

Factory-Verified Replacement

MERYDOM VR221I00

Certified for interchange with La Leonessa VR221I00. 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

VR221I00

REFERENCE

La Leonessa VR221I00

SERIES

VRI-32 Series

STRUCTURE

s ral makaral

OVERALL OD

2,218 mm

OVERALL ID

1,683.2 mm

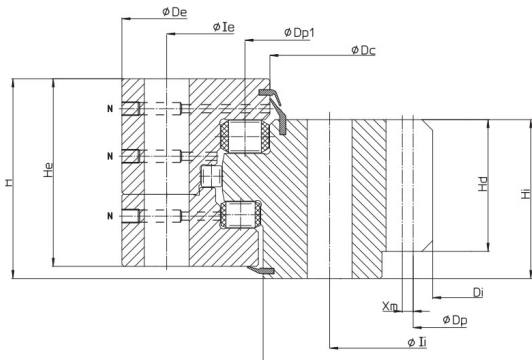
OVERALL HEIGHT

181 mm

GEAR

ten di li

Published Technical Drawing



la-leonessa-vri-32-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                        | VR221I00                               |
| Certified interchangeable with       | La Leonessa VR221I00                   |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | CFXW5C22YBIBS77JRO3BAXSULX             |
| MATERIALS                            |                                        |
| Configurable ring material options   | 42CrMo / 50Mn                          |
| Seal material                        | NBR - Nitrile rubber                   |
| Configurable spacer material options | Engineering nylon / Brass              |
| IDENTIFICATION                       |                                        |
| Reference brand                      | La Leonessa                            |
| Reference series                     | VRI-32 Series                          |
| Reference model                      | VR221I00                               |
| Bearing structure                    | s ral makaral                          |
| Gear arrangement                     | ten di li                              |
| DIMENSION                            |                                        |
| Mass (P)                             | 1 760 kg                               |
| Overall outside diameter (De)        | 2 218 mm                               |
| Overall inside diameter (Di)         | 1 683,2 mm                             |

## Complete Product Data

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| DIMENSION (CONTINUED)                       |          |
|---------------------------------------------|----------|
| Overall height (H)                          | 181 mm   |
| Dim Dc (DC)                                 | 1 959 mm |
| Dim DI (DI)                                 | 1 970 mm |
| Dim Hi (Hi)                                 | 139 mm   |
| Dim He (He)                                 | 172 mm   |
| MOUNTING                                    |          |
| Outer ring bolt circle (Ie)                 | 2 140 mm |
| Outer ring mounting-hole count (ne)         | 36       |
| Outer ring mounting-hole specification (Me) | M36      |
| Inner ring bolt circle (Ii)                 | 1 855 mm |
| Inner ring mounting-hole count (ni)         | 36       |
| Inner ring mounting-hole specification (Mi) | M36      |
| GEAR                                        |          |
| Gear pitch diameter (Dp)                    | 1 696 mm |
| Gear module (m)                             | 16 mm    |
| Gear tooth count (Z)                        | 109      |
| Addendum modification product x*m (xm)      | -8 mm    |
| Liebherr catalogue gear dimension k*m (km)  | -1,6 mm  |
| Gear Tooth Height (Hd)                      | 138 mm   |
| PERFORMANCE                                 |          |

## Complete Product Data

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| PERFORMANCE (CONTINUED)                   |                                                             |
|-------------------------------------------|-------------------------------------------------------------|
| Normal tooth force (F <sub>nom</sub> )    | 200 kN                                                      |
| Maximum tooth force (F <sub>max</sub> )   | 400 kN                                                      |
| MISCELLANEOUS                             |                                                             |
| Raceway Pitch Diameter (D <sub>p1</sub> ) | 2 000 mm                                                    |
| Lubrication Zerk Count (N)                | 6                                                           |
| PERFORMANCE RATINGS                       |                                                             |
| Rating Tooth Force Normal                 | 200 kN   Not simultaneous with other listed dynamic ratings |
| Rating Tooth Force Max                    | 400 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                       |                                                             |
| Outer ring mounting                       | 36 holes - 36; M36                                          |
| Inner ring mounting                       | 36 holes - 36; M36                                          |
| GEAR INTERFACE                            |                                                             |
| Pitch system                              | module                                                      |
| Module reference                          | 16 mm                                                       |
| Number of teeth                           | 109                                                         |
| SOURCE TRACEABILITY                       |                                                             |
| Source document code                      | LA-LEONESSA-THREE-ROW-ROLLER-CATALOG-2019                   |
| Source file                               | broc-3-giri-2019_p12.pdf                                    |
| PDF page                                  | 8                                                           |
| Printed page                              | 8                                                           |
| Source language                           | EN                                                          |

