



### VSI200414-N

Slewing ring, 4 point contact bearing, internal gear teeth

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## Technical information



### Your current product variant

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

$d_1$	325 mm	Bore Diameter
H	56 mm	Height
$D_a$	486 mm	Outside Diameter
	-0,5 mm	Outside diameter lower tolerance
	0 mm	Outside diameter upper tolerance
$h_a$	44,5 mm	Width outer ring
$h_i$	44,5 mm	Width inner ring
$\approx m$	31 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
$L_a$	460 mm	Pitchcircle diameter fixing holes outer ring
$n_a$	24	Number of fixing holes in outer ring
$d_B$	14 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
$n_i$	24	Number of fixing holes in inner ring
$F_{r\text{ zul}}$	99.100 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
$F_{z\text{ norm}}$	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

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