

Factory-Verified Replacement

MERYDOM VR174I00

Certified for interchange with La Leonessa VR174I00. 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

VR174I00

REFERENCE

La Leonessa VR174I00

SERIES

VRI-20 Series

STRUCTURE

Three-row roller

OVERALL OD

1,747 mm

OVERALL ID

1,374.8 mm

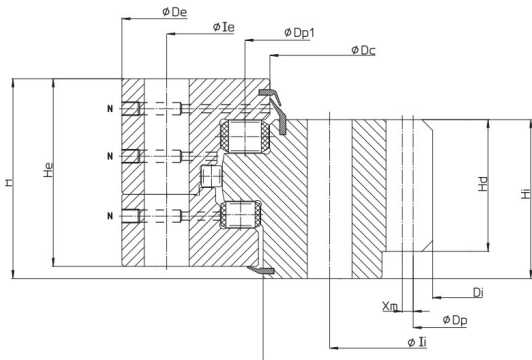
OVERALL HEIGHT

132 mm

GEAR

Internal gear

Published Technical Drawing



la-leonessa-vri-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	VR174I00
Certified interchangeable with	La Leonessa VR174I00
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	GL6X252JNKE6YQQTLBQ36L2UQQ
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	VRI-20 Series
Reference model	VR174I00
Bearing structure	Three-row roller
Gear arrangement	Internal gear
DIMENSION	
Mass (P)	705 kg
Overall outside diameter (De)	1,747 mm
Overall inside diameter (Di)	1,374.8 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)	1,569 mm
Dim DI (DI)	1,568 mm
Dim Hi (Hi)	106 mm
Dim He (He)	123 mm
MOUNTING	
Outer ring bolt circle (Ie)	1,695 mm
Outer ring mounting-hole count (ne)	40
Outer ring mounting-hole specification (Me)	M24
Inner ring bolt circle (Ii)	1,495 mm
Inner ring mounting-hole count (ni)	40
Inner ring mounting-hole specification (Mi)	M24
GEAR	
Gear pitch diameter (Dp)	1,386 mm
Gear module (m)	14 mm
Gear tooth count (Z)	99
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

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PERFORMANCE (CONTINUED)	
Normal tooth force (F _{nom})	135 kN
Maximum tooth force (F _{max})	270 kN
MISCELLANEOUS	
Raceway Pitch Diameter (D _{p1})	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	99
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-THREE-ROW-ROLLER-CATALOG-2019
Source file	broc-3-giri-2019_p12.pdf
PDF page	8
Printed page	8
Source language	EN

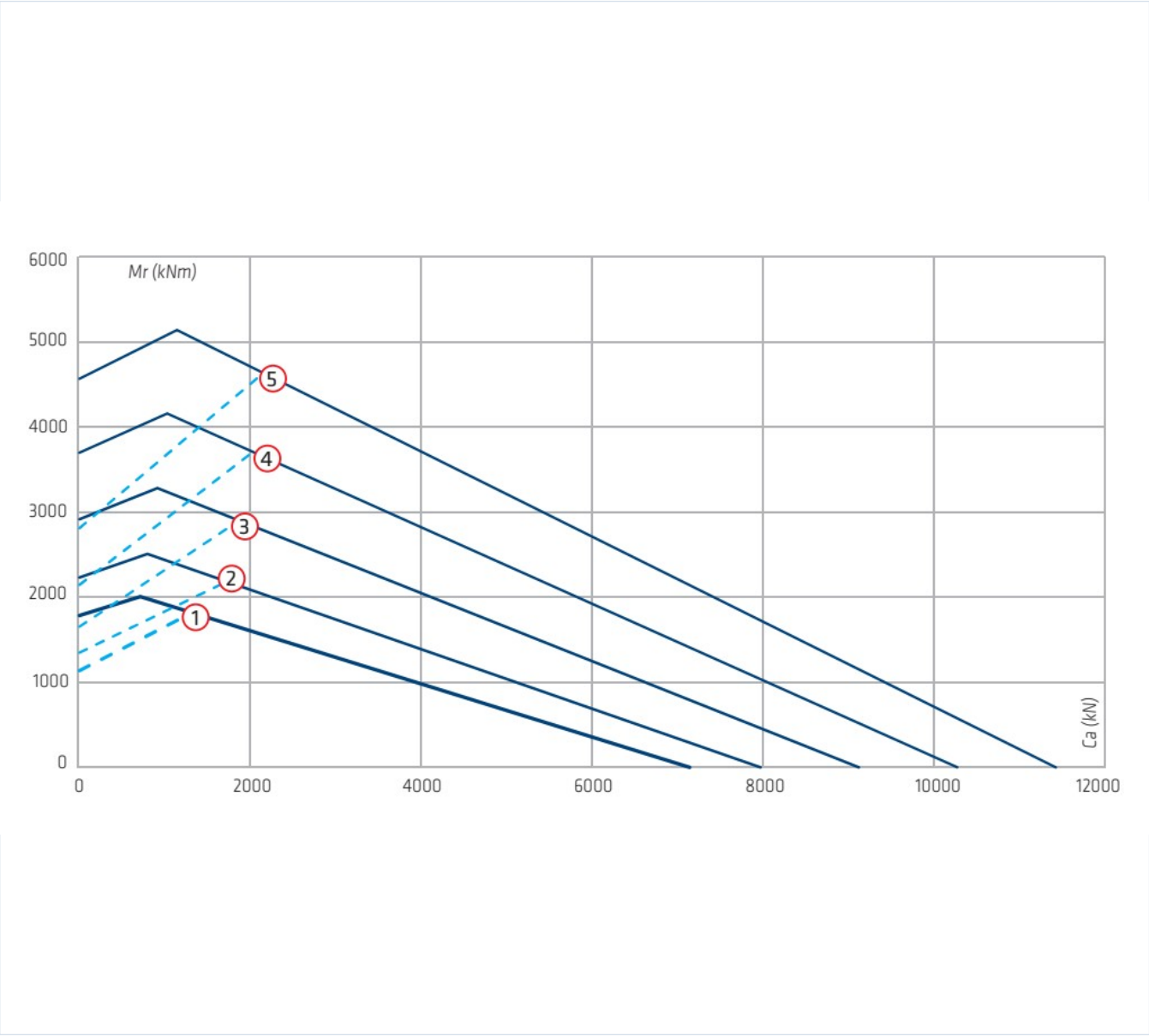
Complete Product Data

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-vri-20-static_load_curve.webp SHA-256: 83563b3be01305eb9b268205b60da74a8903b768580d83ec79ba53fb1d e6d115
Outline Drawing	la-leonessa-vri-20-drawing.webp SHA-256: c2b7eaec3d3c1709d5c5759306aef67b52c27d34601989f60cba8d1551 ff1b92

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-vri-20-static_load_curve.webp | SHA-256:
83563b3be01305eb9b268205b60da74a8903b768580d83ec79ba53fb1de6d115

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

GL6X252JNKE6YQQTLBQ36L2UQQ

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 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/products/slewing-bearing-replacements/la-leonessa/vr174i00/>

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