



### SX011836-A-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 & Performance Data

d <sub>1</sub>	180 mm	Bore Diameter
	0,004 mm	Bore diameter upper tolerance
	-0,021 mm	Bore diameter lower tolerance
D <sub>a</sub>	225 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,029 mm	Outside diameter lower tolerance
H	22 mm	Height of the assembled bearing
h <sub>i</sub>	22 mm	Height inner ring
	0,1 mm	Width upper tolerance
	-0,1 mm	Width lower tolerance
≈m	2,22 kg	Weight



## Dimensions

$D_i$	202,8 mm	Inner diameter outer ring
$D_M$	202 mm	Rolling element pitch circle diameter
$d_a$	201,2 mm	Outer diameter inner ring
$h$	22 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
$S$	2 mm	Diameter of lubrication hole

## 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
$VSP_{min}$	0,005 mm	Minimum bearing preload
$VSP_{max}$	0,025 mm	Maximum bearing preload
$C_a$	98.000 N	Basic dynamic load rating, axial
$C_{0a}$	360.000 N	Basic static load rating, axial
$C_r$	70.000 N	Basic dynamic load rating, radial (for radial load only)
$C_{0r}$	177.000 N	Basic static load rating, radial (for radial load only)
$N_{G\ oil}$	375 1/min	Limiting speed for oil lubrication with preload
$N_{G\ Grease}$	185 1/min	Limiting speed for grease lubrication with preload
	61836	Dimensions identical to ISO dimension series 18



### Characteristics

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