

Factory-Verified Replacement

MERYDOM VE147B03

Certified for interchange with La Leonessa VE147B03. 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

VE147B03

SERIES

2SE Series

OVERALL OD

1,476 mm

OVERALL HEIGHT

110 mm

REFERENCE

La Leonessa VE147B03

STRUCTURE

Double-row ball

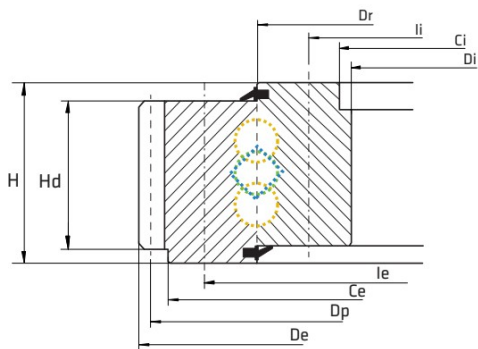
OVERALL ID

1,085 mm

GEAR

External gear

Published Technical Drawing



la-leonessa-2se-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                        | VE147B03                               |
| Certified interchangeable with       | La Leonessa VE147B03                   |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | FQXUSFEPPPLIY6A2XYEV2GON34             |
| 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                     | 2SE Series                             |
| Reference model                      | VE147B03                               |
| Bearing structure                    | Double-row ball                        |
| Gear arrangement                     | External gear                          |
| DIMENSION                            |                                        |
| Mass (P)                             | 503 kg                                 |
| Overall outside diameter (De)        | 1,476 mm                               |
| Overall inside diameter (Di)         | 1,085 mm                               |

## Complete Product Data

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| DIMENSION (CONTINUED)                       |                 |
|---------------------------------------------|-----------------|
| Overall height (H)                          | 110 mm          |
| Dim Dr (Dr)                                 | 1,247.5 mm      |
| Dim Centering External (Ce)                 | 1.415 0/-0,8 mm |
| Dim Centering Internal (Ci)                 | 1.085 +0,5/0 mm |
| MOUNTING                                    |                 |
| Outer ring bolt circle (Ie)                 | 1,350 mm        |
| Outer ring mounting-hole count (ne)         | 48              |
| Outer ring mounting-hole specification (Me) | M24             |
| Inner ring bolt circle (Ii)                 | 1,150 mm        |
| Inner ring mounting-hole count (ni)         | 48              |
| Inner ring mounting-hole specification (Mi) | M24             |
| GEAR                                        |                 |
| Gear module (m)                             | 10 mm           |
| Gear tooth count (z)                        | 144             |
| Addendum modification product x*m (xm)      | 8.6 mm          |
| Liebherr catalogue gear dimension k*m (km)  | 0.6 mm          |
| Gear pitch diameter (Dp)                    | 1,457.2 mm      |
| Gear Tooth Height (Hd)                      | 89 mm           |
| PERFORMANCE                                 |                 |
| Basic static axial load rating (C0a)        | 6,100 kN        |

# 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.

| PERFORMANCE (CONTINUED)            |                                                                |
|------------------------------------|----------------------------------------------------------------|
| Static tilting moment rating (M0r) | 1,928 kNm                                                      |
| Normal tooth force (Fnom)          | 77 kN                                                          |
| Maximum tooth force (Fmax)         | 155 kN                                                         |
| MISCELLANEOUS                      |                                                                |
| Pattern (Schema)                   | B                                                              |
| PERFORMANCE RATINGS                |                                                                |
| Rating Axial Static                | 6,100 kN   Not simultaneous with other listed dynamic ratings  |
| Rating Tilting Moment Static       | 1,928 kNm   Not simultaneous with other listed dynamic ratings |
| Rating Tooth Force Normal          | 77 kN   Not simultaneous with other listed dynamic ratings     |
| Rating Tooth Force Max             | 155 kN   Not simultaneous with other listed dynamic ratings    |
| MOUNTING INTERFACES                |                                                                |
| Outer ring mounting                | 48 holes - 48; M24                                             |
| Inner ring mounting                | 48 holes - 48; M24                                             |
| GEAR INTERFACE                     |                                                                |
| Pitch system                       | module                                                         |
| Module reference                   | 10 mm                                                          |
| Number of teeth                    | 144                                                            |
| 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-2se-static_load_curve.webp   SHA-256:<br>0056d7fd4ded2922ffa0000f4b2784841e0dbba7de039b531b9334852625cba1 |
| Outline Drawing                 | la-leonessa-2se-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-2se-static\_load\_curve.webp | SHA-256:  
0056d7fd4ded2922ffa0000f4b2784841e0dbba7de039b531b9334852625cba1

Engineering note: final approval must also consider mounting rigidity, bolt capacity, duty cycle, lubrication, temperature, environment and installation conditions.

Source and Verification Traceability

|                                                                           |                                                                              |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>FQXUSFEPPLIY6A2XYEV2GON34</div>         | <div>SOURCE DOCUMENT</div> <div>LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017</div> |
| <div>SOURCE FILE</div> <div>SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf</div> | <div>SOURCE LOCATION</div> <div>PDF page 8   Printed page 8</div>            |
| <div>VERIFICATION</div> <div>Level 3 - MERYDOM Engineering Verified</div> | <div>REVIEWED BY</div> <div>MERYDOM Engineering Department</div>             |

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 | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/la-leonessa/ve147b03/>

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