

Factory-Verified Replacement

MERYDOM ROD04500-040DJ15-900-000

Certified for interchange with Liebherr ROD04500-040DJ15-900-000. 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

ROD04500-040DJ15-900-000

REFERENCE

Liebherr ROD04500-040DJ15-900-000

SERIES

ROD_40_DJ Series

STRUCTURE

Three-row roller

OVERALL OD

4,738 mm

OVERALL ID

4,128 mm

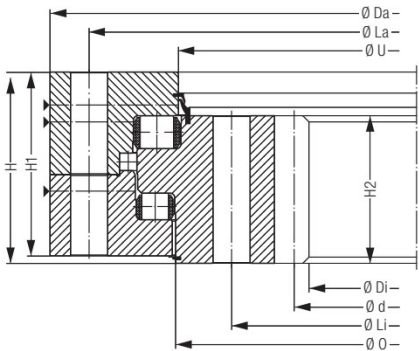
OVERALL HEIGHT

220 mm

GEAR

Internal gear

Published Technical Drawing



liebherr-page-144-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	ROD04500-040DJ15-900-000
Certified interchangeable with	Liebherr ROD04500-040DJ15-900-000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	2VOTRXGZ6VROZFWHH3RTX5G3G5
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	Liebherr
Reference series	ROD_40_DJ Series
Reference model	ROD04500-040DJ15-900-000
Bearing structure	Three-row roller
Gear arrangement	Internal gear
DIMENSION	
Mass (Weight)	5,367 kg
Overall outside diameter (Da)	4,738 mm
Overall inside diameter (Di)	4,128 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	220 mm
Liebherr catalogue dimension O (O)	4,463 mm
Liebherr catalogue dimension U (U)	4,450 mm
Liebherr catalogue dimension H1 (H1)	210 mm
Liebherr catalogue dimension H2 (H2)	170 mm
MOUNTING	
Outer ring bolt circle (La)	4,660 mm
Inner ring bolt circle (Li)	4,335 mm
La/Li mounting-hole count (n)	84
Mounting fastener specification (M)	36
Liebherr catalogue count n1 (n1)	14
GEAR	
Gear pitch diameter (d)	4,152 mm
Gear module (m)	24 mm
Gear tooth count (z)	173
Addendum modification product x*m (x*m)	-12 mm
Gear face width (b)	170 mm
PERFORMANCE	
Standard tooth force (Fz standard)	354.8 kN
Maximum tooth force (Fz maximum)	709.6 kN

Complete Product Data

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PERFORMANCE (CONTINUED)	
Static load rating (Cstat)	66,450 kN
Dynamic load rating (Cdyn)	5,884 kN
PERFORMANCE RATINGS	
Rating Dynamic	5,884 kN Not simultaneous with other listed dynamic ratings
Rating Static	66,450 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	709.6 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Standard	354.8 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	84 holes - 36
Inner ring mounting	84 holes - 36
GEAR INTERFACE	
Pitch system	module
Module reference	24 mm
Number of teeth	173
SOURCE TRACEABILITY	
Source document code	LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
Source file	liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf
PDF page	144
Printed page	144
Source language	EN

