

Factory-Verified Replacement

MERYDOM VR183E00

Certified for interchange with La Leonessa VR183E00. 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

VR183E00

SERIES

VRE-20 Series

OVERALL OD

1,831.2 mm

OVERALL HEIGHT

132 mm

REFERENCE

La Leonessa VR183E00

STRUCTURE

Three-row roller

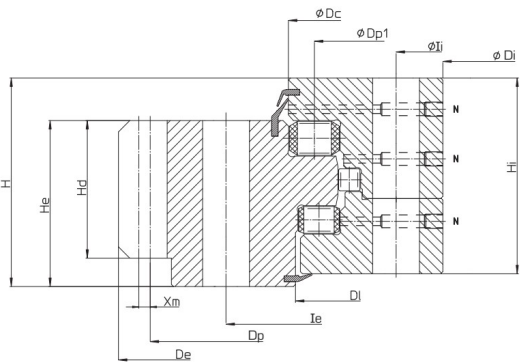
OVERALL ID

1,453 mm

GEAR

External gear

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	VR183E00
Certified interchangeable with	La Leonessa VR183E00
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	US6O4ISIJAQKIRNUZEPM3QU2CG
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	VR183E00
Bearing structure	Three-row roller
Gear arrangement	External gear
DIMENSION	
Mass (P)	731 kg
Overall outside diameter (De)	1,831.2 mm
Overall inside diameter (Di)	1,453 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)	1,630 mm
Dim DI (DI)	1,632 mm
Dim Hi (Hi)	106 mm
Dim He (He)	123 mm
MOUNTING	
Outer ring bolt circle (Ie)	1,705 mm
Outer ring mounting-hole count (ne)	40
Outer ring mounting-hole specification (Me)	M24
Inner ring bolt circle (Ii)	1,505 mm
Inner ring mounting-hole count (ni)	40
Inner ring mounting-hole specification (Mi)	M24
GEAR	
Gear pitch diameter (Dp)	1,792 mm
Gear module (m)	14 mm
Gear tooth count (Z)	128
Addendum modification product x*m (xm)	7 mm
Liebherr catalogue gear dimension k*m (km)	-1.4 mm
Gear Tooth Height (Hd)	105 mm
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)	
Normal tooth force (Fnom)	135 kN
Maximum tooth force (Fmax)	270 kN
MISCELLANEOUS	
Raceway Pitch Diameter (Dp1)	1,600 mm
Lubrication Zerk Count (N)	4
PERFORMANCE RATINGS	
Rating Tooth Force Normal	135 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	270 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	40 holes - 40; M24
Inner ring mounting	40 holes - 40; M24
GEAR INTERFACE	
Pitch system	module
Module reference	14 mm
Number of teeth	128
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

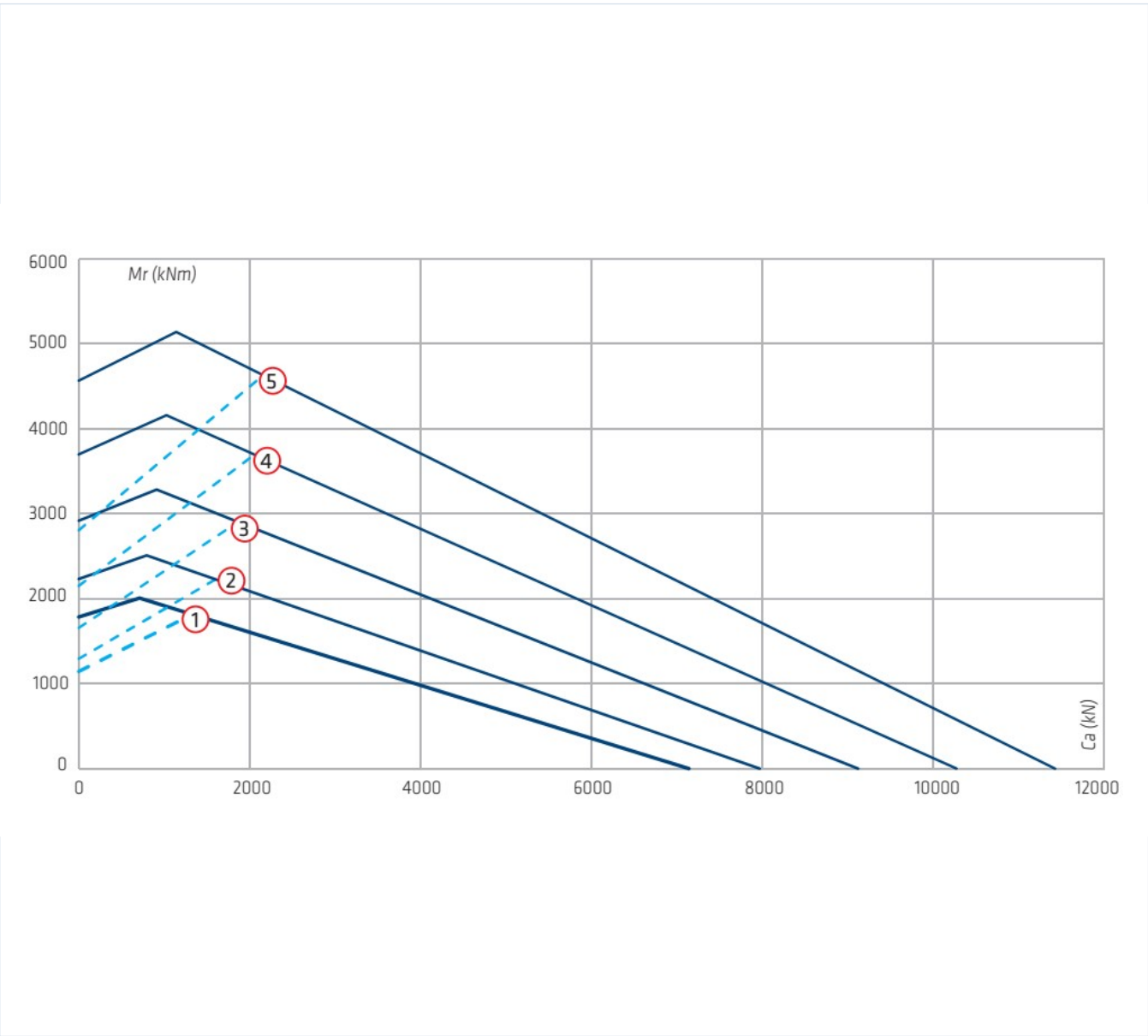
Complete Product Data

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

US6O4ISIJAQKIRNUZEPM3QU2CG

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/products/slewing-bearing-replacements/la-leonessa/vr183e00/>

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