

Factory-Verified Replacement

MERYDOM V18E097

Certified for interchange with La Leonessa V18E097. 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

V18E097

SERIES

1RE Series

OVERALL OD

710.4 mm

OVERALL HEIGHT

77 mm

REFERENCE

La Leonessa V18E097

STRUCTURE

Sfere a quattro punti di contatto

OVERALL ID

477 mm

GEAR

Dentatura esterna

Published Technical Drawing



la-leonessa-1re-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	V18E097
Certified interchangeable with	La Leonessa V18E097
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	JKZGHGEUZAYZYV3AQTDYFQECXC
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	1RE Series
Reference model	V18E097
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura esterna
DIMENSION	
Mass (P)	90 kg
Overall outside diameter (De)	710,4 mm
Overall inside diameter (Di)	477 mm

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DIMENSION (CONTINUED)	
Overall height (H)	77 mm
Dim Dr (Dr)	576 mm
Dim Centering Internal (Ci)	480 +0,3/0 mm
MOUNTING	
Outer ring bolt circle (Ie)	640 mm
Outer ring mounting-hole count (ne)	18
Outer ring mounting-hole specification (Me)	M16
Inner ring bolt circle (Ii)	508 mm
Inner ring mounting-hole count (ni)	18
Inner ring mounting-hole specification (Mi)	M16
GEAR	
Gear module (m)	8 mm
Gear tooth count (z)	86
Addendum modification product x*m (xm)	4 mm
Liebherr catalogue gear dimension k*m (km)	0,8 mm
Gear pitch diameter (Dp)	696 mm
Gear Tooth Height (Hd)	64 mm
PERFORMANCE	
Basic static axial load rating (C0a)	1.380 kN
Static tilting moment rating (M0r)	193 kNm

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PERFORMANCE (CONTINUED)	
Normal tooth force (F _{nom})	50 kN
Maximum tooth force (F _{max})	100 kN
MISCELLANEOUS	
Pattern (Schema)	B
PERFORMANCE RATINGS	
Rating Axial Static	1.380 kN Not simultaneous with other listed dynamic ratings
Rating Tilting Moment Static	193 kNm Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	50 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	100 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	18 holes - 18; M16
Inner ring mounting	18 holes - 18; M16
GEAR INTERFACE	
Pitch system	module
Module reference	8 mm
Number of teeth	86
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

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-1re-static_load_curve.webp SHA-256: d7aae043a7185155fb61d59e50819f72c59987082f018cd5cc43cc5387066075
Outline Drawing	la-leonessa-1re-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-1re-static_load_curve.webp | SHA-256:
d7aae043a7185155fb61d59e50819f72c59987082f018cd5cc43cc5387066075

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 JKZGHGEUZAYZYV3AQTDYFQECXC	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

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Product page: <https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/la-leonessa/v18e097/>

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