

**VSI200544-N-ZT-RL1** [↗](#)

Slewing ring, 4 point contact bearing, internal 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	RL1	Radial clearance 0 to 0,1; axial tilting clearance 0 to 0,21

## Main Dimensions &amp; Performance Data

$d_1$	444 mm	Bore Diameter
$d_{aZT}$	541 mm	Diameter centring inner ring
	-IT8	Diameter centring inner ring tolerance
T	4,5 mm	Length centering inner ring
H	56 mm	Height
$D_a$	616 mm	Outside Diameter
	-0,5 mm	Outside diameter lower tolerance
	0 mm	Outside diameter upper tolerance
$D_{aZT}$	614 mm	Diameter centring outer ring
	-IT8	Diameter centring outer ring tolerance
T	10 mm	Length centering outer ring
$h_a$	44,5 mm	Width outer ring
$h_i$	44,5 mm	Width inner ring
$\approx m$	42,1 kg	Weight



## Dimensions

$D_i$	545,5 mm	Inner diameter outer ring
	0,5 mm	Inner diameter outer ring upper tolerance
	0 mm	Inner diameter outer ring lower tolerance
$L_a$	590 mm	Pitchcircle diameter fixing holes outer ring
$n_a$	32	Number of fixing holes in outer ring
$d_B$	14 mm	Fixing bore
$d_a$	542,5 mm	Outside diameter inner ring
	0 mm	Outside diameter inner ring upper tolerance
	-0,5 mm	Outside diameter inner ring lower tolerance
$L_i$	505 mm	Pitchcircle diameter fixing holes inner ring
$d_{Bi}$	M12	Tread fixing bore
$G_i$	20 mm	Thread depth fixing hole
$n_i$	32	Number of fixing holes in inner ring
$F_{r\text{ zul}}$	132.200 N	Max. radial load fixing screws (friction locking)
$m$	6 mm	Modul of gearing
$z$	76	Number of teeth
$d_0$	456 mm	Pitch circle diameter gearing
$F_{z\text{ norm}}$	23.700 N	Max. tooth force root fatigue strenght (at a shock factor of 1,2)
$F_{z\text{ max}}$	35.000 N	Max. tooth force against tooth fracture (at a shock factor of 1,35)

## Temperature range

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



### Calculation factors

$C_a$	152.000 N	Basic dynamic load rating, axial
$C_{0a}$	870.000 N	Basic static load rating, axial
$C_r$	138.000 N	Basic dynamic load rating, radial
$C_{0r}$	400.000 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