

Factory-Verified Replacement

MERYDOM VI175A02

Certified for interchange with La Leonessa VI175A02. 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

VI175A02

SERIES

1SI Series

OVERALL OD

1,753 mm

OVERALL HEIGHT

127 mm

REFERENCE

La Leonessa VI175A02

STRUCTURE

Sfere a quattro punti di contatto

OVERALL ID

1,400 mm

GEAR

Dentatura interna

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	VI175A02
Certified interchangeable with	La Leonessa VI175A02
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	4YAVYT3EHCYEH3PB5APDJRHA2Y
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	VI175A02
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura interna
DIMENSION	
Mass (P)	625 kg
Overall outside diameter (De)	1.753 mm
Overall inside diameter (Di)	1.400 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	127 mm
Dim Dr (Dr)	1.612,5 mm
Dim Centering External (Ce)	1.750 0/-0,44 mm
MOUNTING	
Outer ring bolt circle (Ie)	1.700 mm
Outer ring mounting-hole count (ne)	52
Outer ring mounting-hole specification (Me)	M20
Inner ring bolt circle (Ii)	1.526 mm
Inner ring mounting-hole count (ni)	52
Inner ring mounting-hole specification (Mi)	M20
GEAR	
Gear module (m)	14 mm
Gear tooth count (z)	101
Addendum modification product x*m (xm)	7 mm
Gear pitch diameter (Dp)	1.428 mm
Gear Tooth Height (Hd)	118 mm
PERFORMANCE	
Basic static axial load rating (C0a)	8.060 kN
Static tilting moment rating (M0r)	3.415 kNm
Normal tooth force (Fnom)	180 kN

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PERFORMANCE (CONTINUED)	
Maximum tooth force (Fmax)	360 kN
MISCELLANEOUS	
Pattern (Schema)	C
PERFORMANCE RATINGS	
Rating Axial Static	8.060 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	3.415 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	180 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	360 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	52 holes - 52; M20
Inner ring mounting	52 holes - 52; M20
GEAR INTERFACE	
Pitch system	module
Module reference	14 mm
Number of teeth	101
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf
PDF page	12
Printed page	12
Source language	EN

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)	
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

4YAVYT3EHCYEH3PB5APDJRHA2Y

SOURCE FILE

SLEWING-BEARINGS-WITH-INTERNAL-GEAR.
pdf

VERIFICATION

Level 3 - MERYDOM Engineering
Verified

SOURCE DOCUMENT

LA-LEONESSA-INTERNAL-GEAR-CATALOG-20
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SOURCE LOCATION

PDF page 12 | Printed page 12

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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/la-leonessa/vi175a02/>

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