



SX011824-A-R+4/-8 [↗](#)

Crossed roller bearing

Crossed roller bearingsdimension series 18 to
DIN 616

Technical information



Your current product variant

Preload	R+4/-8	Equals RL0 standard
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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
H	16 mm	Height of the assembled bearing
h _i	16 mm	Height inner ring
	0,06 mm	Width upper tolerance
	-0,06 mm	Width lower tolerance
≈m	0,711 kg	Weight



Dimensions

D_i	135,6 mm	Inner diameter outer ring
D_M	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
RLO_{max}	0,004 mm	Low clearance: Radial clearance
RLO_{max}	0,008 mm	Low clearance: Preload
C_a	39.500 N	Basic dynamic load rating, axial
C_{0a}	140.000 N	Basic static load rating, axial
C_r	28.000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	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
$N_{G\ oil}$	565 1/min	Limiting speed for oil lubrication with preload
N_G Grease	280 1/min	Limiting speed for grease lubrication with preload
	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