

Factory-Verified Replacement

MERYDOM VE114A05

Certified for interchange with La Leonessa VE114A05. 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

VE114A05

SERIES

1SE Series

OVERALL OD

1,144 mm

OVERALL HEIGHT

100 mm

REFERENCE

La Leonessa VE114A05

STRUCTURE

Sfere a quattro punti di contatto

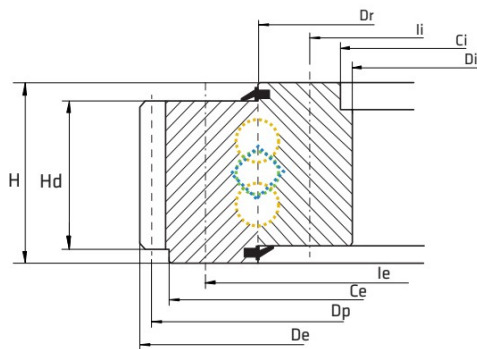
OVERALL ID

869 mm

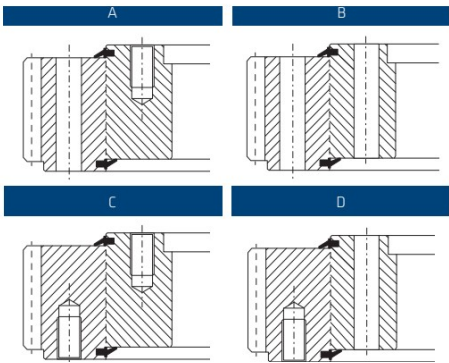
GEAR

Dentatura esterna

Published Technical Drawing



la-leonessa-1se-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                        | VE114A05                               |
| Certified interchangeable with       | La Leonessa VE114A05                   |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | KGUIOBQT5MLSDN4P7TLNX4EQQS             |
| 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                     | 1SE Series                             |
| Reference model                      | VE114A05                               |
| Bearing structure                    | Sfere a quattro punti di contatto      |
| Gear arrangement                     | Dentatura esterna                      |
| DIMENSION                            |                                        |
| Mass (P)                             | 223 kg                                 |
| Overall outside diameter (De)        | 1.144 mm                               |
| Overall inside diameter (Di)         | 869 mm                                 |

## Complete Product Data

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| DIMENSION (CONTINUED)                         |               |
|-----------------------------------------------|---------------|
| Overall height (H)                            | 100 mm        |
| Dim Dr (Dr)                                   | 979,5 mm      |
| Dim Centering External (Ce)                   | 985 +0,4/0 mm |
| Dim Centering Internal (Ci)                   | 870 +0,4/0 mm |
| MOUNTING                                      |               |
| Outer ring bolt circle (Ie)                   | 1.050 mm      |
| Outer ring mounting-hole count (ne)           | 36            |
| Outer ring mounting-hole specification (Me)   | M20           |
| Inner ring bolt circle (Ii)                   | 910 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)                          | 111           |
| Addendum modification product $x^*m$ (xm)     | 8 mm          |
| Liebherr catalogue gear dimension $k^*m$ (km) | 1 mm          |
| Gear pitch diameter (Dp)                      | 1.126 mm      |
| Gear Tooth Height (Hd)                        | 85 mm         |
| PERFORMANCE                                   |               |
| Basic static axial load rating (C0a)          | 3.450 kN      |

Complete Product Data

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| PERFORMANCE (CONTINUED)            |                                                               |
|------------------------------------|---------------------------------------------------------------|
| Static tilting moment rating (M0r) | 675 kNm                                                       |
| Normal tooth force (Fnom)          | 87 kN                                                         |
| Maximum tooth force (Fmax)         | 174 kN                                                        |
| MISCELLANEOUS                      |                                                               |
| Pattern (Schema)                   | B                                                             |
| PERFORMANCE RATINGS                |                                                               |
| Rating Axial Static                | 3.450 kN   Not simultaneous with other listed dynamic ratings |
| Rating Tilting Moment Static       | 675 kNm   Not simultaneous with other listed dynamic ratings  |
| Rating Tooth Force Normal          | 87 kN   Not simultaneous with other listed dynamic ratings    |
| Rating Tooth Force Max             | 174 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                    | 111                                                           |
| SOURCE TRACEABILITY                |                                                               |
| Source document code               | LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017                        |
| Source file                        | SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf                       |
| PDF page                           | 8                                                             |

