

## Factory-Verified Replacement

**MERYDOM VLI 200944 N**

Certified for interchange with INA VLI 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

VLI 200944 N

## SERIES

## VLI 20 Series

## OVERALL OD

**1,048 mm**

### OVERALL HEIGHT

mm

## REFERENCE

**INA VLI 200944 N**

## STRUCTURE

### Esferas de contato de quatro pontos

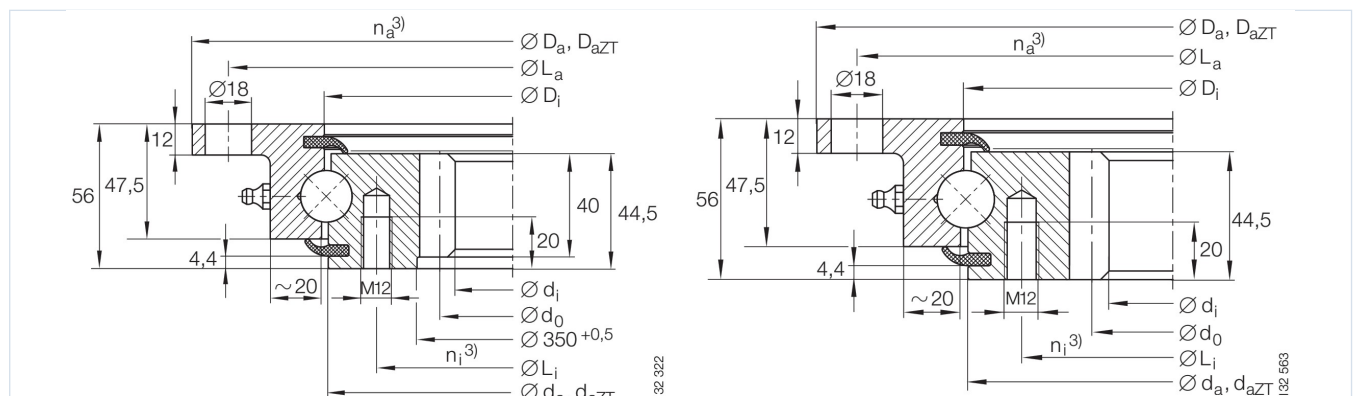
## OVERALL ID

840 mm

## GEAR

### Engrenagem interna

## Published Technical Drawing



ina-g02-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                        | VLI 200944 N                           |
| Certified interchangeable with       | INA VLI 200944 N                       |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | MNRWIPWDMG2LURIKYC23WFHL6D             |
| 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                     | VLI 20 Series                          |
| Reference model                      | VLI 200944 N                           |
| Bearing structure                    | Esferas de contato de quatro pontos    |
| Gear arrangement                     | Engrenagem interna                     |
| DIMENSION                            |                                        |
| Mass (Mass)                          | 67,5 kg                                |
| Overall outside diameter (Da)        | 1048-0,7 mm                            |
| Outside centring diameter (DaZT)     | 1.046 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)               | 1.020 mm     |
| Outer ring mounting-hole count (na)       | 16           |
| Inner ring bolt circle (Li)               | 905 mm       |
| Inner ring mounting-hole count (ni)       | 22           |
| GEAR                                      |              |
| Gear pitch diameter (d0)                  | 856 mm       |
| Gear module (m)                           | 8 mm         |
| Gear tooth count (z)                      | 107          |
| PERFORMANCE                               |              |
| Maximum permissible radial load (Fr perm) | 90,9 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)      | 670 kN       |
| Basic dynamic radial load rating (Cr)     | 151 kN       |

# Complete Product Data

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| PERFORMANCE (CONTINUED)                            |                                                              |
|----------------------------------------------------|--------------------------------------------------------------|
| Basic static radial load rating (C <sub>0r</sub> ) | 250 kN                                                       |
| PERFORMANCE RATINGS                                |                                                              |
| Rating Radial Static                               | 250 kN   Not simultaneous with other listed dynamic ratings  |
| Rating Axial Static                                | 670 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                             | 90,9 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                                |                                                              |
| Outer ring mounting                                | 16 holes - See source drawing                                |
| Inner ring mounting                                | 22 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                                           | 56                                                           |

