

Factory-Verified Replacement

MERYDOM VE185A00

Certified for interchange with La Leonessa VE185A00. 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

VE185A00

SERIES

1SE Series

OVERALL OD

1,858 mm

OVERALL HEIGHT

68 mm

REFERENCE

La Leonessa VE185A00

STRUCTURE

Esferas de contato de quatro pontos

OVERALL ID

1,620 mm

GEAR

Engrenagem externa

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	VE185A00
Certified interchangeable with	La Leonessa VE185A00
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	SHOFD5EIQV3WJQ2YIHOVVEYMD5
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	VE185A00
Bearing structure	Esferas de contato de quatro pontos
Gear arrangement	Engrenagem externa
DIMENSION	
Mass (P)	270 kg
Overall outside diameter (De)	1.858 mm
Overall inside diameter (Di)	1.620 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	68 mm
Dim Dr (Dr)	1.715 mm
MOUNTING	
Outer ring bolt circle (Ie)	1.775 mm
Outer ring mounting-hole count (ne)	24
Outer ring mounting-hole specification (Me)	M16
Inner ring bolt circle (Ii)	1.660 mm
Inner ring mounting-hole count (ni)	24
Inner ring mounting-hole specification (Mi)	M16
GEAR	
Gear module (m)	10 mm
Gear tooth count (z)	183
Addendum modification product x^*m (xm)	5 mm
Liebherr catalogue gear dimension k^*m (km)	1 mm
Gear pitch diameter (Dp)	1.840 mm
Gear Tooth Height (Hd)	59 mm
PERFORMANCE	
Basic static axial load rating (C0a)	5.400 kN
Static tilting moment rating (M0r)	2.139 kNm
Normal tooth force (Fnom)	67 kN

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PERFORMANCE (CONTINUED)	
Maximum tooth force (Fmax)	134 kN
MISCELLANEOUS	
Pattern (Schema)	D
PERFORMANCE RATINGS	
Rating Axial Static	5.400 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	2.139 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	67 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	134 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	24 holes - 24; M16
Inner ring mounting	24 holes - 24; M16
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	183
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
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

SHOFD5EIQV3WJQ2YIH0VVEYMD5

SOURCE FILE

SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.
pdf

VERIFICATION

Level 3 - MERYDOM Engineering
Verified

SOURCE DOCUMENT

LA-LEONESSA-EXTERNAL-GEAR-CATALOG-20
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SOURCE LOCATION

PDF page 12 | Printed page 12

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

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Product page: <https://rotnex.com/pt/produtos/rolamentos-de-giro-de-substituicao/la-leonessa/ve185a00/>

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