

Factory-Verified Replacement

MERYDOM V18I082

Certified for interchange with La Leonessa V18I082. 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

V18I082

SERIES

1RI Series

OVERALL OD

562 mm

OVERALL HEIGHT

60 mm

REFERENCE

La Leonessa V18I082

STRUCTURE

Four-point contact ball

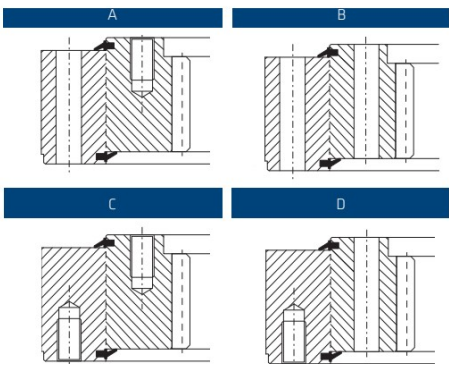
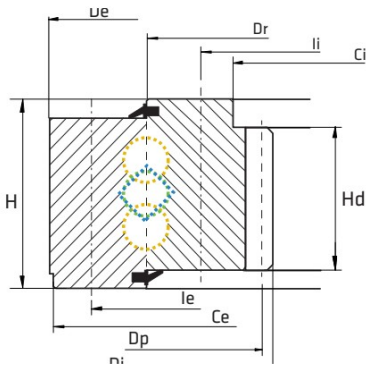
OVERALL ID

385 mm

GEAR

Internal gear

Published Technical Drawing



la-leonessa-1ri-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	V18I082
Certified interchangeable with	La Leonessa V18I082
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	JIPNMW3TIJ3EJL3R3F6JYV66
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	1RI Series
Reference model	V18I082
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Mass (P)	45 kg
Overall outside diameter (De)	562 mm
Overall inside diameter (Di)	385 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	60 mm
Dim Dr (Dr)	488 mm
Dim Centering External (Ce)	560 0/-0,3 mm
Dim Centering Internal (Ci)	418 +0,3/0 mm
MOUNTING	
Outer ring bolt circle (Ie)	538 mm
Outer ring mounting-hole count (ne)	30
Outer ring mounting-hole specification (Me)	M12
Inner ring bolt circle (Ii)	440 mm
Inner ring mounting-hole count (ni)	30
Inner ring mounting-hole specification (Mi)	M12
GEAR	
Gear module (m)	6 mm
Gear tooth count (z)	66
Liebherr catalogue gear dimension k*m (km)	0.5 mm
Gear pitch diameter (Dp)	396 mm
Gear Tooth Height (Hd)	45 mm
PERFORMANCE	
Basic static axial load rating (C0a)	1,240 kN
Static tilting moment rating (M0r)	120 kNm

Complete Product Data

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PERFORMANCE (CONTINUED)	
Normal tooth force (Fnom)	19 kN
Maximum tooth force (Fmax)	38 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	1,240 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	120 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	19 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	38 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	30 holes - 30; M12
Inner ring mounting	30 holes - 30; M12
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	66
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf
PDF page	4
Printed page	4

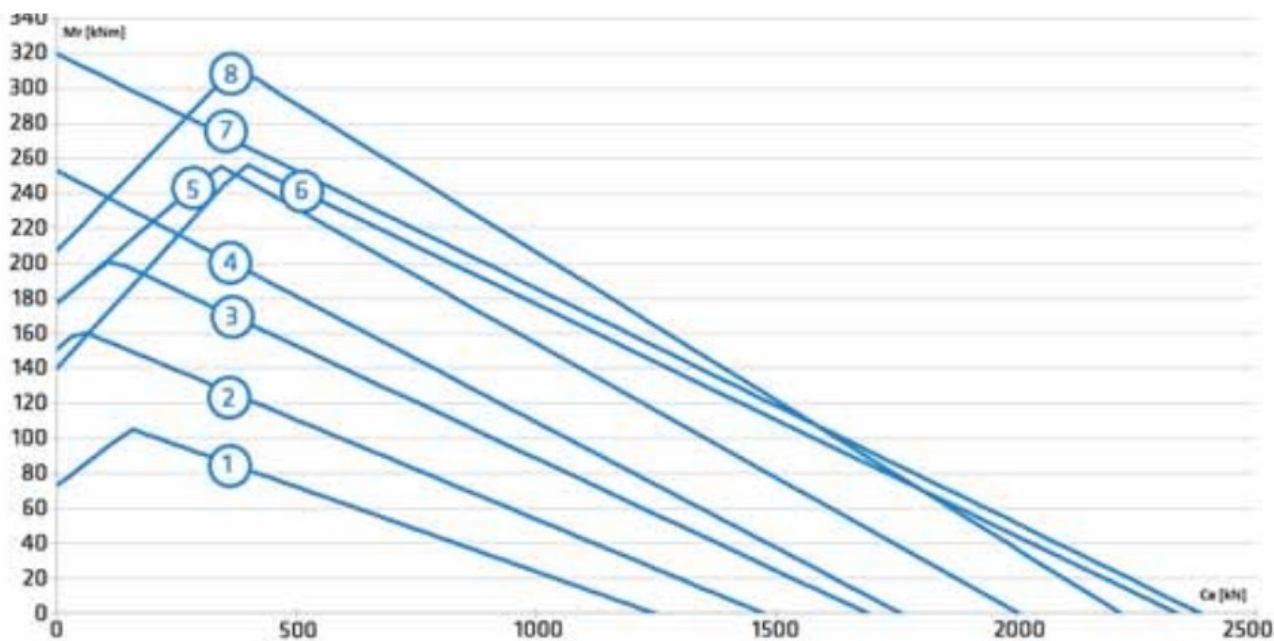
Complete Product Data

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-1ri-static_load_curve.webp SHA-256: 88ec75fa8bed689f66b14f5b91e2b5afb0052df21fcd350ae92760f6f677df55
Outline Drawing	la-leonessa-1ri-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-1ri-static_load_curve.webp | SHA-256:
88ec75fa8bed689f66b14f5b91e2b5afb0052df21fcd350ae92760f6f677df55

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 JIPNMW3TIJ3EJL3R3F6JYV66	SOURCE DOCUMENT LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017
SOURCE FILE SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf	SOURCE LOCATION PDF page 4 Printed page 4
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/v18i082/>

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