

Factory-Verified Replacement

MERYDOM VI175B03

Certified for interchange with La Leonessa VI175B03. 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

VI175B03

SERIES

2SI Series

OVERALL OD

1,750 mm

OVERALL HEIGHT

120 mm

REFERENCE

La Leonessa VI175B03

STRUCTURE

Double-row ball

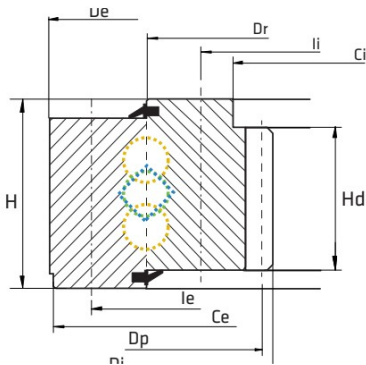
OVERALL ID

1,419 mm

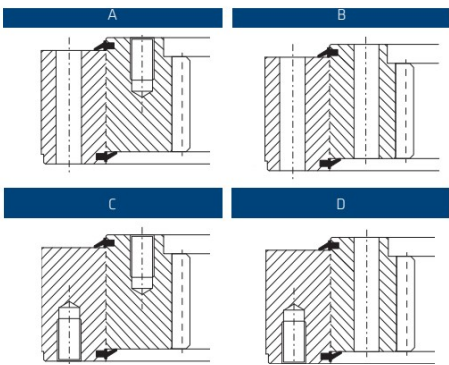
GEAR

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	VI175B03
Certified interchangeable with	La Leonessa VI175B03
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	O5XP36JPAWUWUNPUBSFLPQUB4L
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	VI175B03
Bearing structure	Double-row ball
Gear arrangement	Internal gear
DIMENSION	
Mass (P)	599 kg
Overall outside diameter (De)	1,750 mm
Overall inside diameter (Di)	1,419 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	120 mm
Dim Dr (Dr)	1,614.5 mm
Dim Centering External (Ce)	1.750 0/-0,5 mm
Dim Centering Internal (Ci)	1.470/+0,5/0 mm
MOUNTING	
Outer ring bolt circle (Ie)	1,705 mm
Outer ring mounting-hole count (ne)	48
Outer ring mounting-hole specification (Me)	M24
Inner ring bolt circle (Ii)	1,525 mm
Inner ring mounting-hole count (ni)	48
Inner ring mounting-hole specification (Mi)	M24
GEAR	
Gear module (m)	12 mm
Gear tooth count (z)	120
Liebherr catalogue gear dimension k*m (km)	1.5 mm
Gear pitch diameter (Dp)	1,440 mm
Gear Tooth Height (Hd)	98 mm
PERFORMANCE	
Basic static axial load rating (C0a)	8,190 kN
Static tilting moment rating (M0r)	3,036 kNm

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PERFORMANCE (CONTINUED)	
Normal tooth force (F _{nom})	135 kN
Maximum tooth force (F _{max})	270 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	8,190 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	3,036 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	135 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	270 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	12 mm
Number of teeth	120
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

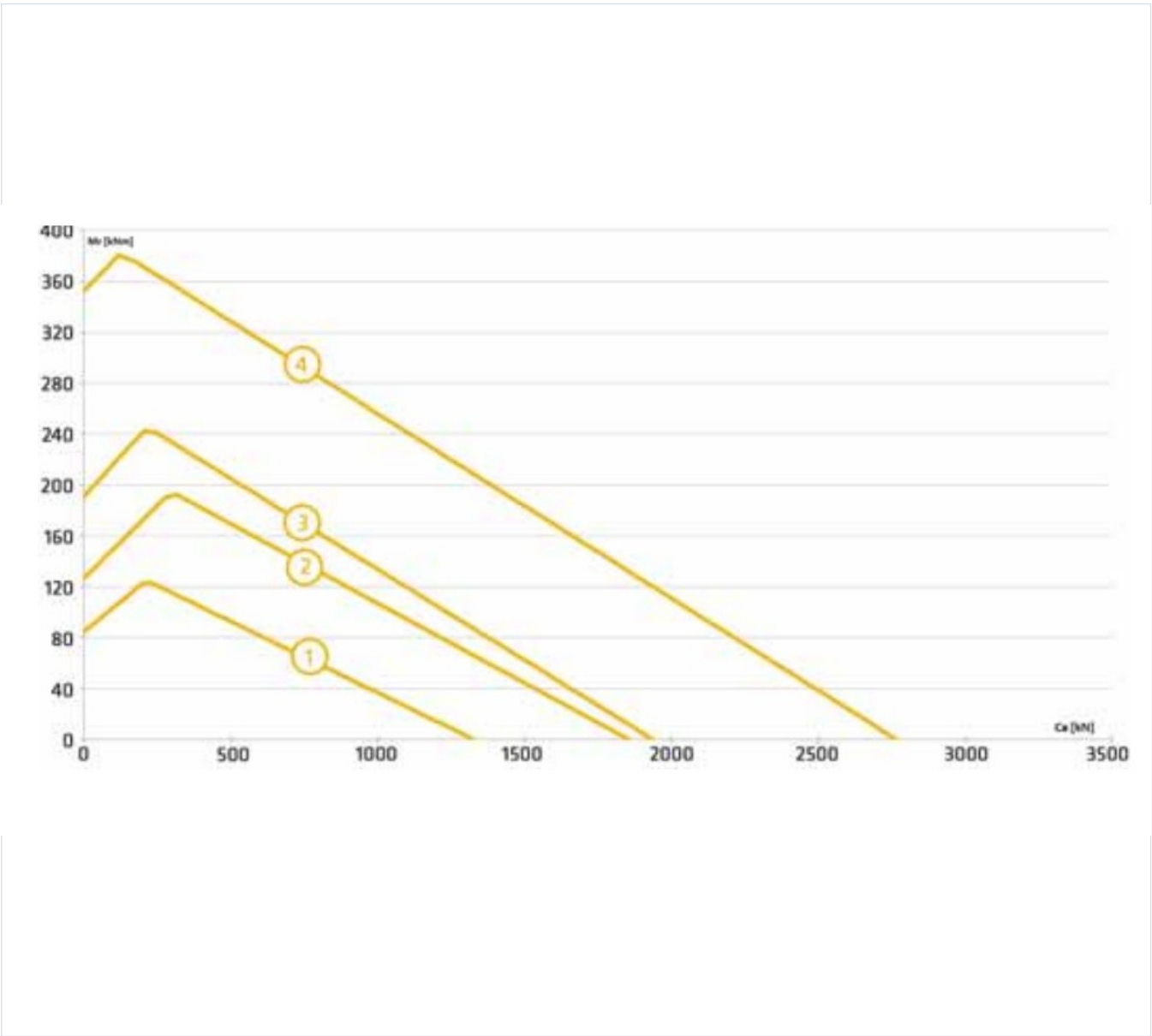
Complete Product Data

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)	
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	la-leonessa-2si-static_load_curve.webp SHA-256: 2d07d5007c414f54f7e8476084d020a30af3af05a960e7f690827754e00574cb
Outline Drawing	la-leonessa-2si-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-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

PUBLIC RECORD UID O5XP36JPAWUWUNPUBSFLPQUB4L	SOURCE DOCUMENT LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017
SOURCE FILE SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf	SOURCE LOCATION PDF page 12 Printed page 12
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

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/la-leonessa/vi175b03/>

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