

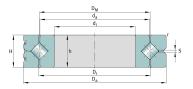


SX011824-A

Crossed roller bearing

Crossed roller bearingsdimension series 18 to DIN 616

Technical information



Main Dimensions & Performance Data

d ₁	120 mm	Bore Diameter
	0.004 mm	Bore diameter upper tolerance
	-0.018 mm	Bore diameter lower tolerance
D _a	150 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0.025 mm	Outside diameter lower tolerance
Н	16 mm	Height of the assembled bearing
h į	16 mm	heigth inner ring
	0.06 mm	Width upper tolerance
	-0.06 mm	Width lower tolerance
≈m	0.698 kg	Weight

Dimensions

Di	135.6 mm	Inner diameter outer ring
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DM	135 mm	rolling element pitch circle diameter
d _a	134.4 mm	outer diameter inner ring
h	16 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 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

	0.01 mm	Running accuracy, radial
	0.01 mm	Running accuracy, axial
S _{r min}	0.005 mm	Minimum radial bearing clearance, at standard bearing clearance
S _{rmax}	0.02 mm	Maximum radial bearing clearance, at standard bearing clearance
S _{k min}	0.01 mm	Minimum axial tilting clearance, at standard bearing clearance
S _{k max}	0.04 mm	Maximum axial tilting clearance, at standard bearing clearance
Ca	39,500 N	Basic dynamic load rating, axial
C _{0a}	140,000 N	Basic static load rating, axial
Cr	28,000 N	Basic dynamic load rating, radial (for radial load only)
C _{Or}	69,000 N	Basic static load rating, radial (for radial load only)
N _{G oil}	1,130 1/min	Limiting speed for oil lubrication with normal clearance
N _G Grease	565 1/min	Limiting speed for grease lubrication with normal clearance
	61824	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