SX011832-A ↗

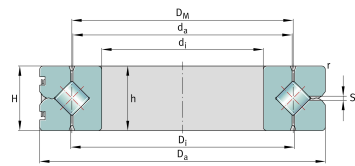### Crossed roller bearing

Crossed roller bearingsdimension series 18 to DIN 616

Technical information

Main Dimensions & Performance Data

d_1	160 mm		Bore Diameter
	0.004 mm		Bore diameter upper tolerance
	-0.021 mm		Bore diameter lower tolerance
D_a	200 mm		Outside Diameter
	0 mm		Outside diameter upper tolerance
	-0.029 mm		Outside diameter lower tolerance
H	20 mm		Height of the assembled bearing
h_i	20 mm		heigth inner ring
	0.1 mm		Width upper tolerance
	-0.1 mm		Width lower tolerance
≈m	1.581 kg		Weight

Dimensions

D_i	180.8 mm		Inner diameter outer ring
D_M	180 mm		rolling element pitch circle diameter
d_a	179.2 mm		outer diameter inner ring
h	20 mm		height of individual ring
	0 mm		Height of individual ring upper tolerance
	-0.025 mm		Height of individual ring lower tolerance
r_{min}	1.1 mm		chamfer dimension
S	1.5 mm		diameter of lubrication hole

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product.For further information you can use the contact form on our website

Temperature range

T_{min}	-30 °C		Operating temperature min.
T_{max}	80 °C		Operating temperature max.

Calculation factors

	0.015 mm	Running accuracy, radial
	0.01 mm	Running accuracy, axial
$S_{r\,min}$	0.005 mm	Minimum radial bearing clearance, at standard bearing clearance
$S_{r\,max}$	0.02 mm	Maximum radial bearing clearance, at standard bearing clearance
$S_{k\,min}$	0.01 mm	Minimum axial tilting clearance, at standard bearing clearance
$S_{k\,max}$	0.04 mm	Maximum axial tilting clearance, at standard bearing clearance
C_a	69,000 N	Basic dynamic load rating, axial
C_{0a}	255,000 N	Basic static load rating, axial
C_r	49,000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	126,000 N	Basic static load rating, radial (for radial load only)
$N_{G\,oil}$	850 1/min	Limiting speed for oil lubrication with normal clearance
$N_{G\,Grease}$	425 1/min	Limiting speed for grease lubrication with normal clearance
	61832	Dimensions identical to ISO dimension series 18

Characteristics

F_r	Radial load
F_a	Axial load in one direction
F_a	Axial load in two directions
	Grease Lubrication
	Oil Lubrication
	Not sealed
	Small design envelope

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