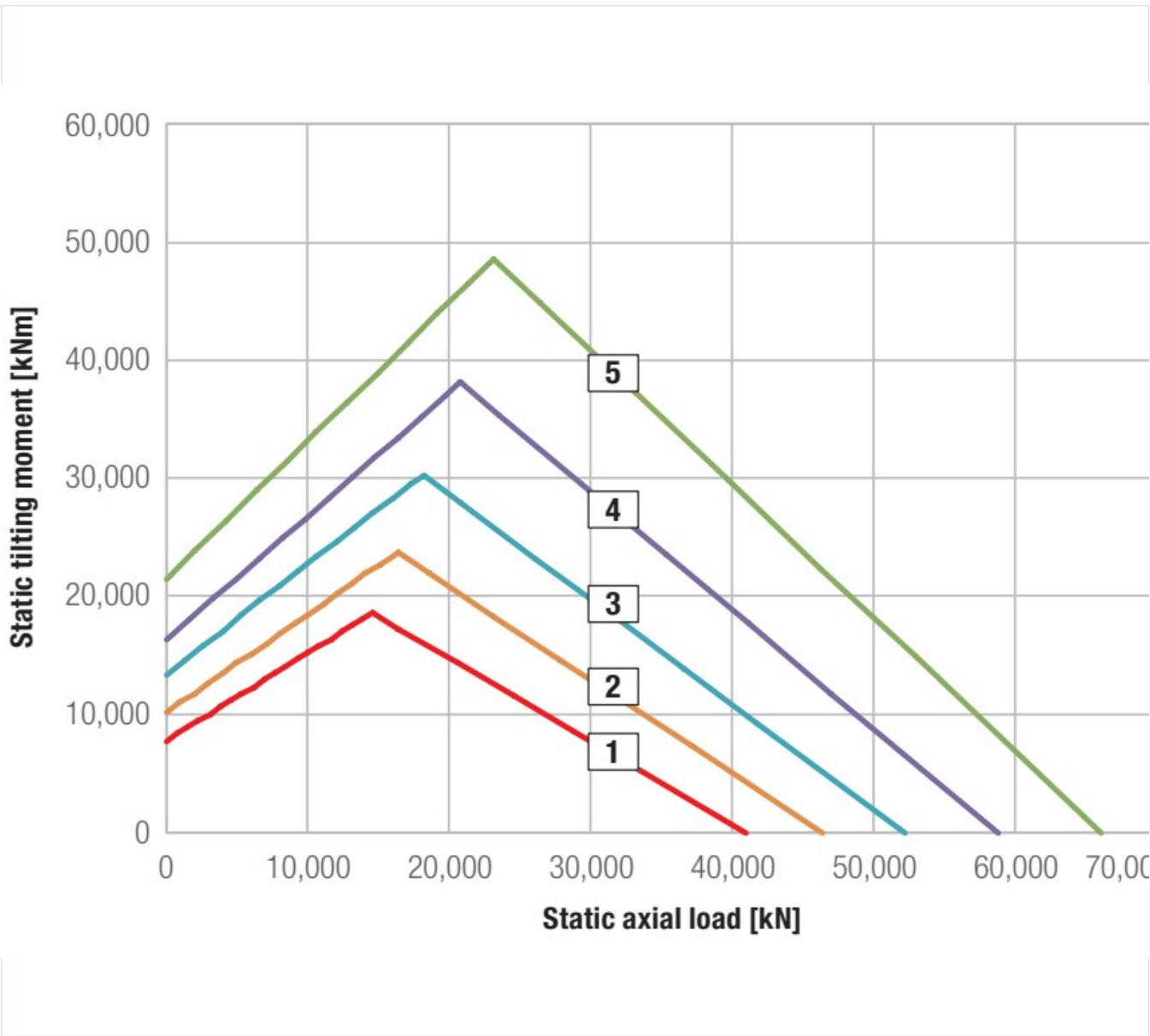
Complete Product Data

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	Mixed_metric_dp_threads
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	liebherr-page-144-curve.webp SHA-256: 1c24affabb85ec73f0605e65bbcc91f8015342de124e0d7c9ab4fd2c3c9a7ce7
Outline Drawing	liebherr-page-144-drawing.webp SHA-256: 70d5d68211bbdfc3719632a3229c1ed45a9e8eac88243e8571d27e8c1739bcce

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.



liebherr-page-144-curve.webp | SHA-256: 1c24affabb85ec73f0605e65bbcc91f8015342de124e0d7c9ab4fd2c3c9a7ce7

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 2VOTRXGZ6VROZFWHH3RTX5G3G5	SOURCE DOCUMENT LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
SOURCE FILE liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf	SOURCE LOCATION PDF page 144 Printed page 144
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/liebherr/rod04500-040dj15-900-000/>

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