

Factory-Verified Replacement

MERYDOM VE180A05

Certified for interchange with La Leonessa VE180A05. 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

VE180A05

SERIES

1SE Series

OVERALL OD

1,803.2 mm

OVERALL HEIGHT

94 mm

REFERENCE

La Leonessa VE180A05

STRUCTURE

Four-point contact ball

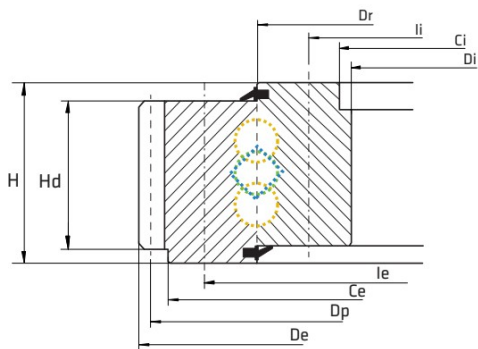
OVERALL ID

1,465 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	VE180A05
Certified interchangeable with	La Leonessa VE180A05
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ZRWU45ONLK2CKF25FIO27I7D5Z
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	VE180A05
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (P)	480 kg
Overall outside diameter (De)	1,803.2 mm
Overall inside diameter (Di)	1,465 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	94 mm
Dim Dr (Dr)	1,600.5 mm
Dim Centering Internal (Ci)	1.466 +0,3/0 mm
MOUNTING	
Outer ring bolt circle (Ie)	1,682 mm
Outer ring mounting-hole count (ne)	40
Outer ring mounting-hole specification (Me)	M24
Inner ring bolt circle (Ii)	1,518 mm
Inner ring mounting-hole count (ni)	40
Inner ring mounting-hole specification (Mi)	M24
GEAR	
Gear module (m)	14 mm
Gear tooth count (z)	126
Addendum modification product x*m (xm)	7 mm
Liebherr catalogue gear dimension k*m (km)	1.4 mm
Gear pitch diameter (Dp)	1,778 mm
Gear Tooth Height (Hd)	85 mm
PERFORMANCE	
Basic static axial load rating (C0a)	7,840 kN
Static tilting moment rating (M0r)	3,289 kNm

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PERFORMANCE (CONTINUED)	
Normal tooth force (F _{nom})	138 kN
Maximum tooth force (F _{max})	276 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	7,840 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	3,289 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	138 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	276 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	126
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

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)	
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 ZRWU45ONLK2CKF25FIO27I7D5Z	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

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/la-leonessa/ve180a05/>

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