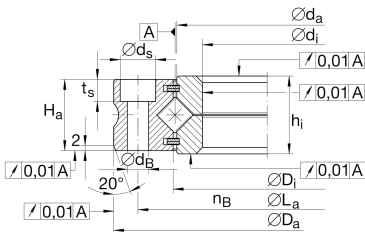


**XV90** **Crossed roller bearing**

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

**Technical information****Main Dimensions & Performance Data**

$d_1$	90 mm	Bore Diameter
	0,016 mm	Bore diameter upper tolerance
	-0,006 mm	Bore diameter lower tolerance
$D_a$	145 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,025 mm	Outside diameter lower tolerance
$h_i$	19 mm	Height inner ring
$\approx m$	1,197 kg	Weight

**Dimensions**

$D_i$	105,5 mm	Inner diameter outer ring
$d_a$	104,5 mm	Outer diameter inner ring
$H_a$	18 mm	Width outer ring
$L_a$	130 mm	Pitch circle diameter fixing holes
$n_B$	16	Quantity of fixed holes evenly around the circumference
$d_B$	6,6 mm	Diameter fixing hole outer ring
$d_S$	11 mm	Countersunk diameter of fixing holes
$t_S$	6,4 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
$C_a$	35.000 N	Basic dynamic load rating, axial
$C_{0a}$	111.000 N	Basic static load rating, axial
$C_r$	25.000 N	Basic dynamic load rating, radial (for radial load only)
$C_{0r}$	54.000 N	Basic static load rating, radial (for radial load only)
$F_{r\text{ zul.}}$	15.300 N	Max. radial load screws (frictional contact)
$N_G$ Grease	728 1/min	Limiting speed for grease lubrication with normal clearance
$N_G$ Grease	364 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