

Factory-Verified Replacement

MERYDOM V25E197

Certified for interchange with La Leonessa V25E197. 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

V25E197

SERIES

1RE Series

OVERALL OD

816 mm

OVERALL HEIGHT

90 mm

REFERENCE

La Leonessa V25E197

STRUCTURE

Sfere a quattro punti di contatto

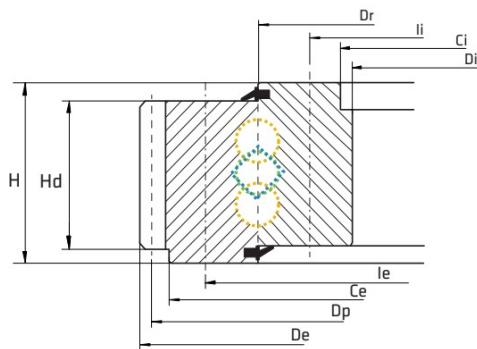
OVERALL ID

571 mm

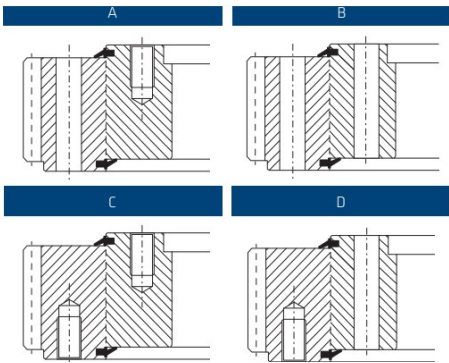
GEAR

Dentatura esterna

Published Technical Drawing



la-leonessa-1re-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                        | V25E197                                |
| Certified interchangeable with       | La Leonessa V25E197                    |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | RL4BEDWRPNUCNUV4NLRQ6RPWDS             |
| 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                     | 1RE Series                             |
| Reference model                      | V25E197                                |
| Bearing structure                    | Sfere a quattro punti di contatto      |
| Gear arrangement                     | Dentatura esterna                      |
| DIMENSION                            |                                        |
| Mass (P)                             | 118 kg                                 |
| Overall outside diameter (De)        | 816 mm                                 |
| Overall inside diameter (Di)         | 571 mm                                 |

## Complete Product Data

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| DIMENSION (CONTINUED)                              |               |
|----------------------------------------------------|---------------|
| Overall height (H)                                 | 90 mm         |
| Dim Dr (Dr)                                        | 675 mm        |
| Dim Centering External (Ce)                        | 682 +0,3/0 mm |
| Dim Centering Internal (Ci)                        | 574 +0,3/0 mm |
| MOUNTING                                           |               |
| Outer ring bolt circle (Ie)                        | 753 mm        |
| Outer ring mounting-hole count (ne)                | 18            |
| Outer ring mounting-hole specification (Me)        | M20           |
| Inner ring bolt circle (Ii)                        | 604 mm        |
| Inner ring mounting-hole count (ni)                | 18            |
| Inner ring mounting-hole specification (Mi)        | M20           |
| GEAR                                               |               |
| Gear module (m)                                    | 6 mm          |
| Gear tooth count (z)                               | 132           |
| Addendum modification product $x \cdot m$ (xm)     | 6,55 mm       |
| Liebherr catalogue gear dimension $k \cdot m$ (km) | 0,55 mm       |
| Gear pitch diameter (Dp)                           | 805,1 mm      |
| Gear Tooth Height (Hd)                             | 65 mm         |
| PERFORMANCE                                        |               |
| Basic static axial load rating (C0a)               | 2.390 kN      |

Complete Product Data

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| PERFORMANCE (CONTINUED)            |                                                               |
|------------------------------------|---------------------------------------------------------------|
| Static tilting moment rating (M0r) | 397 kNm                                                       |
| Normal tooth force (Fnom)          | 26 kN                                                         |
| Maximum tooth force (Fmax)         | 52 kN                                                         |
| MISCELLANEOUS                      |                                                               |
| Pattern (Schema)                   | B                                                             |
| PERFORMANCE RATINGS                |                                                               |
| Rating Axial Static                | 2.390 kN   Not simultaneous with other listed dynamic ratings |
| Rating Tilting Moment Static       | 397 kNm   Not simultaneous with other listed dynamic ratings  |
| Rating Tooth Force Normal          | 26 kN   Not simultaneous with other listed dynamic ratings    |
| Rating Tooth Force Max             | 52 kN   Not simultaneous with other listed dynamic ratings    |
| MOUNTING INTERFACES                |                                                               |
| Outer ring mounting                | 18 holes - 18; M20                                            |
| Inner ring mounting                | 18 holes - 18; M20                                            |
| GEAR INTERFACE                     |                                                               |
| Pitch system                       | module                                                        |
| Module reference                   | 6 mm                                                          |
| Number of teeth                    | 132                                                           |
| SOURCE TRACEABILITY                |                                                               |
| Source document code               | LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017                        |
| Source file                        | SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf                       |
| PDF page                           | 8                                                             |

