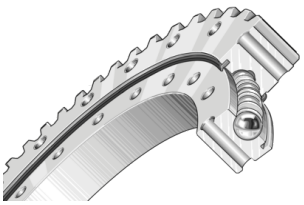
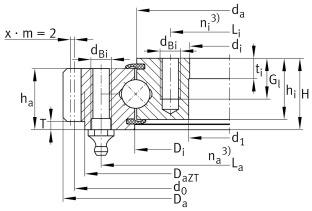


VA140188-V-VSP

Slewing ring, 4 point contact bearing, external gear teeth

Slewing ring, 4 point contact bearing, internal gear teeth

Technical information



Your current product variant

Gearing	V	Quenched and tempered gear teeth on bearing ring
Preload	VSP	Bearing with preload

Main Dimensions & Performance Data

d_i	136 mm	Bore Diameter
	0,5 mm	Bore diameter upper tolerance
	-0,5 mm	Bore diameter lower tolerance
d_{iZT}	135 mm	Diameter centring inner ring
	0,2 mm	Diameter centring inner ring upper tolerance
	0 mm	Diameter centring inner ring lower tolerance
H	35 mm	Height
D_a	259,36 mm	Outside Diameter
$D_{i\ ZT}$	238 mm	Diameter centring outer ring
	0 mm	Diameter centring outer ring upper tolerance
	-0,07 mm	Diameter centring outer ring lower tolerance
T	4 mm	Length centering outer ring
t	10 mm	Length centering inner ring
h_a	30 mm	Width outer ring
h_i	30 mm	Height of inner ring
	0,03 mm	Normal radial clearance min.
	0,1 mm	Normal radial clearance max.
	0,05 mm	Normal axial clearance min.
	0,2 mm	Normal axial clearance max.
≈m	7,1 kg	Weight

Dimensions

D_i	189 mm	Inner diameter outer ring
d_a	187 mm	Outside diameter inner ring
n_i	16	Number of fixing holes in inner ring
L_i	154 mm	Pitchcircle diameter fixing holes inner ring
n_a	16	Number of fixing holes in outer ring
L_a	222 mm	Pitchcircle diameter fixing holes outer ring
d_{Ba}	M10	Tread fixing bore
G_l	20 mm	Thread depth fixing hole
$F_{r\ zul}$	44.800 N	Max. radial load fixing screws (friction locking)
d_0	248 mm	Pitch circle diameter gearing
m	4 mm	Modul of gearing
z	62	Number of teeth
	2 mm	Profile shift
b	26 mm	Width gearing
$F_{z\ norm}$	10.400 N	Max. tooth force root fatigue strenght (at a shock factor of 1,2)
$F_{z\ max}$	15.300 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	93.000 N	Basic dynamic load rating, axial
C_{0a}	670.000 N	Basic static load rating, axial
C_r	84.000 N	Basic dynamic load rating, radial
C_{0r}	270.000 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