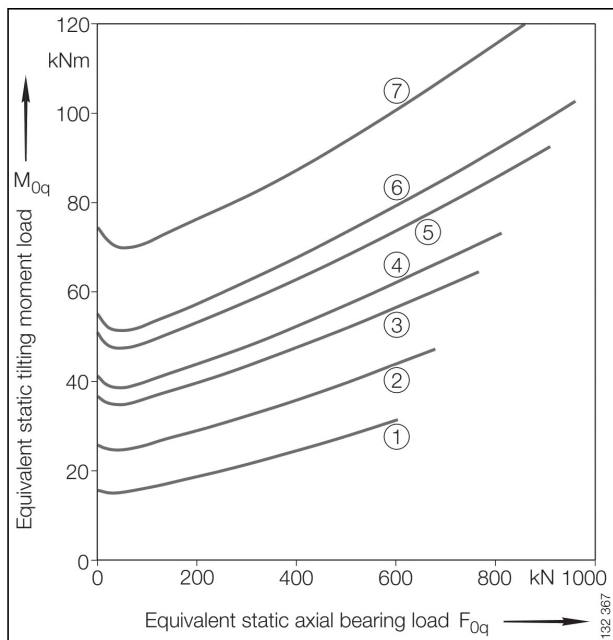
Complete Product Data

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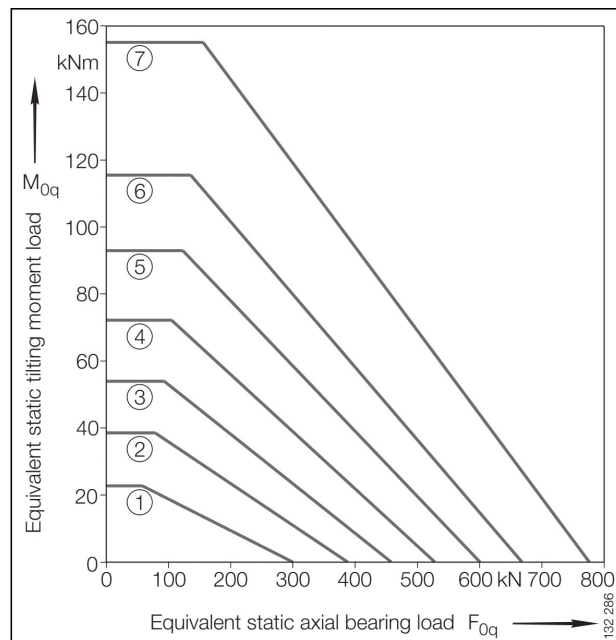
| SOURCE TRACEABILITY (CONTINUED) |                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------|
| Printed page                    | 54                                                                                                  |
| Source language                 | EN-DE                                                                                               |
| Original unit system            | Metric                                                                                              |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                     |
| Load Curve Chart                | ina-g02-curve.webp   SHA-256:<br>67b1110bb78cbb8ad73ff038dd22c2e522e8f81299dd1fd561b69d622dc87819   |
| Outline Drawing                 | ina-g02-drawing.webp   SHA-256:<br>bc168375639e36d3e8c04c1abd5d716b56de2ddddf269d674cd7d75bed7b8b1b |

## 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-g02-curve.webp | SHA-256: 67b1110bb78cbb8ad73ff038dd22c2e522e8f81299dd1fd561b69d622dc87819

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

**MNRWIPWDMG2LURIKYC23WFHL6D**

### SOURCE DOCUMENT

**INA-SLEWING-RINGS-CATALOGUE-404-2012**

### SOURCE FILE

**404\_de\_en\_1.pdf**

### SOURCE LOCATION

**PDF page 56 | Printed page 54**

### 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](mailto:jovi@merydom.com) | Email: [andi@merydom.com](mailto:andi@merydom.com) | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/pt/produtos/rolamentos-de-giro-de-substituicao/ina/vli-200944-n/>

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