

Factory-Verified Replacement

MERYDOM VI147A02

Certified for interchange with La Leonessa VI147A02. 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

VI147A02

SERIES

1SI Series

OVERALL OD

1,470 mm

OVERALL HEIGHT

108 mm

REFERENCE

La Leonessa VI147A02

STRUCTURE

Four-point contact ball

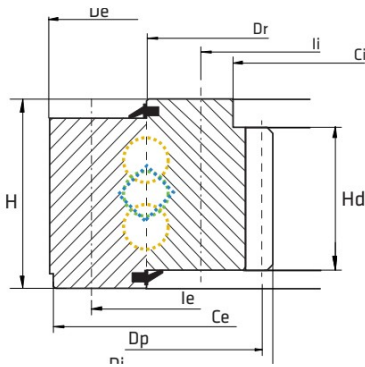
OVERALL ID

1,183 mm

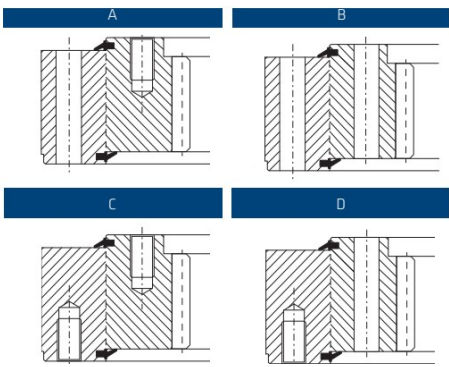
GEAR

Internal gear

Published Technical Drawing



la-leonessa-1si-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	VI147A02
Certified interchangeable with	La Leonessa VI147A02
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5HYIOUVMUPFLJPUKP3AXOF3OGJ
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	1SI Series
Reference model	VI147A02
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Mass (P)	350 kg
Overall outside diameter (De)	1,470 mm
Overall inside diameter (Di)	1,183 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	108 mm
Dim Dr (Dr)	1,350.5 mm
Dim Centering External (Ce)	1.460 0/-0,4 mm
Dim Centering Internal (Ci)	1.230 0/+0,4 mm
MOUNTING	
Outer ring bolt circle (Ie)	1,425 mm
Outer ring mounting-hole count (ne)	40
Outer ring mounting-hole specification (Me)	M22
Inner ring bolt circle (Ii)	1,270 mm
Inner ring mounting-hole count (ni)	40
Inner ring mounting-hole specification (Mi)	M24
GEAR	
Gear module (m)	10 mm
Gear tooth count (z)	120
Liebherr catalogue gear dimension k*m (km)	1.5 mm
Gear pitch diameter (Dp)	1,200 mm
Gear Tooth Height (Hd)	90 mm
Gear Hardening Indicator (Tempa)	
PERFORMANCE	
Basic static axial load rating (C0a)	5,200 kN

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PERFORMANCE (CONTINUED)	
Static tilting moment rating (M0r)	1,305 kNm
Normal tooth force (Fnom)	107 kN
Maximum tooth force (Fmax)	214 kN
MISCELLANEOUS	
Pattern (Schema)	A
PERFORMANCE RATINGS	
Rating Axial Static	5,200 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	1,305 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	107 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	214 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	40 holes - 40; M22
Inner ring mounting	40 holes - 40; M24
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	120
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf

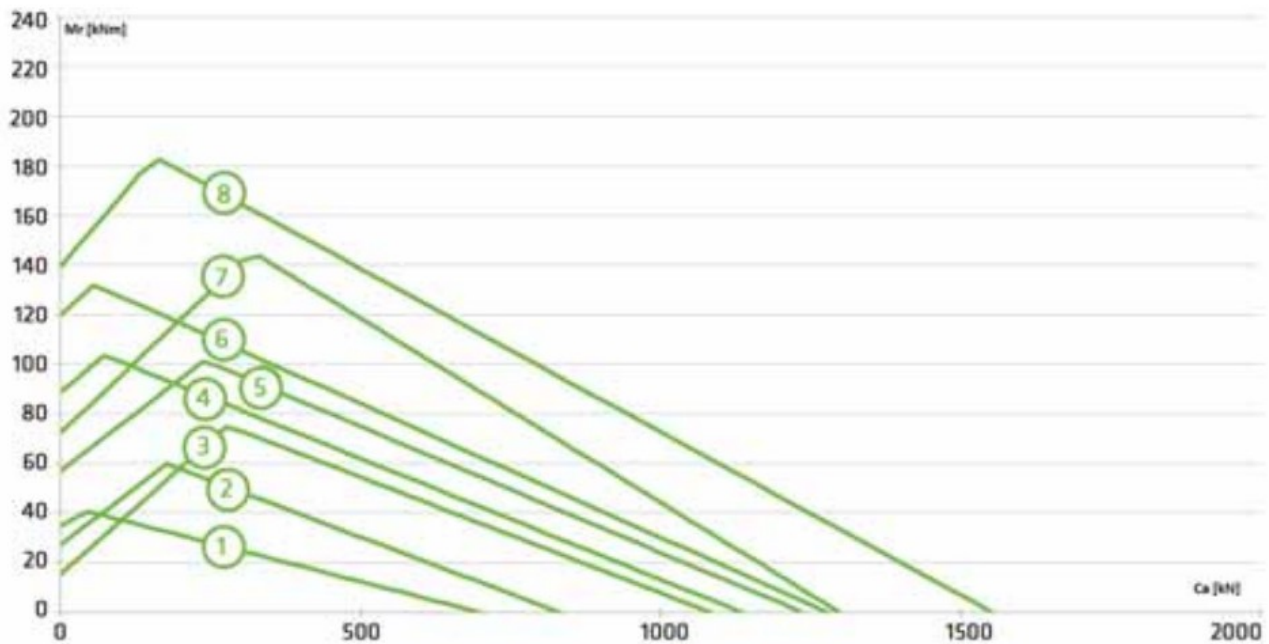
Complete Product Data

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)	
PDF page	8
Printed page	8
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	la-leonessa-1si-static_load_curve.webp SHA-256: 0b170a48507420b5ae37a22d4354cc69ba563923e9226723d7a4253fd72d5189
Outline Drawing	la-leonessa-1si-drawing.webp SHA-256: 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-1si-static_load_curve.webp | SHA-256:
0b170a48507420b5ae37a22d4354cc69ba563923e9226723d7a4253fd72d5189

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 5HYIOUVMUPFLJPUKP3AXOF3OGJ	SOURCE DOCUMENT LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017
SOURCE FILE SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf	SOURCE LOCATION PDF page 8 Printed page 8
VERIFICATION Level 3 - MERYDOM Engineering Verified	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 | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/la-leonessa/vi147a02/>

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