

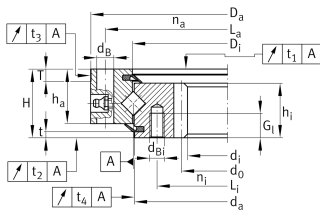


XSI140544-N

Slewing ring, crossed roller bearing, internal gear teeth

Crossed roller bearings, standard series 14, internal 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_i	444 mm	Bore Diameter
d_{aZT}	541 mm	Diameter centring inner ring
	-IT7	Diameter centring inner ring tolerance
t	4,5 mm	Length centering inner ring
D_{aZT}	614 mm	Diameter centring outer ring
	-IT7	Diameter centring outer ring tolerance
T	10 mm	Length centering outer ring
H	56 mm	Height
$\approx m$	43,2 kg	Weight



Dimensions

D_i	545 mm	Inner diameter outer ring
	0,5 mm	Inner diameter outer ring upper tolerance
	0 mm	Inner diameter outer ring lower tolerance
h_a	44,5 mm	Width outer ring
L_a	590 mm	Pitchcircle diameter fixing holes outer ring
n_a	32	Number of fixing holes in outer ring
d_B	14 mm	Fixing bore
	44,5 mm	Width inner ring
L_i	505 mm	Pitchcircle diameter fixing holes inner ring
n_i	32	Number of fixing holes in inner ring
	M12	Tread fixing bore
t_G	20 mm	Thread depth oil connector
b	44,5 mm	Width gearing
m	6 mm	Modul of gearing
z	76	Number of teeth
d_0	456 mm	Pitch circle diameter gearing
$F_{z\ norm}$	23.700 N	Max. tooth force root fatigue strenght
$F_{z\ max}$	35.000 N	Max. tooth force against tooth fracture
	0,04 mm	Running accuracy
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	0,07 mm	Running accuracy
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Temperature range








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



Calculation factors

C_a	231.000 N	Basic dynamic load rating, axial
C_{0a}	700.000 N	Basic static load rating, axial
C_r	164.000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	345.000 N	Basic static load rating, radial (for radial load only)
VSP max	0,03 mm	Maximum bearing preload
VSP min	0,01 mm	Min. bearing preload
$F_{r\text{ zul}}$	132.200 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