



VSA251055-N [↗](#)

Slewing ring, 4 point contact bearing, external gear teeth

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Technical information



Your current product variant

Gearing	N	Normalized gear teeth on bearing ring
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Main Dimensions & Performance Data

d_i	955 mm	Bore Diameter
H	80 mm	Height
D_a	1.198 mm	Outside Diameter
h_a	71 mm	Width outer ring
h_i	54 mm	Height of inner ring
	0,03 mm	Normal radial clearance min.
	0,13 mm	Normal radial clearance max.
	0,05 mm	Normal axial clearance min.
	0,24 mm	Normal axial clearance max.
$\approx m$	175 kg	Weight



Dimensions

D_i	1.053 mm	Inner diameter outer ring
d_a	1.057 mm	Outside diameter inner ring
n_i	30	Number of fixing holes in inner ring
L_i	995 mm	Pitchcircle diameter fixing holes inner ring
d_B	22 mm	Fixing bore
n_a	30	Number of fixing holes in outer ring
L_a	1.116 mm	Pitchcircle diameter fixing holes outer ring
d_{Ba}	M20	Tread fixing bore
G_l	40 mm	Thread depth fixing hole
$F_{r\text{ zul}}$	363.000 N	Max. radial load fixing screws (friction locking)
d_0	1.180 mm	Pitch circle diameter gearing
m	10 mm	Modul of gearing
z	118	Number of teeth
$F_{z\text{ norm}}$	61.200 N	Max. tooth force root fatigue strenght (at a shock factor of 1,2)
$F_{z\text{ max}}$	89.000 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	385.000 N	Basic dynamic load rating, axial
C_{0a}	3.750.000 N	Basic static load rating, axial
C_r	350.000 N	Basic dynamic load rating, radial
C_{0r}	1.720.000 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