

Factory-Verified Replacement

MERYDOM V30I003

Certified for interchange with La Leonessa V30I003. 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  
**V30I003**

SERIES  
**1RI Series**

OVERALL OD  
**1,200 mm**

OVERALL HEIGHT  
**108 mm**

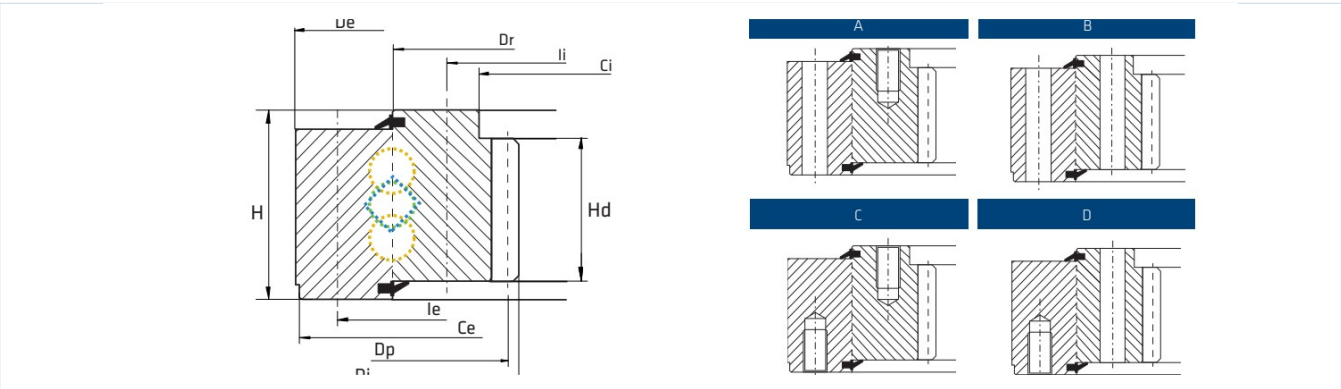
REFERENCE  
**La Leonessa V30I003**

STRUCTURE  
**Sfere a quattro punti di contatto**

OVERALL ID  
**963.5 mm**

GEAR  
**Dentatura interna**

Published Technical Drawing



la-leonessa-1ri-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                        | V30I003                                |
| Certified interchangeable with       | La Leonessa V30I003                    |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | AE2ULOWA65WQLZOEKYBZMOLZ3F             |
| 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                     | 1RI Series                             |
| Reference model                      | V30I003                                |
| Bearing structure                    | Sfere a quattro punti di contatto      |
| Gear arrangement                     | Dentatura interna                      |
| DIMENSION                            |                                        |
| Mass (P)                             | 250 kg                                 |
| Overall outside diameter (De)        | 1.200 mm                               |
| Overall inside diameter (Di)         | 963,5 mm                               |

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| DIMENSION (CONTINUED)                       |            |
|---------------------------------------------|------------|
| Overall height (H)                          | 108 mm     |
| Dim Dr (Dr)                                 | 1.089,5 mm |
| MOUNTING                                    |            |
| Outer ring bolt circle (Ie)                 | 1.160 mm   |
| Outer ring mounting-hole count (ne)         | 36         |
| Outer ring mounting-hole specification (Me) | M20        |
| Inner ring bolt circle (Ii)                 | 1.040 mm   |
| Inner ring mounting-hole count (ni)         | 36         |
| Inner ring mounting-hole specification (Mi) | M20        |
| GEAR                                        |            |
| Gear module (m)                             | 10 mm      |
| Gear tooth count (z)                        | 98         |
| Liebherr catalogue gear dimension k*m (km)  | 1,75 mm    |
| Gear pitch diameter (Dp)                    | 980 mm     |
| Gear Tooth Height (Hd)                      | 90 mm      |
| PERFORMANCE                                 |            |
| Basic static axial load rating (C0a)        | 4.660 kN   |
| Static tilting moment rating (M0r)          | 1.031 kNm  |
| Normal tooth force (Fnom)                   | 86 kN      |
| Maximum tooth force (Fmax)                  | 172 kN     |

