

Factory-Verified Replacement

MERYDOM ROD04500-050DJ15-900-000

Certified for interchange with Liebherr ROD04500-050DJ15-900-000. 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

ROD04500-050DJ15-900-000

REFERENCE

Liebherr ROD04500-050DJ15-900-000

SERIES

ROD_50_DJ Series

STRUCTURE

Rolos de tr s carreiras

OVERALL OD

4,765 mm

OVERALL ID

4,080 mm

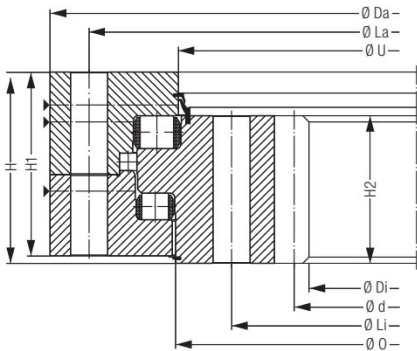
OVERALL HEIGHT

268 mm

GEAR

Engrenagem interna

Published Technical Drawing



liebherr-page-145-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	ROD04500-050DJ15-900-000
Certified interchangeable with	Liebherr ROD04500-050DJ15-900-000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	R3G4DIQV4EIWE4OC2UKJ7YBG5G
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_50_DJ Series
Reference model	ROD04500-050DJ15-900-000
Bearing structure	Rolos de tr s carreiras
Gear arrangement	Engrenagem interna
DIMENSION	
Mass (Weight)	7.427 kg
Overall outside diameter (Da)	4.765 mm
Overall inside diameter (Di)	4.080 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	268 mm
Liebherr catalogue dimension O (O)	4.454 mm
Liebherr catalogue dimension U (U)	4.440 mm
Liebherr catalogue dimension H1 (H1)	258 mm
Liebherr catalogue dimension H2 (H2)	203 mm
MOUNTING	
Outer ring bolt circle (La)	4.675 mm
Inner ring bolt circle (Li)	4.300 mm
La/Li mounting-hole count (n)	68
Mounting fastener specification (M)	42
Liebherr catalogue count n1 (n1)	11
GEAR	
Gear pitch diameter (d)	4.104 mm
Gear module (m)	24 mm
Gear tooth count (z)	171
Addendum modification product x^*m (x^*m)	-12 mm
Gear face width (b)	203 mm
PERFORMANCE	
Standard tooth force (Fz standard)	423,6 kN
Maximum tooth force (Fz maximum)	847,2 kN

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PERFORMANCE (CONTINUED)	
Static load rating (Cstat)	83.142 kN
Dynamic load rating (Cdyn)	7.912 kN
PERFORMANCE RATINGS	
Rating Dynamic	7.912 kN Not simultaneous with other listed dynamic ratings
Rating Static	83.142 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	847,2 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Standard	423,6 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	68 holes - 42
Inner ring mounting	68 holes - 42
GEAR INTERFACE	
Pitch system	module
Module reference	24 mm
Number of teeth	171
SOURCE TRACEABILITY	
Source document code	LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
Source file	liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf
PDF page	145
Printed page	145
Source language	EN

