

**VSA200414-N-ZT**

Slewing ring, 4 point contact bearing, external gear teeth

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## Technical information

**Your current product variant**

Centering	ZT	Centering on inner and outer ring
Gearing	N	Normalized gear teeth on bearing ring
Radial internal clearance	Standard_SL	Standard radial clearance 0 to 0,3 and axial tilting clearance 0 to 0,53

**Main Dimensions & Performance Data**

$d_i$	342 mm	Bore Diameter
	0,5 mm	Bore diameter upper tolerance
	0 mm	Bore diameter lower tolerance
$d_{iZT}$	344 mm	Diameter centring inner ring
	IT8	Diameter centring inner ring tolerance
H	56 mm	Height
$D_a$	503,3 mm	Outside Diameter
$D_{iZT}$	417 mm	Diameter centring outer ring
	IT8	Diameter centring outer ring tolerance
T	4,5 mm	Length centering outer ring
t	10 mm	Length centering inner ring
$h_a$	44,5 mm	Width outer ring
$h_i$	44,5 mm	Height of inner ring
$\approx m$	31,4 kg	Weight



## Dimensions

$D_i$	415,5 mm	Inner diameter outer ring
	0,5 mm	Inner diameter outer ring upper tolerance
	0 mm	Inner diameter outer ring lower tolerance
$d_a$	412,5 mm	Outside diameter inner ring
	0 mm	Outside diameter inner ring upper tolerance
	-0,5 mm	Outside diameter inner ring lower tolerance
$n_i$	24	Number of fixing holes in inner ring
$L_i$	368 mm	Pitchcircle diameter fixing holes inner ring
$d_B$	14 mm	Fixing bore
$n_a$	20	Number of fixing holes in outer ring
$L_a$	455 mm	Pitchcircle diameter fixing holes outer ring
$d_{Ba}$	M12	Tread fixing bore
$G_i$	20 mm	Thread depth fixing hole
$F_{r\ zul}$	76.000 N	Max. radial load fixing screws (friction locking)
$d_0$	495 mm	Pitch circle diameter gearing
$m$	5 mm	Modul of gearing
$z$	99	Number of teeth
	-0,18 mm	Profile shift
$b$	40 mm	Width gearing
$D$	480 mm	Offset diameter outer ring
	0 mm	Offset diameter outer ring upper tolerance
	-0,5 mm	Offset diameter outer ring lower tolerance
$F_{z\ norm}$	15.900 N	Max. tooth force root fatigue strenght (at a shock factor of 1,2)
$F_{z\ max}$	23.600 N	Max. tooth force against tooth fracture (at a shock factor of 1,35)










### Temperature range

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

### Calculation factors

$C_a$	137.000 N	Basic dynamic load rating, axial
$C_{0a}$	660.000 N	Basic static load rating, axial
$C_r$	124.000 N	Basic dynamic load rating, radial
$C_{0r}$	305.000 N	Basic static load rating, radial

### 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