

Factory-Verified Replacement

MERYDOM VI097B06

Certified for interchange with La Leonessa VI097B06. 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

VI097B06

SERIES

2SI Series

OVERALL OD

976 mm

OVERALL HEIGHT

97 mm

REFERENCE

La Leonessa VI097B06

STRUCTURE

Double-row ball

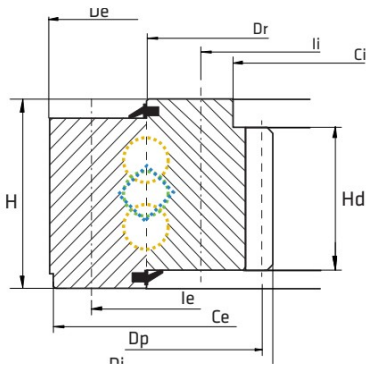
OVERALL ID

786 mm

GEAR

Internal gear

Published Technical Drawing



la-leonessa-2si-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                        | VI097B06                               |
| Certified interchangeable with       | La Leonessa VI097B06                   |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | HT3QQUTVMWQGZVJ6ESSFFSAUSJ             |
| 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                     | 2SI Series                             |
| Reference model                      | VI097B06                               |
| Bearing structure                    | Double-row ball                        |
| Gear arrangement                     | Internal gear                          |
| DIMENSION                            |                                        |
| Mass (P)                             | 152 kg                                 |
| Overall outside diameter (De)        | 976 mm                                 |
| Overall inside diameter (Di)         | 786 mm                                 |

## Complete Product Data

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| DIMENSION (CONTINUED)                       |          |
|---------------------------------------------|----------|
| Overall height (H)                          | 97 mm    |
| Dim Dr (Dr)                                 | 897 mm   |
| MOUNTING                                    |          |
| Outer ring bolt circle (Ie)                 | 944 mm   |
| Outer ring mounting-hole count (ne)         | 36       |
| Outer ring mounting-hole specification (Me) | M16      |
| Inner ring bolt circle (Ii)                 | 850 mm   |
| Inner ring mounting-hole count (ni)         | 36       |
| Inner ring mounting-hole specification (Mi) | M16      |
| GEAR                                        |          |
| Gear module (m)                             | 8 mm     |
| Gear tooth count (z)                        | 100      |
| Liebherr catalogue gear dimension k*m (km)  | 1 mm     |
| Gear pitch diameter (Dp)                    | 800 mm   |
| Gear Tooth Height (Hd)                      | 80 mm    |
| PERFORMANCE                                 |          |
| Basic static axial load rating (C0a)        | 2,980 kN |
| Static tilting moment rating (M0r)          | 770 kNm  |
| Normal tooth force (Fnom)                   | 56 kN    |
| Maximum tooth force (Fmax)                  | 112 kN   |

Complete Product Data

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| MISCELLANEOUS                |                                                               |
|------------------------------|---------------------------------------------------------------|
| Pattern (Schema)             | B                                                             |
| PERFORMANCE RATINGS          |                                                               |
| Rating Axial Static          | 2,980 kN   Not simultaneous with other listed dynamic ratings |
| Rating Tilting Moment Static | 770 kNm   Not simultaneous with other listed dynamic ratings  |
| Rating Tooth Force Normal    | 56 kN   Not simultaneous with other listed dynamic ratings    |
| Rating Tooth Force Max       | 112 kN   Not simultaneous with other listed dynamic ratings   |
| MOUNTING INTERFACES          |                                                               |
| Outer ring mounting          | 36 holes - 36; M16                                            |
| Inner ring mounting          | 36 holes - 36; M16                                            |
| GEAR INTERFACE               |                                                               |
| Pitch system                 | module                                                        |
| Module reference             | 8 mm                                                          |
| Number of teeth              | 100                                                           |
| 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

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

| PUBLISHED TECHNICAL MEDIA |                                                                                                                       |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Load Curve Chart          | la-leonessa-2si-static_load_curve.webp   SHA-256:<br>2d07d5007c414f54f7e8476084d020a30af3af05a960e7f690827754e00574cb |
| Outline Drawing           | la-leonessa-2si-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-2si-static\_load\_curve.webp | SHA-256:  
2d07d5007c414f54f7e8476084d020a30af3af05a960e7f690827754e00574cb

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>HT3QQUTVMWQGZVJ6ESSFFSAUSJ</div>        | <div>SOURCE DOCUMENT</div> <div>LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017</div> |
| <div>SOURCE FILE</div> <div>SLEWING-BEARINGS-WITH-INTERNAL-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/vi097b06/>

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