

**SX011868-VSP**

Crossed roller bearing

Crossed roller bearingsdimension series 18 to  
DIN 616

## Technical information



## Your current product variant

Preload	VSP	Bearing preload Standard
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## Main Dimensions &amp; Performance Data

$d_1$	340 mm	Bore Diameter
	0,007 mm	Bore diameter upper tolerance
	-0,029 mm	Bore diameter lower tolerance
$D_a$	420 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,04 mm	Outside diameter lower tolerance
H	38 mm	Height of the assembled bearing
$h_i$	38 mm	Height inner ring
	0,14 mm	Width upper tolerance
	-0,14 mm	Width lower tolerance
$\approx m$	12,92 kg	Weight



### Dimensions

$D_i$	380,8 mm	Inner diameter outer ring
$D_M$	380 mm	Rolling element pitch circle diameter
$d_a$	379,2 mm	Outer diameter inner ring
$h$	38 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

	0,025 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
$C_a$	265.000 N	Basic dynamic load rating, axial
$C_{0a}$	1.130.000 N	Basic static load rating, axial
$C_r$	187.000 N	Basic dynamic load rating, radial (for radial load only)
$C_{0r}$	550.000 N	Basic static load rating, radial (for radial load only)
$N_{G\ oil}$	200 1/min	Limiting speed for oil lubrication with preload
$N_G$ Grease	100 1/min	Limiting speed for grease lubrication with preload
	61868	Dimensions identical to ISO dimension series 18



### Characteristics

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Radial load



Axial load in one direction



Axial load in two directions



Moments about all axes



Grease Lubrication



Oil Lubrication



Not sealed



Large bearing