

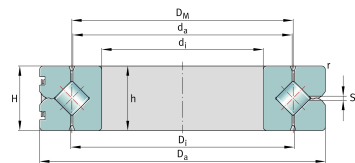


SX011828-A-VSP

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 _i	140 mm	Bore Diameter
	0.004 mm	Bore diameter upper tolerance
	-0.021 mm	Bore diameter lower tolerance
D _a	175 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0.025 mm	Outside diameter lower tolerance
H	18 mm	Height of the assembled bearing
h _i	18 mm	heigth inner ring
	0.06 mm	Width upper tolerance
	-0.06 mm	Width lower tolerance
≈m	1.095 kg	Weight



Dimensions

D _i	157.7 mm	Inner diameter outer ring
D _M	157 mm	rolling element pitch circle diameter
d _a	156.3 mm	outer diameter inner ring
h	18 mm	height of individual ring
	0 mm	Height of individual ring upper tolerance
	-0.01 mm	Height of individual ring lower tolerance
r _{min}	1.1 mm	chamfer dimension
S	1.5 mm	diameter of lubrication hole

Temperature range








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

Calculation factors

	0.015 mm	Running accuracy, radial
	0.01 mm	Running accuracy, axial
VSP _{min}	0.005 mm	Minimum bearing preload
VSP _{max}	0.02 mm	Maximum bearing preload
C _a	64,000 N	Basic dynamic load rating, axial
C _{0a}	223,000 N	Basic static load rating, axial
C _r	45,500 N	Basic dynamic load rating, radial (for radial load only)
C _{0r}	109,000 N	Basic static load rating, radial (for radial load only)
N _{G oil}	485 1/min	Limiting speed for oil lubrication with preload
N _{G Grease}	240 1/min	Limiting speed for grease lubrication with preload
	61828	Dimensions identical to ISO dimension series 18



Characteristics

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