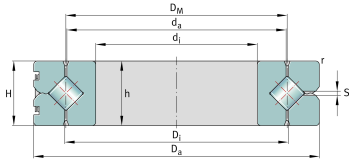


**SX011868**

## Crossed roller bearing

Crossed roller bearings dimension series 18 to  
DIN 616

## Technical information

**Main Dimensions & Performance Data**

$d_1$	340 mm	Bore Diameter
	0,007 mm	Bore diameter upper tolerance
	-0,029 mm	Bore diameter lower tolerance
$D_a$	420 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,04 mm	Outside diameter lower tolerance
H	38 mm	Height of the assembled bearing
$h_i$	38 mm	Height inner ring
	0,14 mm	Width upper tolerance
	-0,14 mm	Width lower tolerance
$\approx m$	12,92 kg	Weight

**Dimensions**

$D_i$	380,8 mm	Inner diameter outer ring
$D_M$	380 mm	Rolling element pitch circle diameter
$d_a$	379,2 mm	Outer diameter inner ring
h	38 mm	Height of individual ring
	0 mm	Height of individual ring upper tolerance
	-0,05 mm	Height of individual ring lower tolerance
$r_{min}$	2,1 mm	Chamfer dimension
S	2,5 mm	Diameter of lubrication hole



### Temperature range

$T_{min}$	-30 °C	Operating temperature min.
$T_{max}$	80 °C	Operating temperature max.








### Calculation factors

	0,025 mm	Running accuracy, radial
	0,01 mm	Running accuracy, axial
$S_{r min}$	0,01 mm	Minimum radial bearing clearance, at standard bearing clearance
$S_{r max}$	0,04 mm	Maximum radial bearing clearance, at standard bearing clearance
$S_{k min}$	0,02 mm	Minimum axial tilting clearance, at standard bearing clearance
$S_{k max}$	0,08 mm	Maximum axial tilting clearance, at standard bearing clearance
$RLO_{max}$	0,005 mm	Low clearance: Radial clearance
$RLO_{max}$	0,01 mm	Low clearance: Preload
$C_a$	265.000 N	Basic dynamic load rating, axial
$C_{0a}$	1.130.000 N	Basic static load rating, axial
$C_r$	187.000 N	Basic dynamic load rating, radial (for radial load only)
$C_{0r}$	550.000 N	Basic static load rating, radial (for radial load only)
$N_{G oil}$	400 1/min	Limiting speed for oil lubrication with normal clearance
$N_{G Grease}$	200 1/min	Limiting speed for grease lubrication with normal clearance
	61868	Dimensions identical to ISO dimension series 18



### Characteristics

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-  Radial load
-  Axial load in one direction
-  Axial load in two directions
-  Moments about all axes
-  Grease Lubrication
-  Oil Lubrication
-  Not sealed
-  Large bearing