

Factory-Verified Replacement

MERYDOM VSI 200944 N

Certified for interchange with INA VSI 200944 N. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

LEVEL 3 - MERYDOM ENGINEERING VERIFIED

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

MERYDOM MODEL

VSI 200944 N

SERIES

VSI 20 Series

OVERALL OD

1,016 mm

OVERALL HEIGHT

mm

REFERENCE

INA VSI 200944 N

STRUCTURE

Four-point contact ball

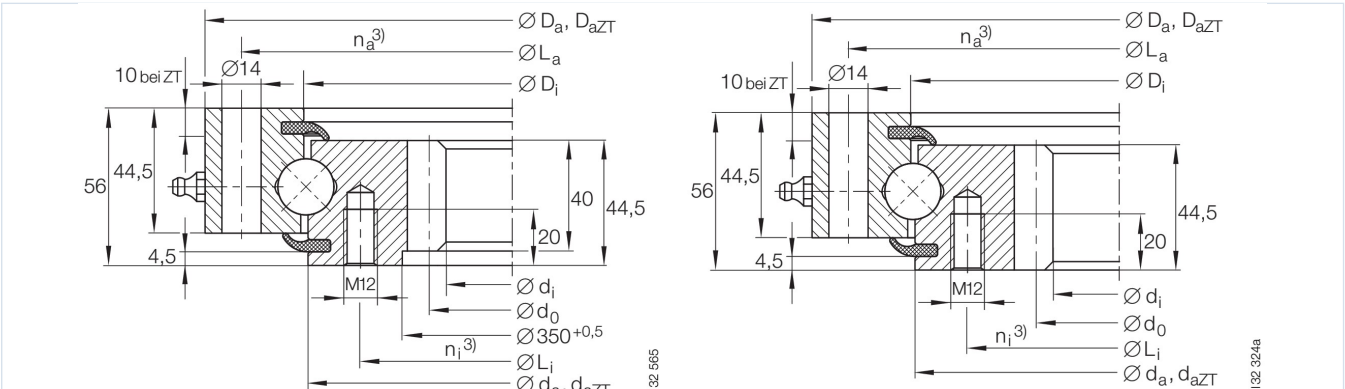
OVERALL ID

840 mm

GEAR

Internal gear

Published Technical Drawing



ina-g05-drawing.webp

Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

MERYDOM CERTIFIED PRODUCT	
Product brand	MERYDOM
MERYDOM model	VSI 200944 N
Certified interchangeable with	INA VSI 200944 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	U2IPI64D4XUZYNUCNYBEWX6XSG
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	INA
Reference series	VSI 20 Series
Reference model	VSI 200944 N
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Mass (Mass)	76 kg
Overall outside diameter (Da)	1016-0,7 mm
Outside centring diameter (DaZT)	1,014 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall inside diameter (di)	840 mm
Catalog diameter Di (Di)	945,5+0,7 mm
Catalog diameter da (da)	942,5-0,7 mm
Catalog centring diameter daZT (daZT)	941 mm
MOUNTING	
Outer ring bolt circle (La)	990 mm
Outer ring mounting-hole count (na)	44
Inner ring bolt circle (Li)	905 mm
Inner ring mounting-hole count (ni)	44
GEAR	
Gear pitch diameter (d0)	856 mm
Gear module (m)	8 mm
Gear tooth count (z)	107
PERFORMANCE	
Maximum permissible radial load (Fr perm)	181.7 kN
Normal tooth force (Fznorm)	31.4 kN
Maximum tooth force (Fzmax)	46.7 kN
Basic dynamic axial load rating (Ca)	231 kN
Basic static axial load rating (C0a)	1,280 kN
Basic dynamic radial load rating (Cr)	151 kN

Complete Product Data

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PERFORMANCE (CONTINUED)	
Basic static radial load rating (C _{0r})	570 kN
PERFORMANCE RATINGS	
Rating Radial Static	570 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	1,280 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	151 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	231 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	46.7 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	31.4 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	181.7 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	44 holes - See source drawing
Inner ring mounting	44 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	8 mm
Number of teeth	107
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	62

