

**SX011880-VSP**

Crossed roller bearing

Crossed roller bearings dimension series 18 to
DIN 616

Technical information



Your current product variant

Preload	VSP	Bearing preload Standard
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Main Dimensions & Performance Data

d_1	400 mm	Bore Diameter
	0,007 mm	Bore diameter upper tolerance
	-0,029 mm	Bore diameter lower tolerance
D_a	500 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,04 mm	Outside diameter lower tolerance
H	46 mm	Height of the assembled bearing
h_i	46 mm	Height inner ring
	0,15 mm	Width upper tolerance
	-0,15 mm	Width lower tolerance
$\approx m$	23,221 kg	Weight



Dimensions

D_i	451 mm	Inner diameter outer ring
D_M	450 mm	Rolling element pitch circle diameter
d_a	449 mm	Outer diameter inner ring
h	46 mm	Height of individual ring
	0 mm	Height of individual ring upper tolerance
	-0,05 mm	Height of individual ring lower tolerance
r_{min}	2,1 mm	Chamfer dimension
S	2,5 mm	Diameter of lubrication hole

Temperature range

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

Calculation factors

	0,03 mm	Running accuracy, radial
	0,01 mm	Running accuracy, axial
VSP_{min}	0,005 mm	Minimum bearing preload
VSP_{max}	0,025 mm	Maximum bearing preload
C_a	385.000 N	Basic dynamic load rating, axial
C_{0a}	1.660.000 N	Basic static load rating, axial
C_r	275.000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	810.000 N	Basic static load rating, radial (for radial load only)
$N_{G\ oil}$	170 1/min	Limiting speed for oil lubrication with preload
N_G Grease	85 1/min	Limiting speed for grease lubrication with preload
	61880	Dimensions identical to ISO dimension series 18



Characteristics



Radial load



Axial load in one direction



Axial load in two directions



Moments about all axes



Grease Lubrication



Oil Lubrication



Not sealed



Large bearing