height contact face outerring H1 lower tolerance
H_2	15 mm	Height contact face outer ring
H_M	10 mm	Height shaft washer
$D_{1\ max}$	274,4 mm	Maximum diameter inner ring
D_M	271,12 mm	Diameter of dimensional scale on shaft locating washer
C	15 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}	7.200 N/µm	Axial rigidity of bearing position
c_{rL}	4.800 N/µm	Radial rigidity of bearing position
c_{kL}	52.200 Nm/mrad	Tilting rigidity of bearing position
c_{aW}	13.600 N/µm	Axial rigidity of rolling element set
c_{rW}	3.900 N/µm	Radial rigidity of rolling element set
c_{kW}	101.000 Nm/mrad	Tilting rigidity of rolling element set
M_{m}	435 kg*cm2	Mass moment of inertia for rotating outer ring
M_{m}	667 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