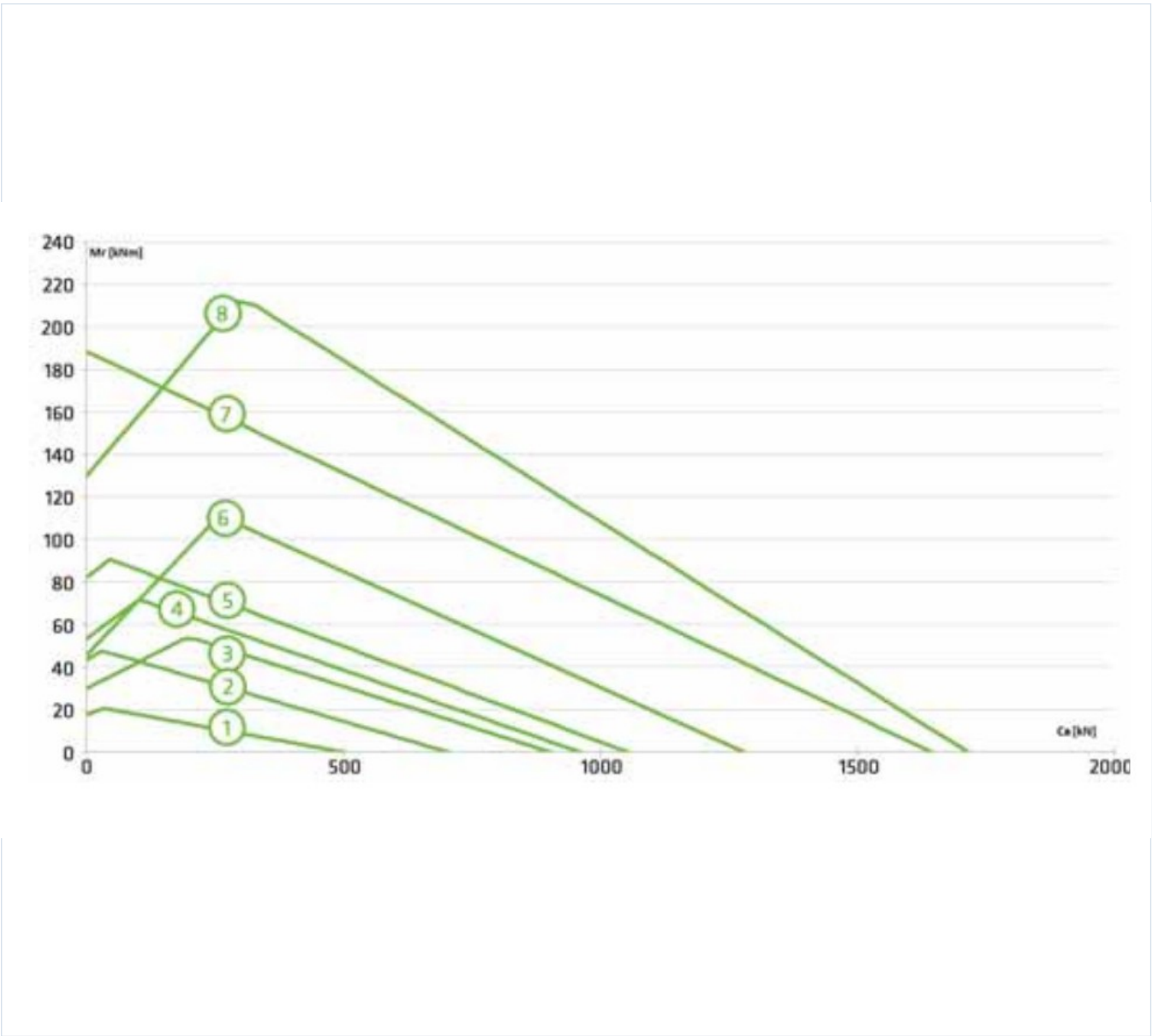
Complete Product Data

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-1se-static_load_curve.webp   SHA-256:<br>62bcb1797791d738ca65eca2203a02e0957321a0ae736fda2a8e171090a981e9 |
| Outline Drawing                 | la-leonessa-1se-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-1se-static\_load\_curve.webp | SHA-256:  
62bcb1797791d738ca65eca2203a02e0957321a0ae736fda2a8e171090a981e9

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

**KGUIOBQT5MLSDN4P7TLNX4EQQS**

### 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/ve114a05/>

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