



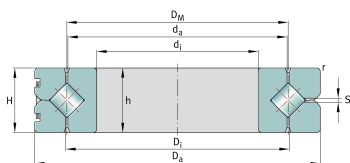
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Crossed roller bearing

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 ₁	200 mm	Bore Diameter
	0.004 mm	Bore diameter upper tolerance
	-0.024 mm	Bore diameter lower tolerance
D _a	250 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0.029 mm	Outside diameter lower tolerance
H	24 mm	Height of the assembled bearing
h _i	24 mm	height inner ring
	0.1 mm	Width upper tolerance
	-0.1 mm	Width lower tolerance
m	2.965 kg	Weight

The datasheet is only an overview of dimensions and basic load ratings of the selected product. Please always observe all further information and guidelines for this product. For further information you can use the [contact form](#) on our website



Dimensions

D _i	225.8 mm	Inner diameter outer ring
D _M	225 mm	rolling element pitch circle diameter
d _a	224.2 mm	outer diameter inner ring
h	24 mm	height of individual ring
	0 mm	Height of individual ring upper tolerance
	-0.025 mm	Height of individual ring lower tolerance
r _{min}	1.5 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	104,000 N	Basic dynamic load rating, axial
C _{0a}	400,000 N	Basic static load rating, axial
C _r	74,000 N	Basic dynamic load rating, radial (for radial load only)
C _{0r}	197,000 N	Basic static load rating, radial (for radial load only)
N _{G oil}	340 1/min	Limiting speed for oil lubrication with preload
N _{G Grease}	170 1/min	Limiting speed for grease lubrication with preload
	61840	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