

Factory-Verified Replacement

MERYDOM VE160A04

Certified for interchange with La Leonessa VE160A04. 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

VE160A04

SERIES

1SE Series

OVERALL OD

1,604 mm

OVERALL HEIGHT

130 mm

REFERENCE

La Leonessa VE160A04

STRUCTURE

Four-point contact ball

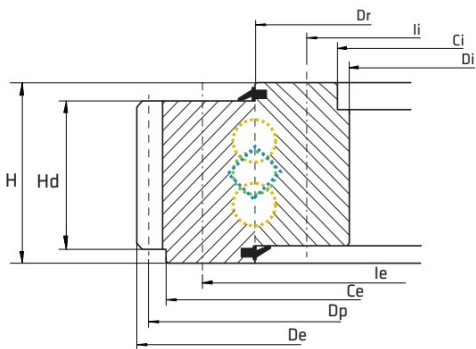
OVERALL ID

1,246 mm

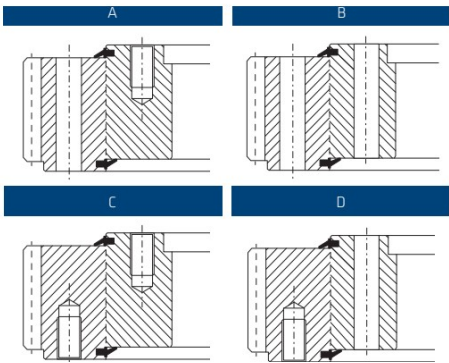
GEAR

External gear

Published Technical Drawing



la-leonessa-1se-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	VE160A04
Certified interchangeable with	La Leonessa VE160A04
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	LQ6BRIUASOKEYCFTLQUSMPXHM5
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	1SE Series
Reference model	VE160A04
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (P)	639 kg
Overall outside diameter (De)	1,604 mm
Overall inside diameter (Di)	1,246 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	130 mm
Dim Dr (Dr)	1,398.5 mm
Dim Centering External (Ce)	1.551 -0,2/-0,4 mm
MOUNTING	
Outer ring bolt circle (Ie)	1,494 mm
Outer ring mounting-hole count (ne)	24
Outer ring mounting-hole specification (Me)	M22
Inner ring bolt circle (Ii)	1,298 mm
Inner ring mounting-hole count (ni)	24
Inner ring mounting-hole specification (Mi)	M22
GEAR	
Gear module (m)	10 mm
Gear tooth count (z)	157
Addendum modification product x*m (xm)	7.5 mm
Liebherr catalogue gear dimension k*m (km)	0.5 mm
Gear pitch diameter (Dp)	1,585 mm
Gear Tooth Height (Hd)	85 mm
PERFORMANCE	
Basic static axial load rating (C0a)	6,810 kN
Static tilting moment rating (M0r)	1,294 kNm

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PERFORMANCE (CONTINUED)	
Normal tooth force (Fnom)	97 kN
Maximum tooth force (Fmax)	194 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	6,810 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	1,294 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	97 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	194 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	24 holes - 24; M22
Inner ring mounting	24 holes - 24; M22
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	157
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf
PDF page	12
Printed page	12

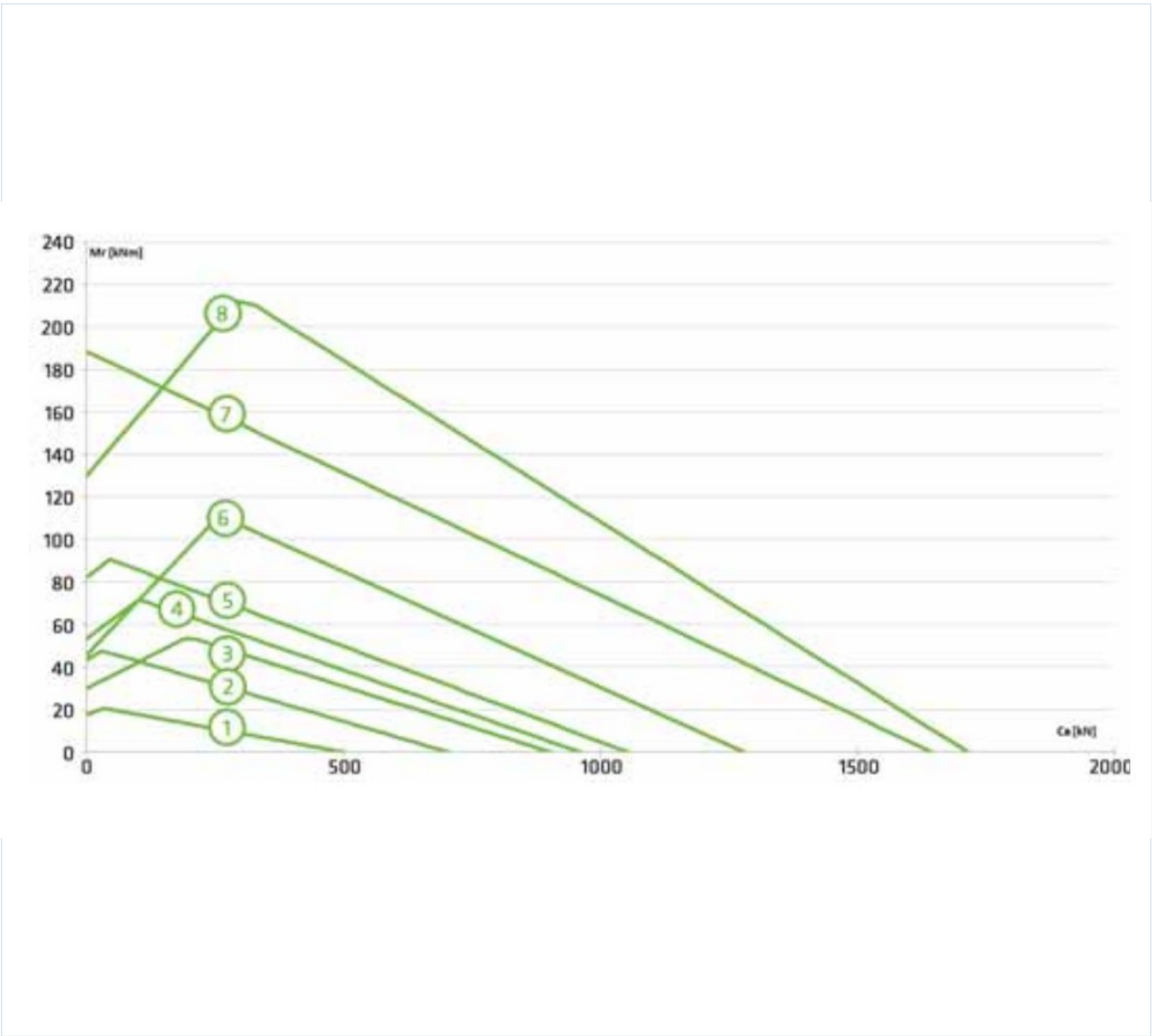
Complete Product Data

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SOURCE TRACEABILITY (CONTINUED)	
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	la-leonessa-1se-static_load_curve.webp SHA-256: 62bcb1797791d738ca65eca2203a02e0957321a0ae736fda2a8e171090a981e9
Outline Drawing	la-leonessa-1se-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-1se-static_load_curve.webp | SHA-256:
62bcb1797791d738ca65eca2203a02e0957321a0ae736fda2a8e171090a981e9

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 LQ6BRIUASOKEYCFTLQUSMPXH5	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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/la-leonessa/ve160a04/>

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