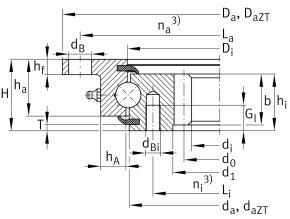


**VLI200414-N-ZT-RL1** [↗](#)

Slewing ring, 4 point contact bearing, internal gear teeth

Four point contact bearings, light series 20,
internal gear teeth, lip seals on both sides

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 & Performance Data

d_1	325 mm	Bore Diameter
d_{aZT}	411 mm	Diameter centring inner ring
	-IT8	Diameter centring inner ring tolerance
T	4,4 mm	Length centering inner ring
H	56 mm	Height
D_{aZT}	516 mm	Diameter centring outer ring
	-IT8	Diameter centring outer ring tolerance
h_f	12 mm	Height of flange
h_a	44,5 mm	Width outer ring
h_i	44,5 mm	Width inner ring
$\approx m$	27 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
L_a	490 mm	Pitchcircle diameter fixing holes outer ring
n_a	8	Number of fixing holes in outer ring
d_B	18 mm	Fixing bore
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
L_i	375 mm	Pitchcircle diameter fixing holes inner ring
d_{Bi}	M12	Tread fixing bore
G_i	20 mm	Thread depth fixing hole
n_i	12	Number of fixing holes in inner ring
$F_{r\text{ zul}}$	49.600 N	Max. radial load fixing screws (friction locking)
m	5 mm	Modul of gearing
z	67	Number of teeth
d_0	335 mm	Pitch circle diameter gearing
b	40 mm	Width gearing
d_1	350 mm	Diameter turning inner ring
	0,5 mm	Diameter turning inner ring upper tolerance
	0 mm	Diameter turning inner ring lower tolerance
h_A	20 mm	Ring cross section
$F_{z\text{ norm}}$	17.700 N	Max. tooth force root fatigue strenght (at a shock factor of 1,2)
$F_{z\text{ max}}$	26.200 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}	295.000 N	Basic static load rating, axial
C_r	124.000 N	Basic dynamic load rating, radial
C_{0r}	110.000 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