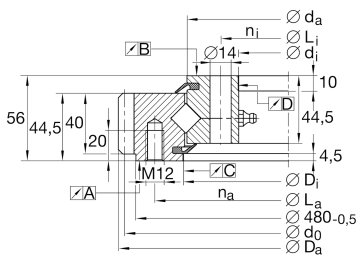


XSA140414-N [↗](#)

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}	344 mm	Diameter centring inner ring
	IT7	Diameter centring inner ring tolerance
t	10 mm	Length centering inner ring
D_a	503,3 mm	Outside Diameter
D_{iZT}	417 mm	Diameter centring outer ring
	IT7	Diameter centring outer ring tolerance
T	4,5 mm	Length centering outer ring
H	56 mm	Height
≈m	30,25 kg	Weight



Dimensions

h_a	44,5 mm	Width outer ring
L_a	455 mm	Pitchcircle diameter fixing holes outer ring
n_a	20	Number of fixing holes in outer ring
D_{aZT}	480 mm	Offset diameter outer ring
	0 mm	Offset diameter outer ring upper tolerance
	-0,5 mm	Offset diameter outer ring lower tolerance
b	40 mm	Width gearing
m	5 mm	Modul of gearing
z	99	Number of teeth
d_0	495 mm	Pitch circle diameter gearing
$F_{z\text{ norm}}$	15.900 N	Max. tooth force root fatigue strenght (at a shock factor of 1,2)
$F_{z\text{ max}}$	23.600 N	Max. tooth force against tooth fracture (at a shock factor of 1,35)
d_a	413 mm	Outside diameter inner ring
	0 mm	Outside diameter inner ring upper tolerance
	-0,5 mm	Outside diameter inner ring lower tolerance
h	44,5 mm	Height of individual ring
d_B	14 mm	Fixing bore
L_i	368 mm	Pitchcircle diameter fixing holes inner ring
n_i	24	Number of fixing holes in inner ring
	M12	Tread fixing bore
t_G	20 mm	Thread depth oil connector
	0,04 mm	Running accuracy A (related to the raceway)
	0,04 mm	Running accuracy B (related to the raceway)
	0,06 mm	Running accuracy C (related to the raceway)
	0,06 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	200.000 N	Basic dynamic load rating, axial
C_{0a}	540.000 N	Basic static load rating, axial
C_r	143.000 N	Basic dynamic load rating, radial (for radial load only)
C_{0r}	265.000 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
$F_{r\text{ zul}}$	82.600 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