

Factory-Verified Replacement

MERYDOM VR303I01

Certified for interchange with La Leonessa VR303I01. 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

VR303I01

SERIES

VRI-40 Series

OVERALL OD

3,038 mm

OVERALL HEIGHT

220 mm

REFERENCE

La Leonessa VR303I01

STRUCTURE

s ral makaral

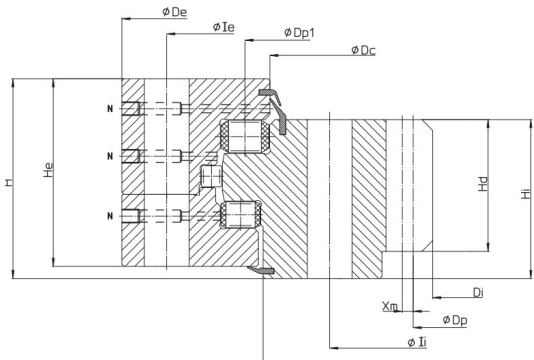
OVERALL ID

2,464 mm

GEAR

ten di li

Published Technical Drawing



la-leonessa-vri-40-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                        | VR303I01                               |
| Certified interchangeable with       | La Leonessa VR303I01                   |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | 24Y77QH3BS2TCVMJPVGLDLWPGM             |
| 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-40 Series                          |
| Reference model                      | VR303I01                               |
| Bearing structure                    | s ral makaral                          |
| Gear arrangement                     | ten di li                              |
| DIMENSION                            |                                        |
| Mass (P)                             | 3 213 kg                               |
| Overall outside diameter (De)        | 3 038 mm                               |
| Overall inside diameter (Di)         | 2 464 mm                               |

Complete Product Data

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| DIMENSION (CONTINUED)                       |          |
|---------------------------------------------|----------|
| Overall height (H)                          | 220 mm   |
| Dim Dc (DC)                                 | 2 750 mm |
| Dim DI (DI)                                 | 2 762 mm |
| Dim Hi (Hi)                                 | 170 mm   |
| Dim He (He)                                 | 210 mm   |
| MOUNTING                                    |          |
| Outer ring bolt circle (Ie)                 | 2 960 mm |
| Outer ring mounting-hole count (ne)         | 48       |
| Outer ring mounting-hole specification (Me) | M36      |
| Inner ring bolt circle (Ii)                 | 2 635 mm |
| Inner ring mounting-hole count (ni)         | 48       |
| Inner ring mounting-hole specification (Mi) | M36      |
| GEAR                                        |          |
| Gear pitch diameter (Dp)                    | 2 480 mm |
| Gear module (m)                             | 20 mm    |
| Gear tooth count (Z)                        | 124      |
| Addendum modification product x*m (xm)      | -10 mm   |
| Liebherr catalogue gear dimension k*m (km)  | -2 mm    |
| Gear Tooth Height (Hd)                      | 169 mm   |
| PERFORMANCE                                 |          |

## Complete Product Data

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| PERFORMANCE (CONTINUED)                   |                                                             |
|-------------------------------------------|-------------------------------------------------------------|
| Normal tooth force (F <sub>nom</sub> )    | 300 kN                                                      |
| Maximum tooth force (F <sub>max</sub> )   | 600 kN                                                      |
| MISCELLANEOUS                             |                                                             |
| Raceway Pitch Diameter (D <sub>p1</sub> ) | 2 800 mm                                                    |
| Lubrication Zerk Count (N)                | 8                                                           |
| PERFORMANCE RATINGS                       |                                                             |
| Rating Tooth Force Normal                 | 300 kN   Not simultaneous with other listed dynamic ratings |
| Rating Tooth Force Max                    | 600 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                       |                                                             |
| Outer ring mounting                       | 48 holes - 48; M36                                          |
| Inner ring mounting                       | 48 holes - 48; M36                                          |
| GEAR INTERFACE                            |                                                             |
| Pitch system                              | module                                                      |
| Module reference                          | 20 mm                                                       |
| Number of teeth                           | 124                                                         |
| 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                                                          |