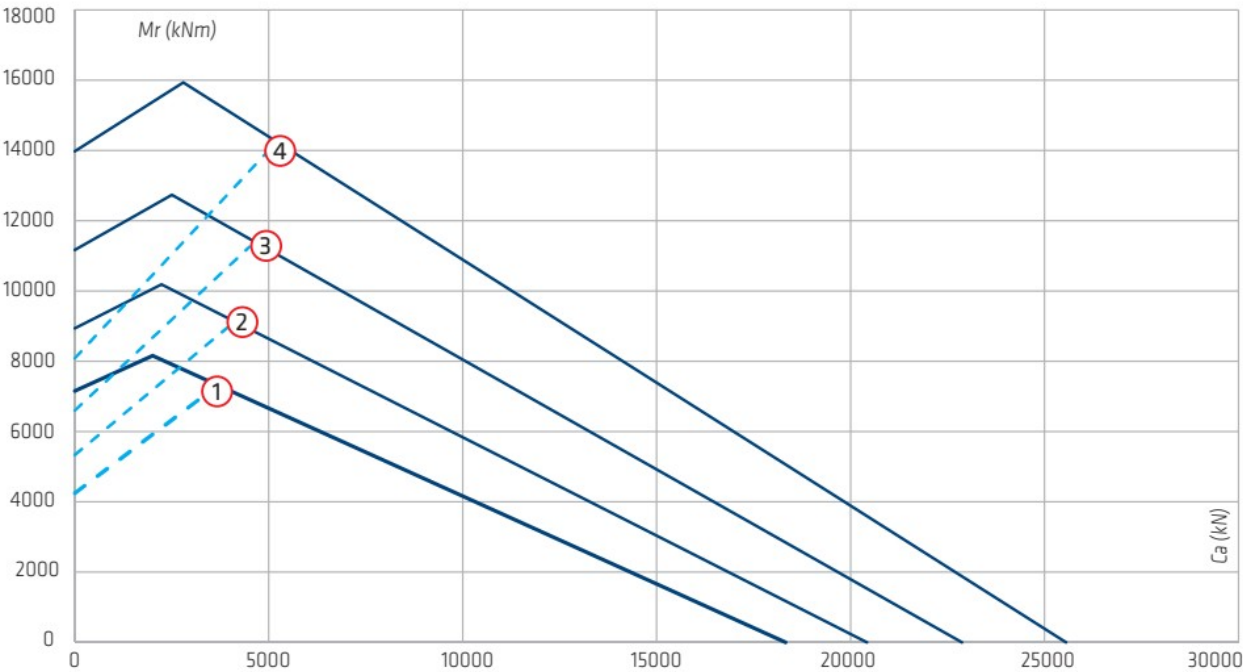
Complete Product Data

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| SOURCE TRACEABILITY (CONTINUED) |                                                                                                                              |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Original unit system            | Metric                                                                                                                       |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                                              |
| Load Curve Chart                | la-leonessa-vri-32-static_load_curve.webp   SHA-256:<br>220495f28f216cda2fb91f5a62a78678c1f6dfd0da963f96d5c88b689b<br>f79bd8 |
| Outline Drawing                 | la-leonessa-vri-32-drawing.webp   SHA-256:<br>c2b7eaec3d3c1709d5c5759306aef67b52c27d34601989f60cba8d1551<br>ff1b92           |

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.



la-leonessa-vri-32-static\_load\_curve.webp | SHA-256:  
220495f28f216cda2fb91f5a62a78678c1f6dfd0da963f96d5c88b689bf79bd8

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

**CFXW5C22YBIBS77JRO3BAXSULX**

### SOURCE FILE

**broc-3-giri-2019\_p12.pdf**

### VERIFICATION

**Level 3 - MERYDOM Engineering  
Verified**

### SOURCE DOCUMENT

**LA-LEONESSA-THREE-ROW-ROLLER-CATALOG  
-2019**

### SOURCE LOCATION

**PDF page 8 | Printed page 8**

### 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/tr/urunler/muadil-doner-tabla-rulmanlari/la-leonessa/vr221i00/>

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