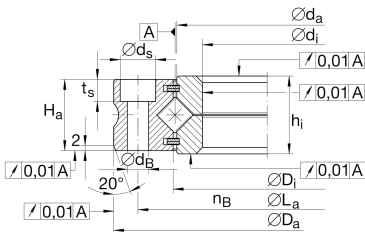


**XV50**

Crossed roller bearing

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

Technical information

**Main Dimensions & Performance Data**

d_1	50 mm	Bore Diameter
	0,01 mm	Bore diameter upper tolerance
	-0,006 mm	Bore diameter lower tolerance
D_a	100 mm	Outside Diameter
	0 mm	Outside diameter upper tolerance
	-0,022 mm	Outside diameter lower tolerance
h_i	17 mm	Height inner ring
$\approx m$	0,699 kg	Weight

Dimensions

D_i	64,5 mm	Inner diameter outer ring
d_a	63,5 mm	Outer diameter inner ring
H_a	16 mm	Width outer ring
L_a	85 mm	Pitch circle diameter fixing holes
n_B	12	Quantity of fixed holes evenly around the circumference
d_B	5,6 mm	Diameter fixing hole outer ring
d_S	10 mm	Countersunk diameter of fixing holes
t_S	5,4 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	20.500 N	Basic dynamic load rating, axial
C_{0a}	54.000 N	Basic static load rating, axial
C_r	14.700 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	26.500 N	Basic static load rating, radial (for radial load only)
$F_{r\text{ zul.}}$	8.180 N	Max. radial load screws (frictional contact)
N_G Grease	1.194 1/min	Limiting speed for grease lubrication with normal clearance
N_G Grease	597 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