

Factory-Verified Replacement

MERYDOM V30E109

Certified for interchange with La Leonessa V30E109. 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

V30E109

SERIES

1RE Series

OVERALL OD

1,289.5 mm

OVERALL HEIGHT

114 mm

REFERENCE

La Leonessa V30E109

STRUCTURE

Sfere a quattro punti di contatto

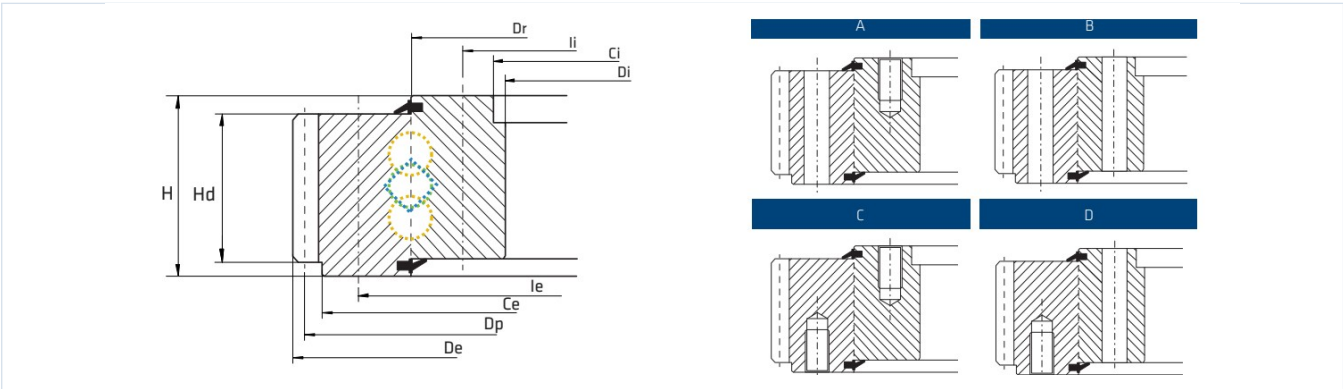
OVERALL ID

984 mm

GEAR

Dentatura esterna

Published Technical Drawing



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	V30E109
Certified interchangeable with	La Leonessa V30E109
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	OD4TDRUZPFQHCDO2HHC73JCSV
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	1RE Series
Reference model	V30E109
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura esterna
DIMENSION	
Mass (P)	310 kg
Overall outside diameter (De)	1.289,5 mm
Overall inside diameter (Di)	984 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)	114 mm
Dim Dr (Dr)	1.116,5 mm
MOUNTING	
Outer ring bolt circle (Ie)	1.198 mm
Outer ring mounting-hole count (ne)	40
Outer ring mounting-hole specification (Me)	M20
Inner ring bolt circle (Ii)	1.035 mm
Inner ring mounting-hole count (ni)	40
Inner ring mounting-hole specification (Mi)	M20
GEAR	
Gear module (m)	10 mm
Gear tooth count (z)	125
Addendum modification product $x \cdot m$ (xm)	10,5 mm
Liebherr catalogue gear dimension $k \cdot m$ (km)	0,75 mm
Gear pitch diameter (Dp)	1.271 mm
Gear Tooth Height (Hd)	75 mm
Gear Hardening Indicator (Temp _{ra})	
PERFORMANCE	
Basic static axial load rating (C0a)	4.770 kN
Static tilting moment rating (M0r)	1.059 kNm

Complete Product Data

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PERFORMANCE (CONTINUED)	
Normal tooth force (F _{nom})	105 kN
Maximum tooth force (F _{max})	210 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	4.770 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	1.059 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	105 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	210 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	40 holes - 40; M20
Inner ring mounting	40 holes - 40; M20
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	125
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf
PDF page	8
Printed page	8

