

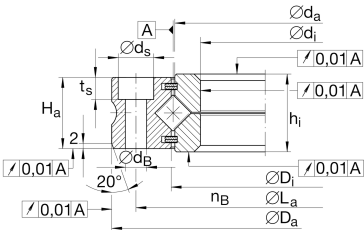


XV40

Crossed roller bearing

Crossed roller bearings without gear teeth,  
lamellar seals on both sides

Technical information



Main Dimensions & Performance Data

d <sub>i</sub>	40 mm	Bore Diameter
	0.01 mm	Bore diameter upper tolerance
	-0.006 mm	Bore diameter lower tolerance
D <sub>a</sub>	85 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0.022 mm	Outside diameter lower tolerance
h <sub>i</sub>	15 mm	height inner ring
≈m	428 g	Weight

Dimensions

D <sub>i</sub>	52.5 mm	Inner diameter outer ring
d <sub>a</sub>	51.5 mm	outer diameter inner ring
H <sub>a</sub>	14 mm	width outer ring
L <sub>a</sub>	70 mm	pitch circle diameter fixing holes
n <sub>B</sub>	12	Quantity of fixed holes evenly around the circumference
d <sub>B</sub>	4.6 mm	diameter fixing hole outer ring
d <sub>S</sub>	8 mm	countersunk diameter of fixing holes
t <sub>S</sub>	4.6 mm	countersunk depth of fixing holes










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
$C_a$	13,000 N	Basic dynamic load rating, axial
$C_{0a}$	32,500 N	Basic static load rating, axial
$C_r$	9,300 N	Basic dynamic load rating, radial (for radial load only)
$C_{0r}$	15,900 N	Basic static load rating, radial (for radial load only)
$F_{r\,zul.}$	5,000 N	Max. radial load screws (frictional contact)
$N_G$ Grease	1,469 1/min	Limiting speed for grease lubrication with normal clearance
$N_G$ Grease	735 1/min	Limiting speed for grease lubrication with preload

Characteristics

	Radial load
	Axial load in one direction
	Axial load in two directions
	Moments about all axes
	Grease Lubrication
	Sealed on both sides
	Small design envelope