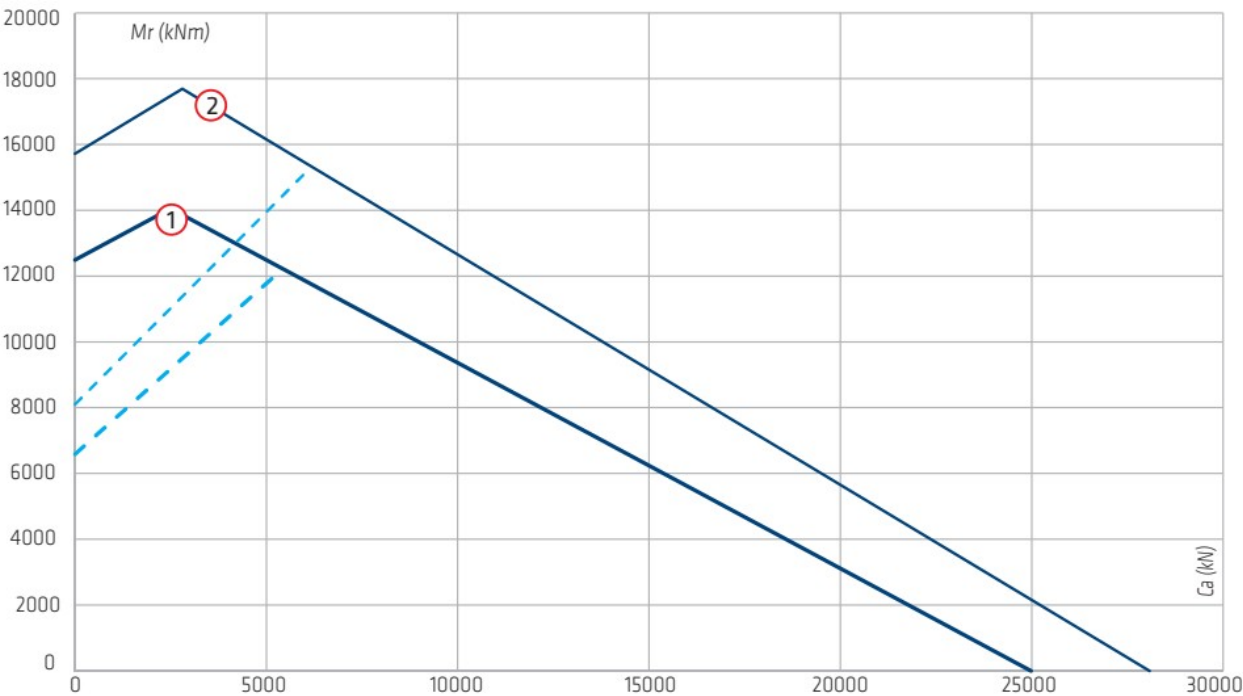
Complete Product Data

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| SOURCE TRACEABILITY (CONTINUED) |                                                                                                                          |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Original unit system            | Metric                                                                                                                   |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                                          |
| Load Curve Chart                | la-leonessa-vri-40-static_load_curve.webp   SHA-256:<br>6e02ca34fbb8476e563acad359ca74d850e99797bf2d38c53e6ec18ec6bb0ee5 |
| Outline Drawing                 | la-leonessa-vri-40-drawing.webp   SHA-256:<br>c2b7eaec3d3c1709d5c5759306aef67b52c27d34601989f60cba8d1551ff1b92           |

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-40-static\_load\_curve.webp | SHA-256:  
6e02ca34fbb8476e563acad359ca74d850e99797bf2d38c53e6ec18ec6bb0ee5

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

**24Y77QH3BS2TCVMJPVGLDLWPGM**

### 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/vr303i01/>

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