

Factory-Verified Replacement

MERYDOM VI142A01

Certified for interchange with La Leonessa VI142A01. 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

VI142A01

SERIES

1SI Series

OVERALL OD

1,427 mm

OVERALL HEIGHT

89 mm

REFERENCE

La Leonessa VI142A01

STRUCTURE

Four-point contact ball

OVERALL ID

1,184 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	VI142A01
Certified interchangeable with	La Leonessa VI142A01
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	GP66PLDUTOBPI2C33C4WQGUNTU
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	VI142A01
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Mass (P)	260 kg
Overall outside diameter (De)	1,427 mm
Overall inside diameter (Di)	1,184 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	89 mm
Dim Dr (Dr)	1,324.5 mm
Dim Centering External (Ce)	1.425 0/-0,4 mm
Dim Centering Internal (Ci)	1.321 0/-0,4 mm
MOUNTING	
Outer ring bolt circle (Ie)	1,390 mm
Outer ring mounting-hole count (ne)	18
Outer ring mounting-hole specification (Me)	M20
Inner ring bolt circle (Ii)	1,255 mm
Inner ring mounting-hole count (ni)	18
Inner ring mounting-hole specification (Mi)	M20
GEAR	
Gear module (m)	8 mm
Gear tooth count (z)	150
Gear pitch diameter (Dp)	1,200 mm
Gear Tooth Height (Hd)	70 mm
PERFORMANCE	
Basic static axial load rating (C0a)	4,330 kN
Static tilting moment rating (M0r)	1,050 kNm
Normal tooth force (Fnom)	63 kN

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PERFORMANCE (CONTINUED)	
Maximum tooth force (Fmax)	126 kN
MISCELLANEOUS	
Pattern (Schema)	A
PERFORMANCE RATINGS	
Rating Axial Static	4,330 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	1,050 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	63 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	126 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	18 holes - 18; M20
Inner ring mounting	18 holes - 18; M20
GEAR INTERFACE	
Pitch system	module
Module reference	8 mm
Number of teeth	150
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

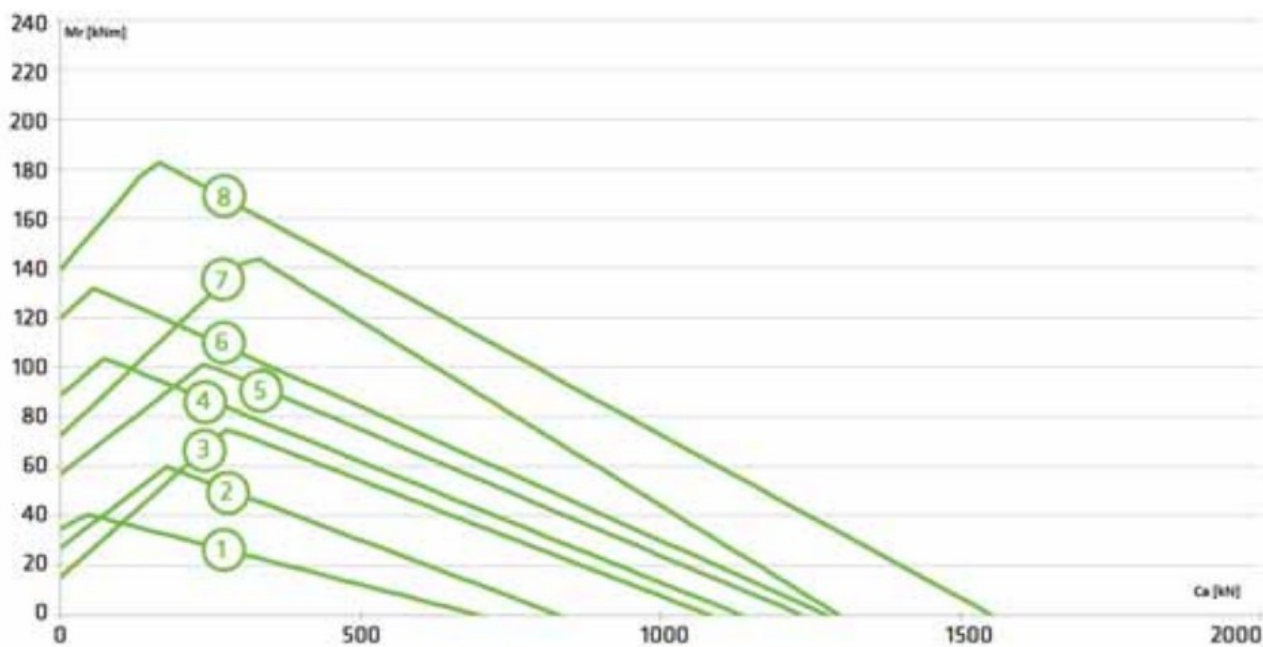
Complete Product Data

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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 GP66PLDUTOBPI2C33C4WQGUNTU	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

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/la-leonessa/vi142a01/>

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