

Factory-Verified Replacement

MERYDOM VR146E00

Certified for interchange with La Leonessa VR146E00. 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

VR146E00

REFERENCE

La Leonessa VR146E00

SERIES

VRE-20 Series

STRUCTURE

Rulli a tre file

OVERALL OD

1,461.6 mm

OVERALL ID

1,103 mm

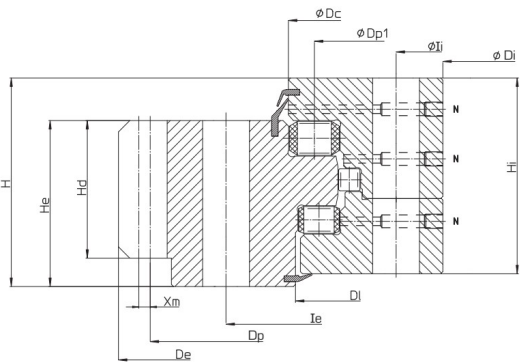
OVERALL HEIGHT

132 mm

GEAR

Dentatura esterna

Published Technical Drawing



la-leonessa-vre-20-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	VR146E00
Certified interchangeable with	La Leonessa VR146E00
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	GXL0MKAO5CXS3E7YIQEXTI4TBR
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	VRE-20 Series
Reference model	VR146E00
Bearing structure	Rulli a tre file
Gear arrangement	Dentatura esterna
DIMENSION	
Mass (P)	542 kg
Overall outside diameter (De)	1.461,6 mm
Overall inside diameter (Di)	1.103 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)	132 mm
Dim Dc (DC)	1.280 mm
Dim DI (DI)	1.282 mm
Dim Hi (Hi)	106 mm
Dim He (He)	123 mm
MOUNTING	
Outer ring bolt circle (Ie)	1.355 mm
Outer ring mounting-hole count (ne)	36
Outer ring mounting-hole specification (Me)	M24
Inner ring bolt circle (Ii)	1.155 mm
Inner ring mounting-hole count (ni)	36
Inner ring mounting-hole specification (Mi)	M24
GEAR	
Gear pitch diameter (Dp)	1.428 mm
Gear module (m)	12 mm
Gear tooth count (Z)	119
Addendum modification product x*m (xm)	6 mm
Liebherr catalogue gear dimension k*m (km)	-1,2 mm
Gear Tooth Height (Hd)	105 mm
PERFORMANCE	

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PERFORMANCE (CONTINUED)	
Normal tooth force (F _{nom})	116 kN
Maximum tooth force (F _{max})	232 kN
MISCELLANEOUS	
Raceway Pitch Diameter (D _{p1})	1.250 mm
Lubrication Zerk Count (N)	3
PERFORMANCE RATINGS	
Rating Tooth Force Normal	116 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	232 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - 36; M24
Inner ring mounting	36 holes - 36; M24
GEAR INTERFACE	
Pitch system	module
Module reference	12 mm
Number of teeth	119
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-THREE-ROW-ROLLER-CATALOG-2019
Source file	broc-3-giri-2019_p12.pdf
PDF page	4
Printed page	4
Source language	EN

