

Factory-Verified Replacement

MERYDOM V40E027

Certified for interchange with La Leonessa V40E027. 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

V40E027

SERIES

1RE Series

OVERALL OD

1,829 mm

OVERALL HEIGHT

145 mm

REFERENCE

La Leonessa V40E027

STRUCTURE

Four-point contact ball

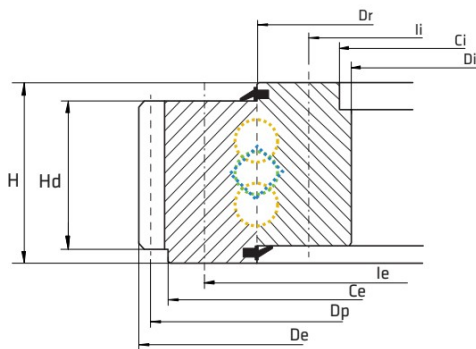
OVERALL ID

1,430 mm

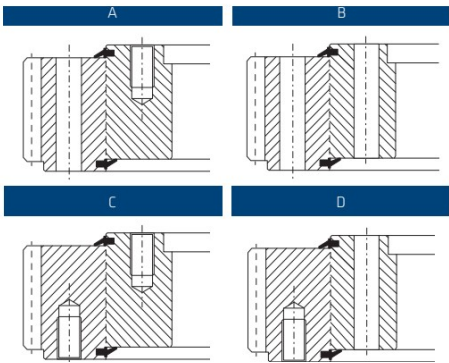
GEAR

External gear

Published Technical Drawing



la-leonessa-1re-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	V40E027
Certified interchangeable with	La Leonessa V40E027
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	UOOUXQSJNPYNWDG56PGIWK5WCZ
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	V40E027
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (P)	861 kg
Overall outside diameter (De)	1,829 mm
Overall inside diameter (Di)	1,430 mm

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DIMENSION (CONTINUED)	
Overall height (H)	145 mm
Dim Dr (Dr)	1,600.5 mm
Dim Centering External (Ce)	1.608 +0,4/0 mm
Dim Centering Internal (Ci)	1.437 +0,4/0 mm
MOUNTING	
Outer ring bolt circle (Ie)	1,715 mm
Outer ring mounting-hole count (ne)	36
Outer ring mounting-hole specification (Me)	M27
Inner ring bolt circle (Ii)	1,485 mm
Inner ring mounting-hole count (ni)	36
Inner ring mounting-hole specification (Mi)	M27
GEAR	
Gear module (m)	12 mm
Gear tooth count (z)	150
Addendum modification product x*m (xm)	3 mm
Liebherr catalogue gear dimension k*m (km)	0.5 mm
Gear pitch diameter (Dp)	1,806 mm
Gear Tooth Height (Hd)	115 mm
PERFORMANCE	
Basic static axial load rating (C0a)	7,250 kN

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PERFORMANCE (CONTINUED)	
Static tilting moment rating (M0r)	2,910 kNm
Normal tooth force (Fnom)	145 kN
Maximum tooth force (Fmax)	290 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	7,250 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	2,910 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	145 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	290 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - 36; M27
Inner ring mounting	36 holes - 36; M27
GEAR INTERFACE	
Pitch system	module
Module reference	12 mm
Number of teeth	150
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf

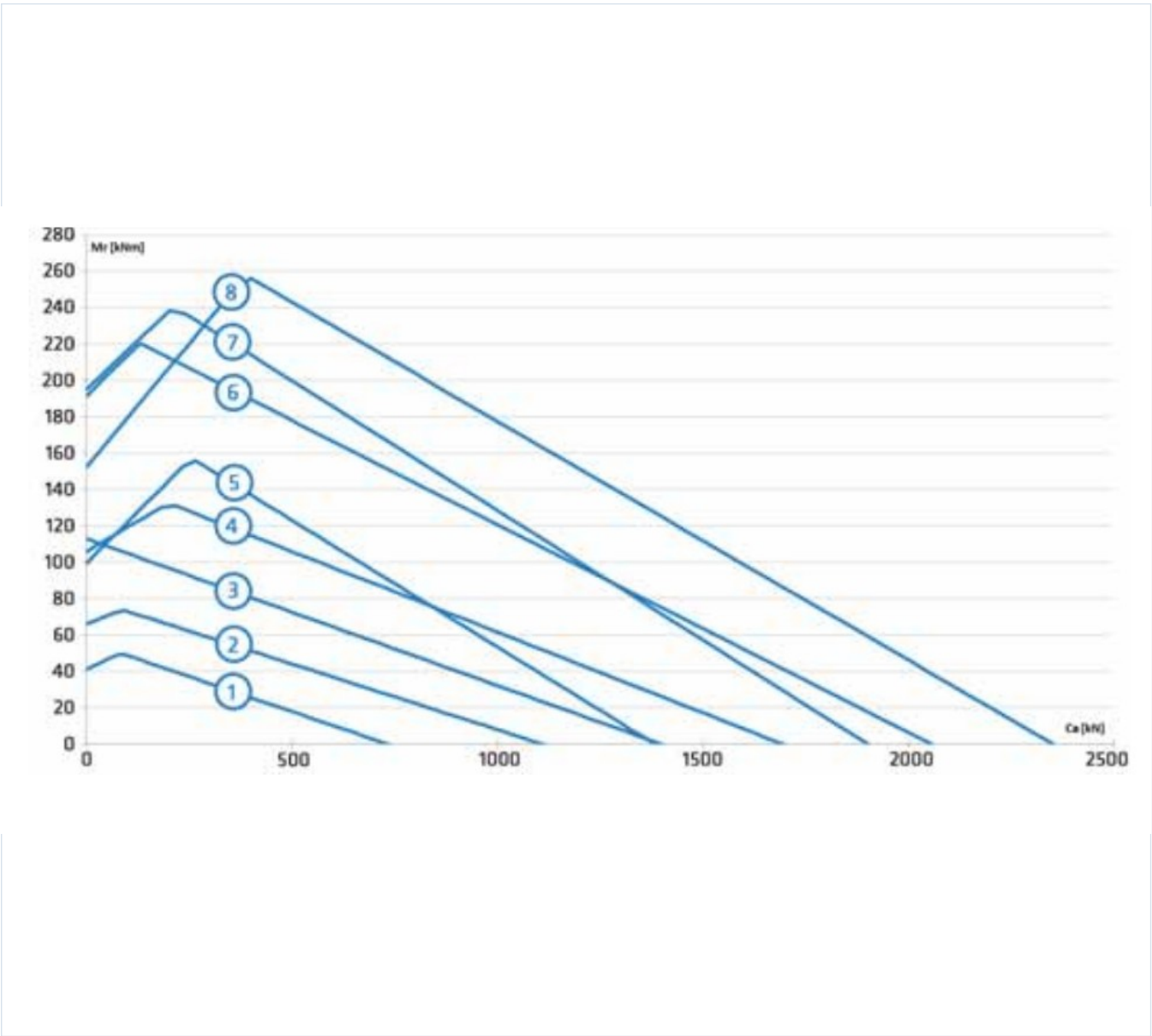
Complete Product Data

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	12
Printed page	12
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 UOOUXQSJNPYNWDG56PGIWK5WCZ	SOURCE DOCUMENT LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
SOURCE FILE SLEWING-BEARINGS-WITH-EXTERNAL-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/v40e027/>

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