

MERYDOM VSI 251055 N

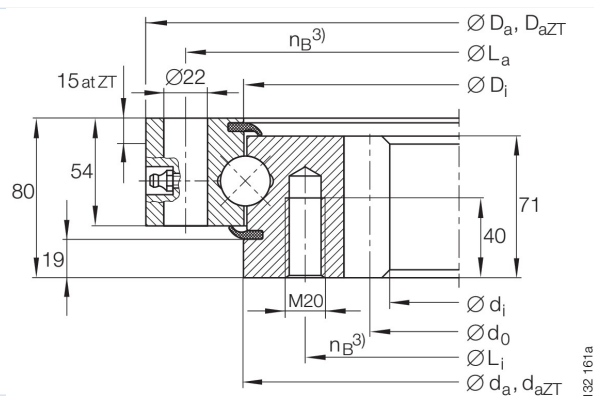
Certified for interchange with INA VSI 251055 N. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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	REFERENCE
VSI 251055 N	INA VSI 251055 N
SERIES	STRUCTURE
VSI 25 Series	Four-point contact ball
OVERALL OD	OVERALL ID
1,155 mm	910 mm
OVERALL HEIGHT	GEAR
mm	Internal gear

Published Technical Drawing



ina-g08-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 251055 N
Certified interchangeable with	INA VSI 251055 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5JWYI5GISWEXHP3TAVNMRHCJYM
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 25 Series
Reference model	VSI 251055 N
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Mass (Mass)	165 kg
Overall outside diameter (Da)	1,155 mm
Outside centring diameter (DaZT)	1,153 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall inside diameter (di)	910 mm
Catalog diameter Di (Di)	1,053 mm
Catalog diameter da (da)	1,057 mm
Catalog centring diameter daZT (daZT)	1,055 mm
MOUNTING	
Outer ring bolt circle (La)	1,115 mm
Inner ring bolt circle (Li)	994 mm
Common mounting-hole count (nB)	30
GEAR	
Gear pitch diameter (d0)	930 mm
Gear module (m)	10 mm
Gear tooth count (z)	93
PERFORMANCE	
Maximum permissible radial load (Fr perm)	363.3 kN
Normal tooth force (Fznorm)	68 kN
Maximum tooth force (Fzmax)	98.9 kN
Basic dynamic axial load rating (Ca)	520 kN
Basic static axial load rating (C0a)	3,150 kN
Basic dynamic radial load rating (Cr)	340 kN
Basic static radial load rating (C0r)	1,410 kN

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PERFORMANCE (CONTINUED)	
Radial clearance (Radial clearance)	0,03 incl. 0,13 mm
Axial tilting clearance (Axial tilting clearance)	0,05 incl. 0,24 mm
PERFORMANCE RATINGS	
Rating Radial Static	1,410 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	3,150 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	340 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	520 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	98.9 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	68 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	363.3 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	30 holes - See source drawing
Inner ring mounting	30 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	93
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf

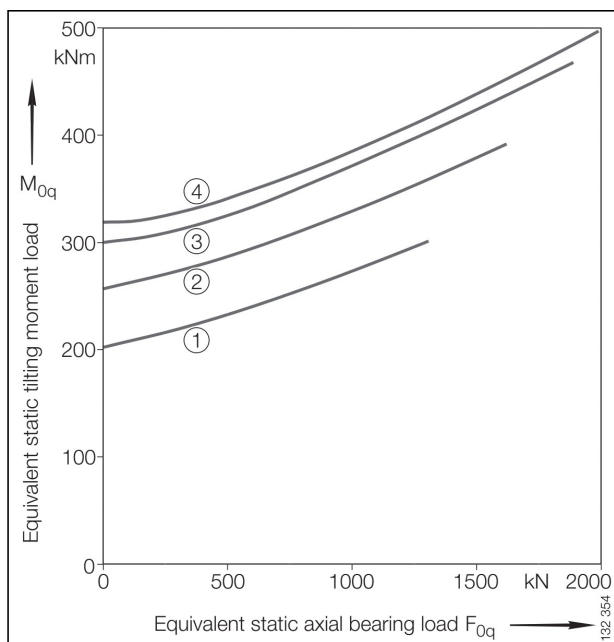
Complete Product Data

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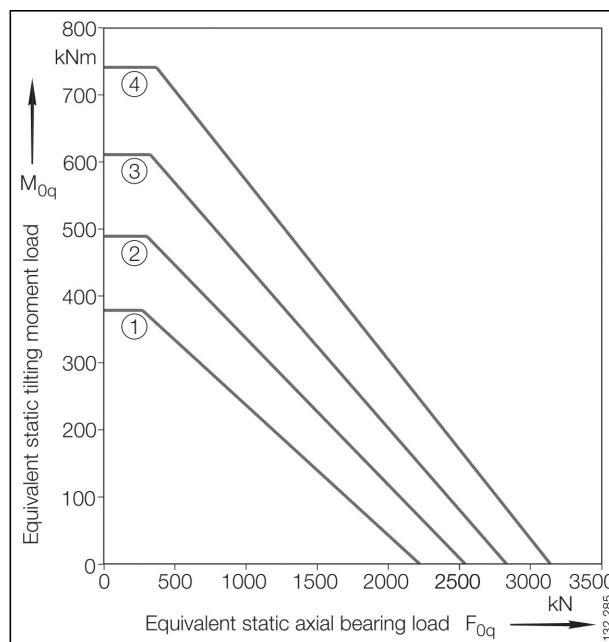
SOURCE TRACEABILITY (CONTINUED)	
PDF page	68
Printed page	66
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g08-curve.webp SHA-256: 28e671cd49b81a18c7d3ea5b26ebde06b0ab2b0eb687d72a13ccd54f7b ac79c2
Outline Drawing	ina-g08-drawing.webp SHA-256: 1187a43490ecb15604eaa22eeb67c8cd9a74d9f6e0b69a9bd92f0376d2 4d8ecc

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-g08-curve.webp | SHA-256: 28e671cd49b81a18c7d3ea5b26ebde06b0ab2b0eb687d72a13ccd54f7bac79c2

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 5JWYI5GISWEXHP3TAVNMRHCJYM	SOURCE DOCUMENT INA-SLEWING-RINGS-CATALOGUE-404-2012
SOURCE FILE 404_de_en_1.pdf	SOURCE LOCATION PDF page 68 Printed page 66
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

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/ina/vsi-251055-n/>

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