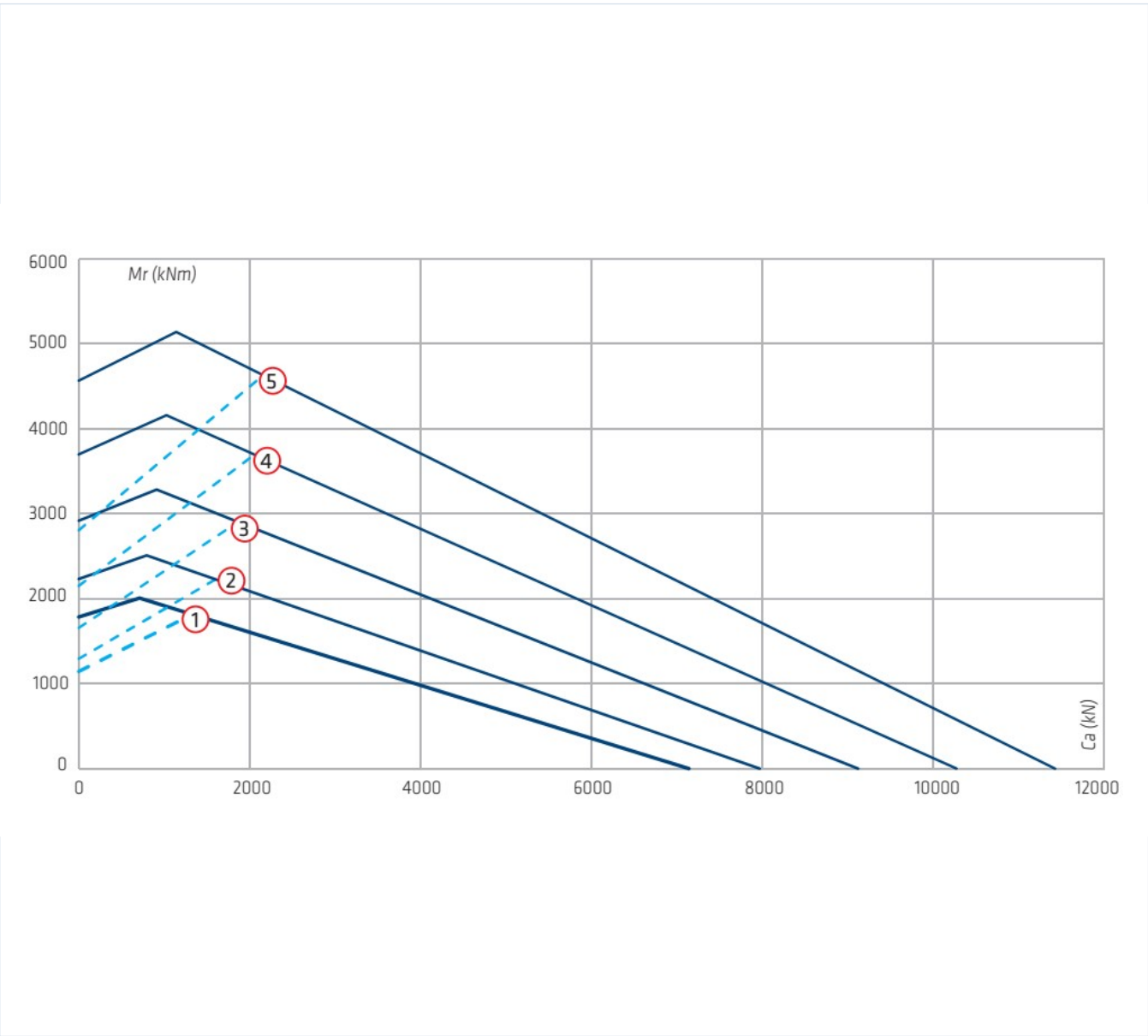
Complete Product Data

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)	
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	la-leonessa-vre-20-static_load_curve.webp SHA-256: 1d893a30a8e02953c9df22564a03bb782e8f613bf540dedd00321290b1c8bdcf
Outline Drawing	la-leonessa-vre-20-drawing.webp SHA-256: f79abcf7f83de539d79294d2f05ff0f8e1ab4b00034349f85860a5b286de1a11

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-vre-20-static_load_curve.webp | SHA-256:
1d893a30a8e02953c9df22564a03bb782e8f613bf540dedd00321290b1c8bdcf

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

GXLOMKA05CXS3E7YIQEXTI4TBR

SOURCE FILE

broc-3-giri-2019_p12.pdf

VERIFICATION

**Level 3 - MERYDOM Engineering
Verified**

SOURCE DOCUMENT

**LA-LEONESSA-THREE-ROW-ROLLER-CATALOG
-2019**

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/vr146e00/>

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