

**SX011860-VSP+PRL50** [↗](#)

Crossed roller bearing

Crossed roller bearings dimension series 18 to
DIN 616

Technical information



Your current product variant

Preload	VSP+PRL50	Preloaded, axial and radial run-out reduced by 50%
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Main Dimensions & Performance Data

d ₁	300 mm	Bore Diameter
	0,005 mm	Bore diameter upper tolerance
	-0,027 mm	Bore diameter lower tolerance
D _a	380 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,036 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
≈m	11,7 kg	Weight



Dimensions

D_i	340,8 mm	Inner diameter outer ring
D_M	340 mm	Rolling element pitch circle diameter
d_a	339,2 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

	0,01 mm	Running accuracy, radial
	0,005 mm	Running accuracy, axial
VSP _{min}	0,005 mm	Minimum bearing preload
VSP _{max}	0,025 mm	Maximum bearing preload
C_a	245.000 N	Basic dynamic load rating, axial
C_{0a}	990.000 N	Basic static load rating, axial
C_r	174.000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	485.000 N	Basic static load rating, radial (for radial load only)
$N_{G\ oil}$	225 1/min	Limiting speed for oil lubrication with preload
N_G Grease	110 1/min	Limiting speed for grease lubrication with preload
	61860	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