Complete Product Data

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| MISCELLANEOUS                |                                                                |
|------------------------------|----------------------------------------------------------------|
| Pattern (Schema)             | A                                                              |
| PERFORMANCE RATINGS          |                                                                |
| Rating Axial Static          | 4.660 kN   Not simultaneous with other listed dynamic ratings  |
| Rating Tilting Moment Static | 1.031 kNm   Not simultaneous with other listed dynamic ratings |
| Rating Tooth Force Normal    | 86 kN   Not simultaneous with other listed dynamic ratings     |
| Rating Tooth Force Max       | 172 kN   Not simultaneous with other listed dynamic ratings    |
| MOUNTING INTERFACES          |                                                                |
| Outer ring mounting          | 36 holes - 36; M20                                             |
| Inner ring mounting          | 36 holes - 36; M20                                             |
| GEAR INTERFACE               |                                                                |
| Pitch system                 | module                                                         |
| Module reference             | 10 mm                                                          |
| Number of teeth              | 98                                                             |
| SOURCE TRACEABILITY          |                                                                |
| Source document code         | LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017                         |
| Source file                  | SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf                        |
| PDF page                     | 8                                                              |
| Printed page                 | 8                                                              |
| Source language              | EN                                                             |
| Original unit system         | Metric                                                         |

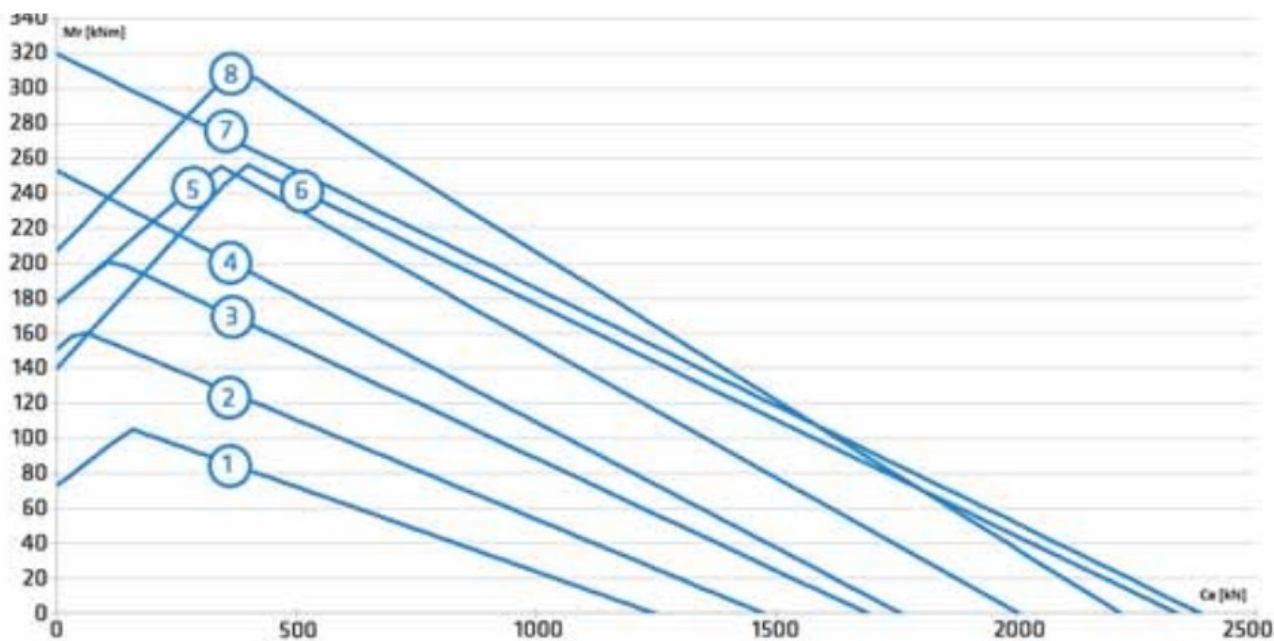
Complete Product Data

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| PUBLISHED TECHNICAL MEDIA |                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Load Curve Chart          | la-leonessa-1ri-static_load_curve.webp   SHA-256:<br>88ec75fa8bed689f66b14f5b91e2b5afb0052df21fcd350ae92760f6f677df55 |
| Outline Drawing           | la-leonessa-1ri-drawing.webp   SHA-256:<br>3c0269351f1480df2b4130d7fb5c79552a0896a4f557467d7b138da54c54c490           |

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-1ri-static\_load\_curve.webp | SHA-256:  
88ec75fa8bed689f66b14f5b91e2b5afb0052df21fcd350ae92760f6f677df55

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

**AE2ULOWA65WQLZOEKYBZMOLZ3F**

### SOURCE FILE

**SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf**

### VERIFICATION

**Level 3 - MERYDOM Engineering  
Verified**

### SOURCE DOCUMENT

**LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017**

### 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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/la-leonessa/v30i003/>

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