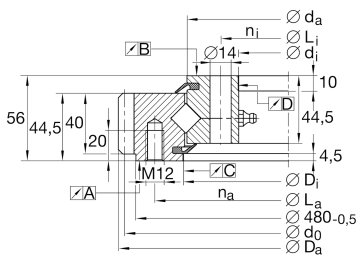
**XSA140414-N**

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 &amp; 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
$\approx m$	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