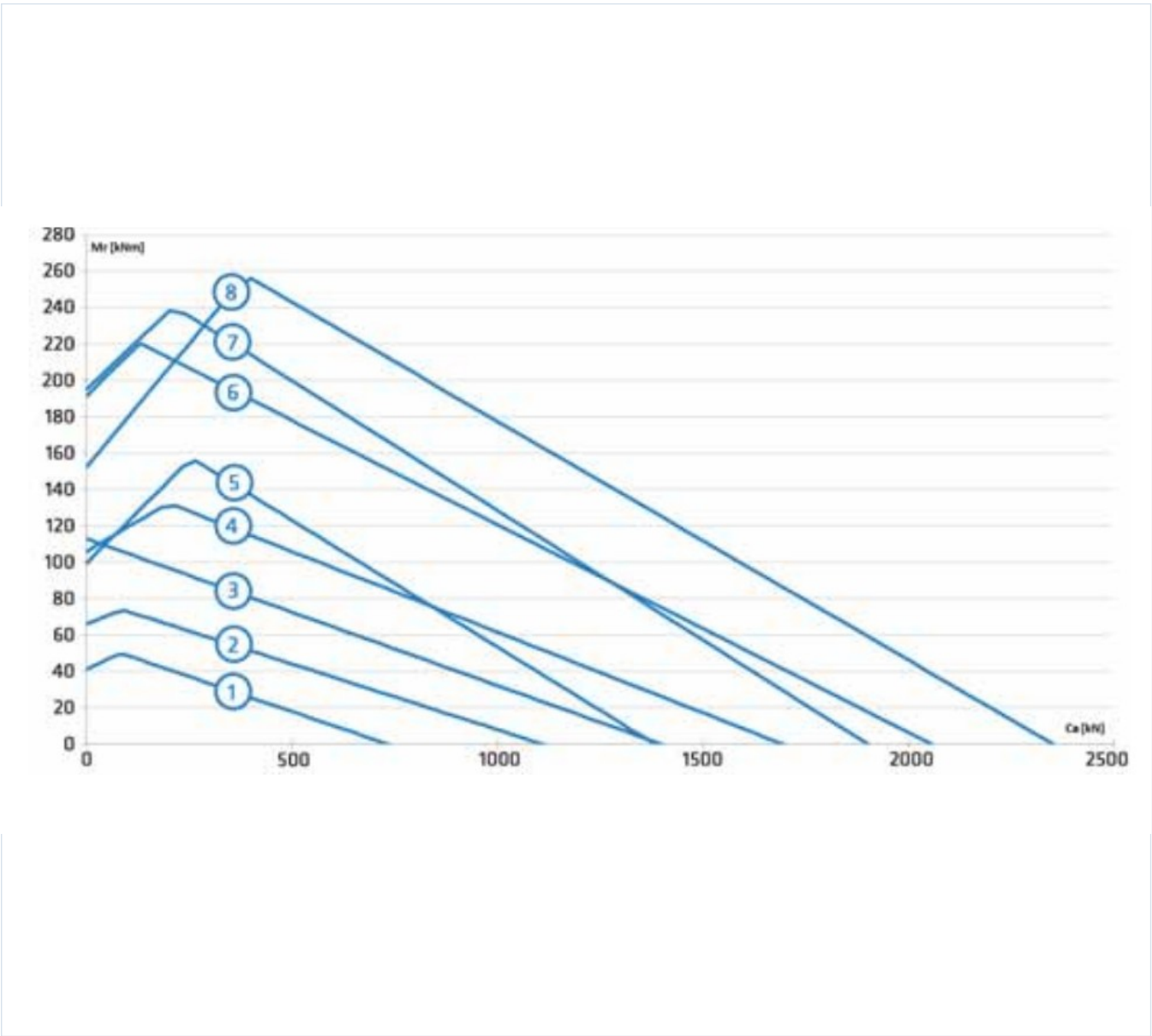
Complete Product Data

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-1re-static_load_curve.webp SHA-256: d7aae043a7185155fb61d59e50819f72c59987082f018cd5cc43cc5387066075
Outline Drawing	la-leonessa-1re-drawing.webp SHA-256: 9def12f376fbd9bc222f66ab0503412bd5a475fdfe624e4dbfe0ca549ea4d61f

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-1re-static_load_curve.webp | SHA-256:
d7aae043a7185155fb61d59e50819f72c59987082f018cd5cc43cc5387066075

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

OD4TDRUZPFQHCDHO2HHC73JCSV

SOURCE FILE

SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.
pdf

VERIFICATION

Level 3 - MERYDOM Engineering
Verified

SOURCE DOCUMENT

LA-LEONESSA-EXTERNAL-GEAR-CATALOG-20
17

SOURCE LOCATION

PDF page 8 | Printed page 8

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/v30e109/>

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