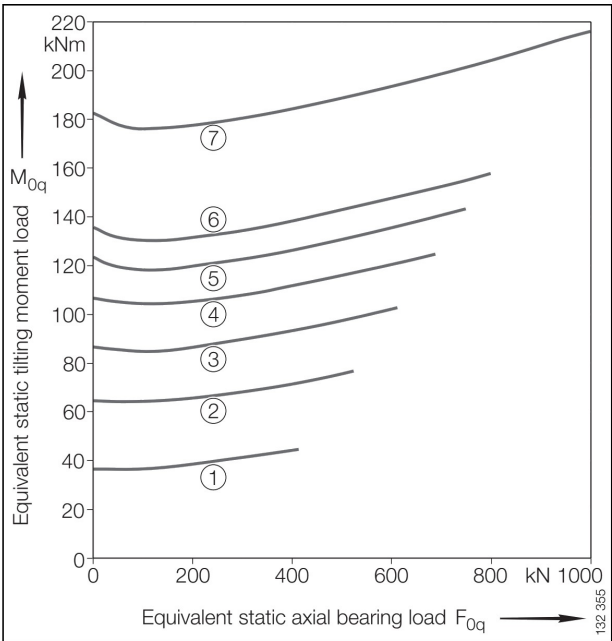
Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

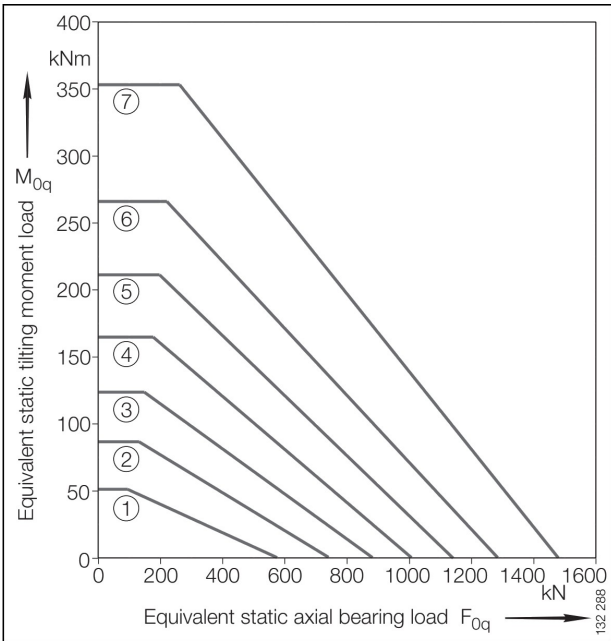
SOURCE TRACEABILITY (CONTINUED)	
Printed page	60
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g05-curve.webp SHA-256: fb0e0ce5a4e3d4bb75bd48bfd1e620139c351bb1cc03611c4a0b2c517182c12b
Outline Drawing	ina-g05-drawing.webp SHA-256: 292f24816a8315396ba35679ad20ed0cbe8ec267d4e1c171f7957a4aa33bd574

Published Load / Performance Chart

Use the published chart as a preliminary selection aid only. The model legend, curve family and source document must be reviewed together with the operating load case.



Static limiting load diagram



Static limiting load diagram

ina-g05-curve.webp | SHA-256: fb0e0ce5a4e3d4bb75bd48bfd1e620139c351bb1cc03611c4a0b2c517182c12b

Engineering note: final approval must also consider mounting rigidity, bolt capacity, duty cycle, lubrication, temperature, environment and installation conditions.

Source and Verification Traceability

PUBLIC RECORD UID

U2IPi64D4XUZYNucnyBEwX6XSG

SOURCE DOCUMENT

INA-SLEWING-RINGS-CATALOGUE-404-2012

SOURCE FILE

404_de_en_1.pdf

SOURCE LOCATION

PDF page 62 | Printed page 60

VERIFICATION

**Level 3 - MERYDOM Engineering
Verified**

REVIEWED BY

MERYDOM Engineering Department

Engineering Confirmation Boundary

- 1 Confirm the exact model designation and all installation-envelope dimensions.
- 2 Confirm mounting-hole quantity, bolt circle, hole specification, bolt grade and preload.
- 3 Confirm gear arrangement, pitch system, tooth count, backlash and mating-pinion data.
- 4 Confirm axial, radial and moment loads, load combinations, duty cycle and required life.
- 5 Confirm support flatness and stiffness, lubrication, sealing, temperature and environment.
- 6 Final drawing revision, manufacturing tolerances and documentation package are confirmed with the quotation.

Request Price, Delivery and Final Engineering Confirmation

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/ina/vsi-200944-n/>

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