

Factory-Verified Replacement

MERYDOM V18I089

Certified for interchange with La Leonessa V18I089. 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

V18I089

SERIES

1RI Series

OVERALL OD

665 mm

OVERALL HEIGHT

60 mm

REFERENCE

La Leonessa V18I089

STRUCTURE

Sfere a quattro punti di contatto

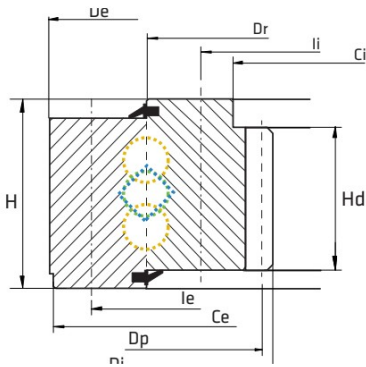
OVERALL ID

457 mm

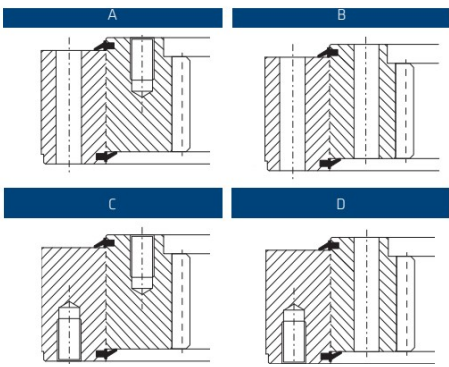
GEAR

Dentatura interna

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	V18I089
Certified interchangeable with	La Leonessa V18I089
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5PHEVKYHRJOXXDFHM3JJIO3AR4
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	V18I089
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura interna
DIMENSION	
Mass (P)	62 kg
Overall outside diameter (De)	665 mm
Overall inside diameter (Di)	457 mm

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.

DIMENSION (CONTINUED)	
Overall height (H)	60 mm
Dim Dr (Dr)	574 mm
Dim Centering External (Ce)	660 0/-0,3 mm
Dim Centering Internal (Ci)	485 +0,3/0 mm
MOUNTING	
Outer ring bolt circle (Ie)	630 mm
Outer ring mounting-hole count (ne)	28
Outer ring mounting-hole specification (Me)	M16
Inner ring bolt circle (Ii)	517 mm
Inner ring mounting-hole count (ni)	28
Inner ring mounting-hole specification (Mi)	M16
GEAR	
Gear module (m)	6 mm
Gear tooth count (z)	77
Addendum modification product x*m (xm)	3 mm
Liebherr catalogue gear dimension k*m (km)	0,5 mm
Gear pitch diameter (Dp)	468 mm
Gear Tooth Height (Hd)	45 mm
Gear Hardening Indicator (Tempa)	
PERFORMANCE	

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.

PERFORMANCE (CONTINUED)	
Basic static axial load rating (C0a)	1.470 kN
Static tilting moment rating (M0r)	167 kNm
Normal tooth force (Fnom)	33 kN
Maximum tooth force (Fmax)	66 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	1.470 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	167 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	33 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	66 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	28 holes - 28; M16
Inner ring mounting	28 holes - 28; M16
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	77
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-INTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-INTERNAL-GEAR.pdf

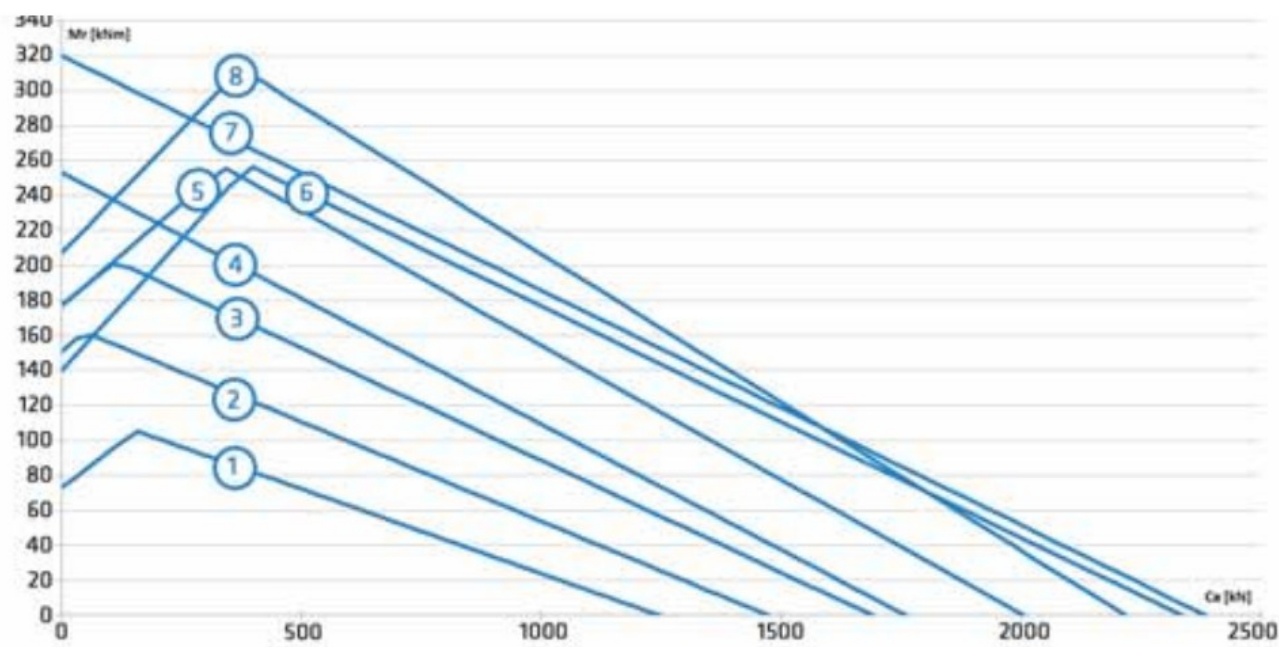
Complete Product Data

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	4
Printed page	4
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	la-leonessa-1ri-static_load_curve.webp SHA-256: 88ec75fa8bed689f66b14f5b91e2b5afb0052df21fcd350ae92760f6f6 77df55
Outline Drawing	la-leonessa-1ri-drawing.webp SHA-256: 3c0269351f1480df2b4130d7fb5c79552a0896a4f557467d7b138da54c 54c490

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

5PHEVKYHRJOXXDFHM3JJIO3AR4

SOURCE FILE

SLEWING-BEARINGS-WITH-INTERNAL-GEAR.
pdf

VERIFICATION

Level 3 - MERYDOM Engineering
Verified

SOURCE DOCUMENT

LA-LEONESSA-INTERNAL-GEAR-CATALOG-20
17

SOURCE LOCATION

PDF page 4 | Printed page 4

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/v18i089/>

Trademark and legal notice: referenced brand and model names are used only for identification and cross-reference. MERYDOM is an independent manufacturer and is not affiliated with or endorsed by the referenced brand unless expressly stated.