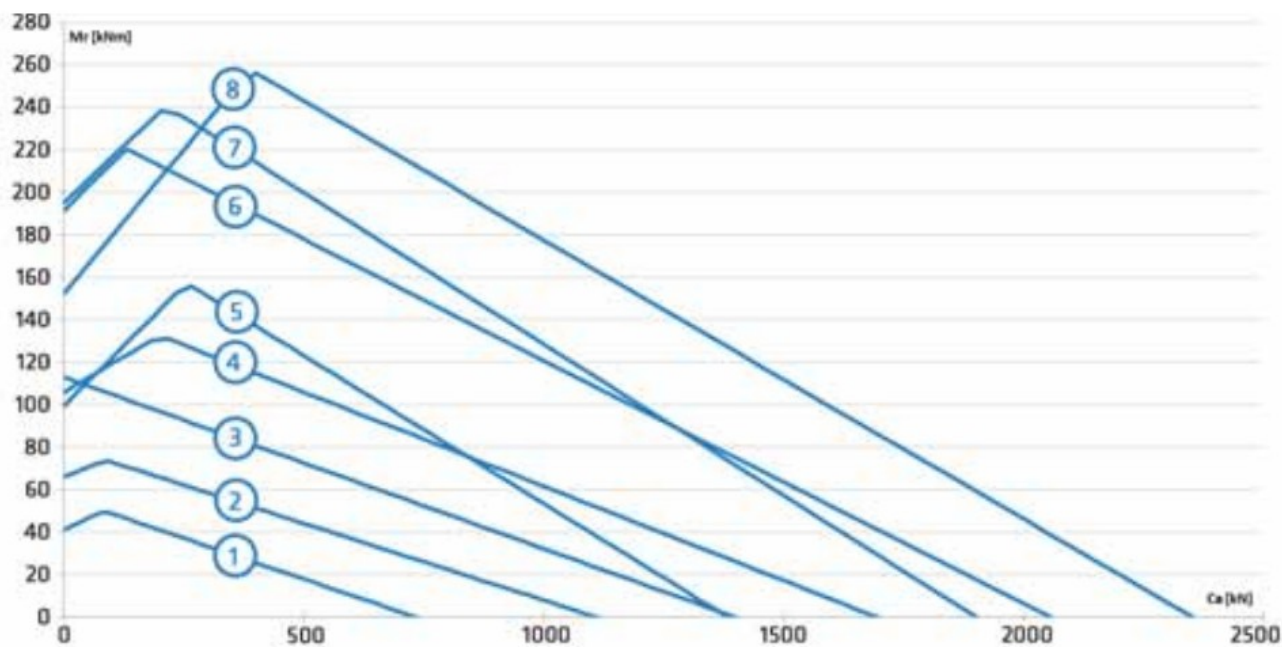
Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| SOURCE TRACEABILITY (CONTINUED) |                                                                                                                       |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Printed page                    | 8                                                                                                                     |
| Source language                 | EN                                                                                                                    |
| Original unit system            | Metric                                                                                                                |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                                       |
| Load Curve Chart                | la-leonessa-1re-static_load_curve.webp   SHA-256:<br>d7aae043a7185155fb61d59e50819f72c59987082f018cd5cc43cc5387066075 |
| Outline Drawing                 | la-leonessa-1re-drawing.webp   SHA-256:<br>9def12f376fbd9bc222f66ab0503412bd5a475fdfe624e4dbfe0ca549ea4d61f           |

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-1re-static\_load\_curve.webp | SHA-256:  
d7aae043a7185155fb61d59e50819f72c59987082f018cd5cc43cc5387066075

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

**RL4BEDWRPNUCNUV4NLRQ6RPWDS**

### SOURCE FILE

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

### VERIFICATION

**Level 3 - MERYDOM Engineering  
Verified**

### SOURCE DOCUMENT

**LA-LEONESSA-EXTERNAL-GEAR-CATALOG-20  
17**

### 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/v25e197/>

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