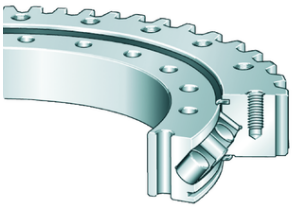
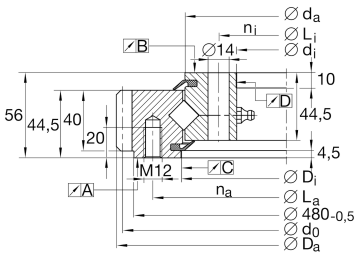


XSA141094-N

Slewing ring, crossed roller bearing, external gear teeth

Crossed roller bearings, standard series 14,
external gear teeth, lip seals on both sides

Technical information



Your current product variant

Gearing	N	Normalized gear teeth on bearing ring

Main Dimensions & Performance Data

d_{iZT}	1.024 mm	Diameter centring inner ring
	IT7	Diameter centring inner ring tolerance
t	10 mm	Length centering inner ring
D_a	1.198,1 mm	Outside Diameter
D_{iZT}	1.097 mm	Diameter centring outer ring
	IT7	Diameter centring outer ring tolerance
T	4,5 mm	Length centering outer ring
H	56 mm	Height
≈m	91 kg	Weight

Dimensions

h_a	44,5 mm	Width outer ring
L_a	1.135 mm	Pitchcircle diameter fixing holes outer ring
n_a	44	Number of fixing holes in outer ring
b	44,5 mm	Width gearing
m	8 mm	Modul of gearing
z	148	Number of teeth
d_0	1.184 mm	Pitch circle diameter gearing
$F_{z\ norm}$	28.300 N	Max. tooth force root fatigue strenght (at a shock factor of 1,2)
$F_{z\ max}$	42.000 N	Max. tooth force against tooth fracture (at a shock factor of 1,35)
d_a	1.093 mm	Outside diameter inner ring
	0 mm	Outside diameter inner ring upper tolerance
	-0,7 mm	Outside diameter inner ring lower tolerance
h	44,5 mm	Height of individual ring
d_B	14 mm	Fixing bore
L_i	1.048 mm	Pitchcircle diameter fixing holes inner ring
n_i	48	Number of fixing holes in inner ring
	M12	Tread fixing bore
t_G	20 mm	Thread depth oil connector
	0,07 mm	Running accuracy A (related to the raceway)
	0,07 mm	Running accuracy B (related to the raceway)
	0,11 mm	Running accuracy C (related to the raceway)
	0,11 mm	Running accuracy D (related to the raceway)

Temperature range

T_{min}	-25 °C	Operating temperature min.
T_{max}	80 °C	Operating temperature max.

Calculation factors

C_a	340.000 N	Basic dynamic load rating, axial
C_{0a}	1.440.000 N	Basic static load rating, axial
C_r	241.000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	710.000 N	Basic static load rating, radial (for radial load only)
VSP_{max}	0,05 mm	Maximum bearing preload
VSP_{min}	0,01 mm	Min. bearing preload
$F_{r\ zul}$	181.700 N	Max. radial load fixing screws (friction locking)

Characteristics

Radial load

Axial load in one direction

Axial load in two directions


Moments about all axes


Grease Lubrication


Sealed on both sides


Large bearing