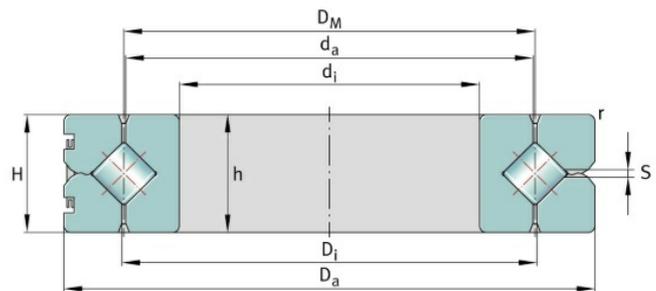


## SX011820

Crossed roller bearings dimension series 18 to DIN 616



### Technical sheet of SX011820

<b>Type :</b>	Crossed Roller Bearings	
<b>Model :</b>	<a href="#">SX011820</a>	
<b>Main demensions :</b>	100 mm × 125 mm × 13 mm	Bore Dia × Outside Dia × Width Dia
<b>M kg:</b>	0.402	Mass
<b>d mm:</b>	100	inner ring diameter
<b>D mm:</b>	125	Outer ring diameter
<b>B(T) mm:</b>	13	Overall Width
<b>Cr kN:</b>	19.4	Radial dynamic load rating
<b>C0r kN:</b>	40.5	Radial static load rating
<b>Grease r/min:</b>	680	Reference speed
<b>Oil r/min:</b>	1360	Limiting speed

#### Detailed parameters and installation dimensions:

Part Number	SX011820
Bearing Type	Crossed roller bearings dimension series 18 to DIN 616
Load	radial, thrust and moment
Temperature - T(min)	-30 °C
Temperature - T(max)	80 °C

Seal symbol	Open
Bore type	Cylindrical
Dynamic Axial Capacity - $C_a$	27000 N   6069 lbf
Static Axial Capacity - $C_{0a}$	102000 N   22929 lbf
Radial Dynamic Capacity - $C_r$	19400 N   4361 lbf
Radial Static Capacity - $C_{0r}$	40500 N   9104 lbf
Series	SX01
Equivalent	SX 01 1820
Bearing Mass - m	0.402 kg   0.886 lb
Rolling element pitch circle diameter - $D_M$	112 mm   4.409 inch
Inner ring - $d_i$	100 mm   3.937 inch
$d_i$ Tolerance	+0.004/-0.018 mm
Outer ring - $D_a$	125 mm   4.921 inch
$D_a$ Tolerance	-0.025 mm
Height - H	13 mm   0.512 inch
H Tolerance	+0.12/-0.12 mm
Height of inner ring - $h_i$	13 mm   0.512 inch
Height of individual ring - h	13 mm   0.512 inch
h Tolerance	-0.01 mm
Inner diameter outer ring - $D_i$	112.5 mm   4.429 inch
Outside diameter inner ring - $d_a$	111.5 mm   4.390 inch
Dimension Chamfer - r min	1 mm   0.039 inch
Lubrication hole - S	1.2 mm   0.047 inch
Rolling Element Type	Cylindrical rollers
Rolling Element Material	GCr15
Inner/Outer Ring Material	50Mn,42CrMo
Rows NO.	One
Units	Metric
Interchangeable	INA SX011820
Fixing screws - $F_r$ perm (friction locking)	10000 N   2248 lbf
Running accuracy relative to raceway (radial)	0.010 mm   0.000 inch
Running accuracy relative to raceway (axial)	0.010 mm   0.000 inch
Standard clearance (radial) - $S_r$ min	0.005 mm   0.000 inch
Standard clearance (radial) - $S_r$ max	0.02 mm   0.001 inch
Standard clearance (axial tilting) - $S_k$ min	0.01 mm   0.000 inch
Standard clearance (axial tilting) - $S_k$ max	0.04 mm   0.002 inch
Limiting speeds - $N_G$ Grease	680 min <sup>-1</sup>
Limiting speeds - $N_G$ oil	1360 min <sup>-1</sup>
Dimensionally identical to ISO dimension series 18	818 20
Lubricant	greased

**NOTE:** All other trademarks are the property of their respective owners used for the purpose of compatibility description and product identification only. Tradebearings is not affiliated with, endorsed by, or sponsored by the holders of these trademarks.

**SX011820 features:**

Conform to dimension series 18 to DIN 616

Cylindrical rollers to DIN 5402, spacers made from plastic

Outer ring split in a circumferential direction and held together by three retaining rings

The bearings are compact, easy to install, and offer high overturning moment carrying capacity, high rigidity, and high precision bearing positioning. They can withstand radial loads, bidirectional axial loads, overturning moments, and any combination of loads. This reduces the design costs of adjacent structures and the installation costs of the bearings.

**SX011820 application:**

Robots, Antennae, Machine tools, Measuring equipment, Medical equipment

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