

Factory-Verified Replacement

MERYDOM VE045A00

Certified for interchange with La Leonessa VE045A00. 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

VE045A00

SERIES

1SE Series

OVERALL OD

455.4 mm

OVERALL HEIGHT

55 mm

REFERENCE

La Leonessa VE045A00

STRUCTURE

Sfere a quattro punti di contatto

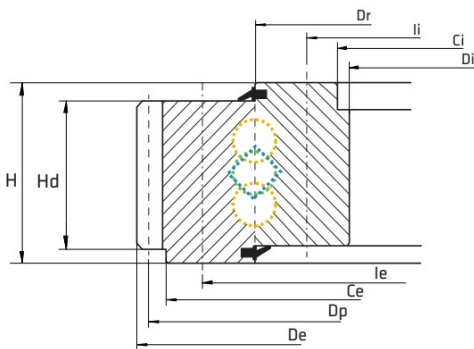
OVERALL ID

285 mm

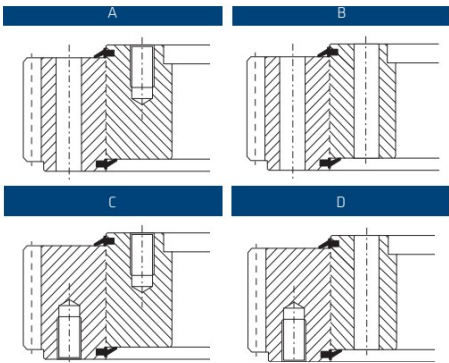
GEAR

Dentatura esterna

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	VE045A00
Certified interchangeable with	La Leonessa VE045A00
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	CVBHNG5WUPLABVQBKD2DWEC3VG
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	VE045A00
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura esterna
DIMENSION	
Mass (P)	30 kg
Overall outside diameter (De)	455,4 mm
Overall inside diameter (Di)	285 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	55 mm
Dim Dr (Dr)	360 mm
MOUNTING	
Outer ring bolt circle (Ie)	410 mm
Outer ring mounting-hole count (ne)	12
Outer ring mounting-hole specification (Me)	M14
Inner ring bolt circle (Ii)	310 mm
Inner ring mounting-hole count (ni)	12
Inner ring mounting-hole specification (Mi)	M14
GEAR	
Gear module (m)	4,5 mm
Gear tooth count (z)	98
Addendum modification product x^*m (xm)	3,15 mm
Liebherr catalogue gear dimension k^*m (km)	0,45 mm
Gear pitch diameter (Dp)	447,3 mm
Gear Tooth Height (Hd)	45 mm
PERFORMANCE	
Basic static axial load rating (C0a)	900 kN
Static tilting moment rating (M0r)	69 kNm
Normal tooth force (Fnom)	10 kN

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PERFORMANCE (CONTINUED)	
Maximum tooth force (Fmax)	20 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	900 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	69 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	10 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	20 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	12 holes - 12; M14
Inner ring mounting	12 holes - 12; M14
GEAR INTERFACE	
Pitch system	module
Module reference	4.5 mm
Number of teeth	98
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf
PDF page	4
Printed page	4
Source language	EN

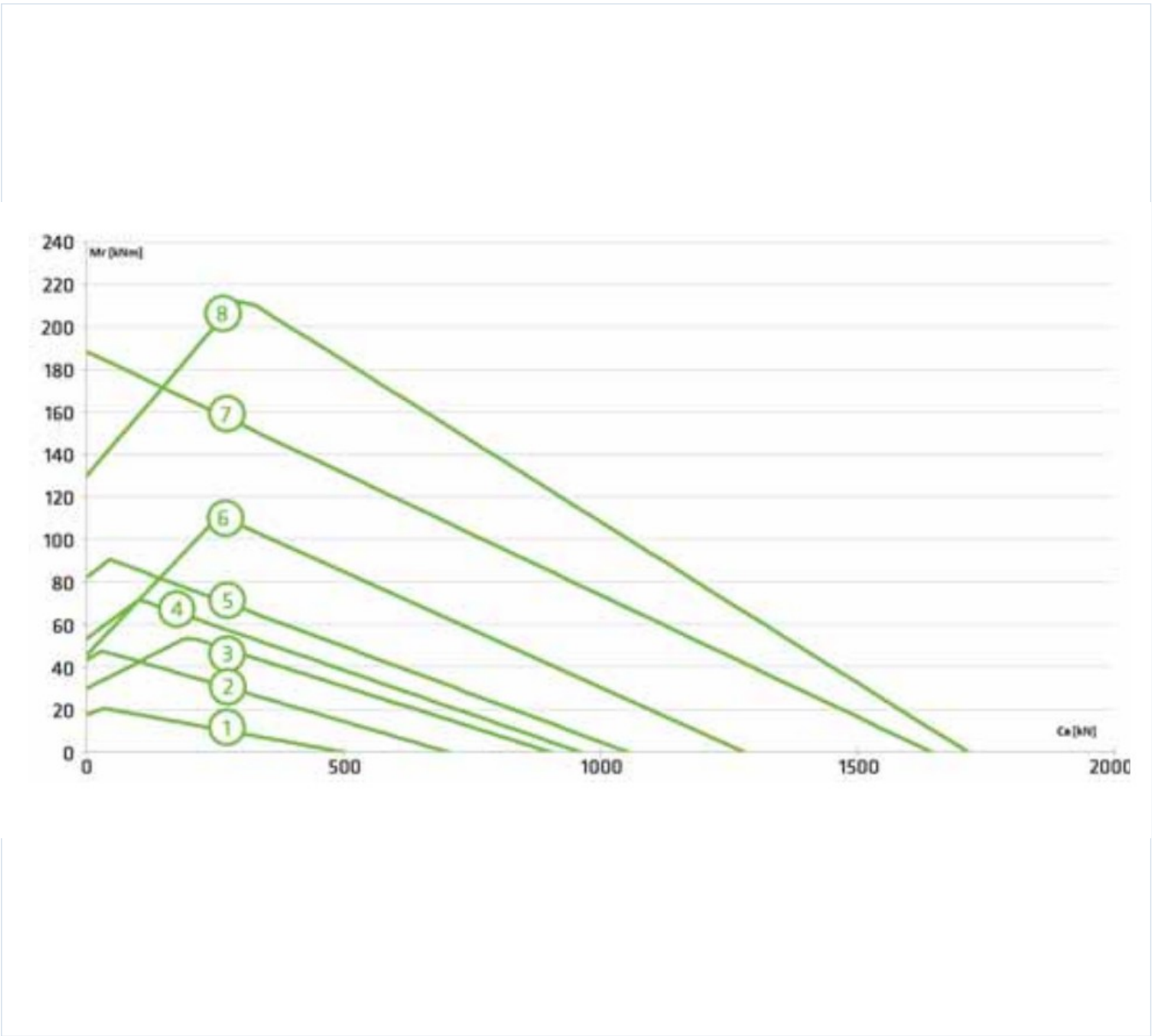
Complete Product Data

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-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 CVBHNG5WUPLABVQBKD2DWEC3VG	SOURCE DOCUMENT LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
SOURCE FILE SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf	SOURCE LOCATION PDF page 4 Printed page 4
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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/la-leonessa/ve045a00/>

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