

Factory-Verified Replacement

MERYDOM VE147B03

Certified for interchange with La Leonessa VE147B03. 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

VE147B03

SERIES

2SE Series

OVERALL OD

1,476 mm

OVERALL HEIGHT

110 mm

REFERENCE

La Leonessa VE147B03

STRUCTURE

Rolamento de esferas de duas
carreiras

OVERALL ID

1,085 mm

GEAR

Engrenagem externa

Published Technical Drawing



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	VE147B03
Certified interchangeable with	La Leonessa VE147B03
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	FQXUSFEPPPLIY6A2XYEV2GON34
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	2SE Series
Reference model	VE147B03
Bearing structure	Rolamento de esferas de duas carreiras
Gear arrangement	Engrenagem externa
DIMENSION	
Mass (P)	503 kg
Overall outside diameter (De)	1.476 mm
Overall inside diameter (Di)	1.085 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	110 mm
Dim Dr (Dr)	1.247,5 mm
Dim Centering External (Ce)	1.415 0/-0,8 mm
Dim Centering Internal (Ci)	1.085 +0,5/0 mm
MOUNTING	
Outer ring bolt circle (Ie)	1.350 mm
Outer ring mounting-hole count (ne)	48
Outer ring mounting-hole specification (Me)	M24
Inner ring bolt circle (Ii)	1.150 mm
Inner ring mounting-hole count (ni)	48
Inner ring mounting-hole specification (Mi)	M24
GEAR	
Gear module (m)	10 mm
Gear tooth count (z)	144
Addendum modification product x*m (xm)	8,6 mm
Liebherr catalogue gear dimension k*m (km)	0,6 mm
Gear pitch diameter (Dp)	1.457,2 mm
Gear Tooth Height (Hd)	89 mm
PERFORMANCE	
Basic static axial load rating (C0a)	6.100 kN

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PERFORMANCE (CONTINUED)	
Static tilting moment rating (M _{0r})	1.928 kNm
Normal tooth force (F _{nom})	77 kN
Maximum tooth force (F _{max})	155 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	6.100 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	1.928 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	77 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	155 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	48 holes - 48; M24
Inner ring mounting	48 holes - 48; M24
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	144
SOURCE TRACEABILITY	
Source document code	LA-LEONESSA-EXTERNAL-GEAR-CATALOG-2017
Source file	SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.pdf
PDF page	8

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)	
Printed page	8
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	la-leonessa-2se-static_load_curve.webp SHA-256: 0056d7fd4ded2922ffa0000f4b2784841e0dbba7de039b531b9334852625cba1
Outline Drawing	la-leonessa-2se-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-2se-static_load_curve.webp | SHA-256:
0056d7fd4ded2922ffa0000f4b2784841e0dbba7de039b531b9334852625cba1

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

FQXUSFEPPLIY6A2XYEV2GON34

SOURCE FILE

**SLEWING-BEARINGS-WITH-EXTERNAL-GEAR.
pdf**

VERIFICATION

**Level 3 - MERYDOM Engineering
Verified**

SOURCE DOCUMENT

**LA-LEONESSA-EXTERNAL-GEAR-CATALOG-20
17**

SOURCE LOCATION

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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/pt/produtos/rolamentos-de-giro-de-substituicao/la-leonessa/ve147b03/>

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