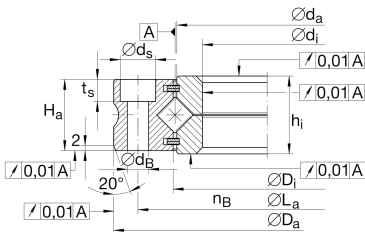


**XV100**

## Crossed roller bearing

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

## Technical information

**Main Dimensions & Performance Data**

$d_1$	100 mm	Bore Diameter
	0,016 mm	Bore diameter upper tolerance
	-0,006 mm	Bore diameter lower tolerance
$D_a$	170 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,025 mm	Outside diameter lower tolerance
$h_i$	23 mm	Height inner ring
$\approx m$	2,102 kg	Weight

**Dimensions**

$D_i$	117,5 mm	Inner diameter outer ring
$d_a$	116,5 mm	Outer diameter inner ring
$H_a$	22 mm	Width outer ring
$L_a$	150 mm	Pitch circle diameter fixing holes
$n_B$	16	Quantity of fixed holes evenly around the circumference
$d_B$	9 mm	Diameter fixing hole outer ring
$d_S$	15 mm	Countersunk diameter of fixing holes
$t_S$	8,5 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
$C_a$	54.000 N	Basic dynamic load rating, axial
$C_{0a}$	163.000 N	Basic static load rating, axial
$C_r$	38.500 N	Basic dynamic load rating, radial (for radial load only)
$C_{0r}$	80.000 N	Basic static load rating, radial (for radial load only)
$F_{r \text{ zul.}}$	28.200 N	Max. radial load screws (frictional contact)
$N_G$ Grease	653 1/min	Limiting speed for grease lubrication with normal clearance
$N_G$ Grease	326 1/min	Limiting speed for grease lubrication with preload

### Characteristics

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