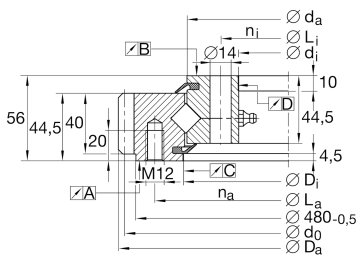
**XSA141094-N**

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
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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
$\approx m$	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
$F_{z \text{ norm}}$	28.300 N	Max. tooth force root fatigue strenght (at a shock factor of 1,2)
$F_{z \text{ max}}$	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
$F_{r\text{ zul}}$	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