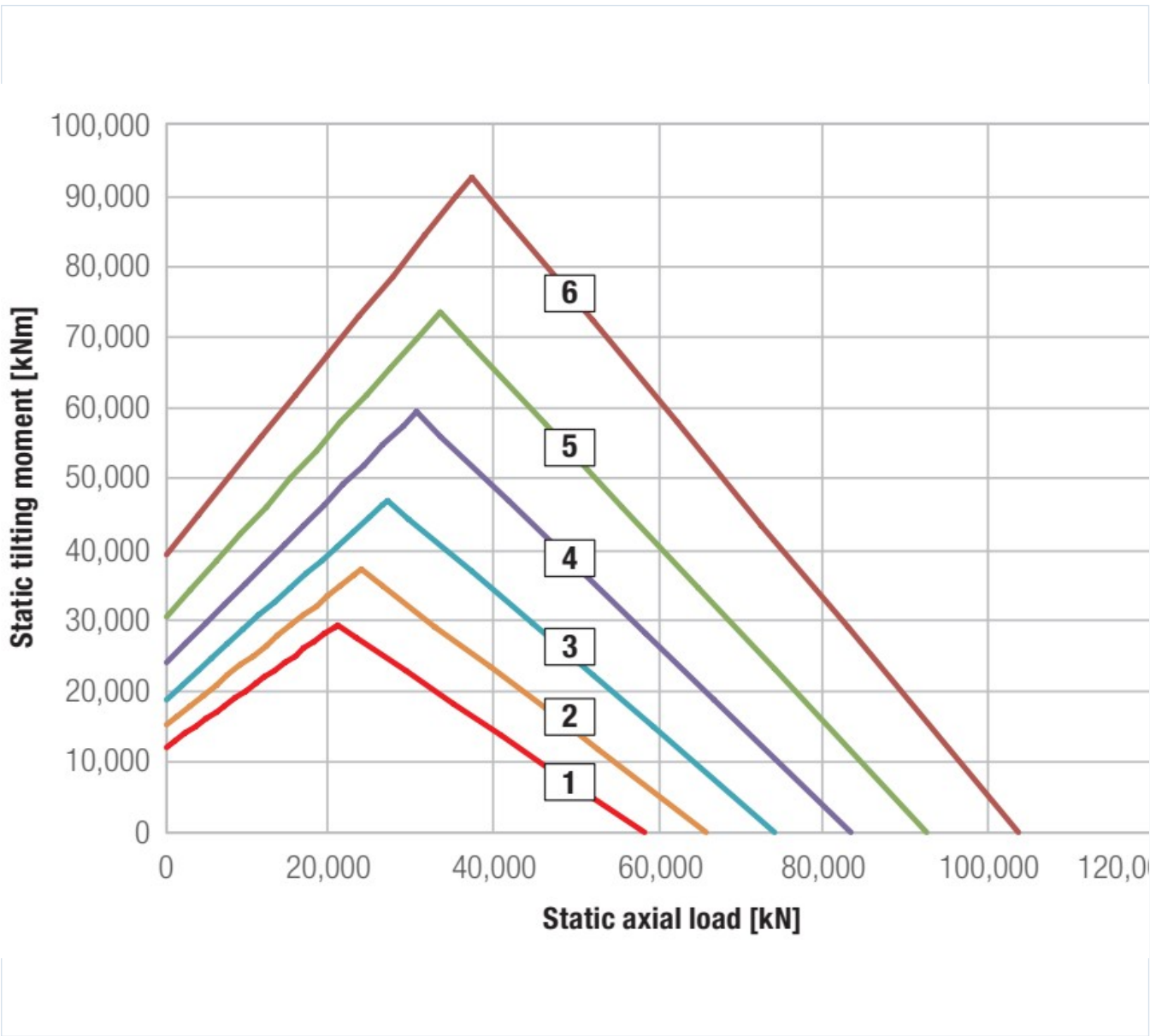
Complete Product Data

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SOURCE TRACEABILITY (CONTINUED)	
Original unit system	Mixed_metric_dp_threads
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	liebherr-page-145-curve.webp SHA-256: 2e37d5f9ba28691f0d2f0531acd5a49376605c163f5e0c84ceb3cabbf155ddb6
Outline Drawing	liebherr-page-145-drawing.webp SHA-256: a5ff11e86281ccb88e96d0dfa40395f490159575f31c681342942e040de5408b

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-145-curve.webp | SHA-256: 2e37d5f9ba28691f0d2f0531acd5a49376605c163f5e0c84ceb3cabbf155ddb6

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 R3G4DIQV4EIWE4OC2UKJ7YBG5G	SOURCE DOCUMENT LIEBHERR-SLEWING-BEARINGS-PRODUCT-CA TALOGUE-2018
SOURCE FILE liebherr-slewing-bearings-product-ca talogue-pt-metric-web.pdf	SOURCE LOCATION PDF page 145 Printed page 145
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/pt/produtos/rolamentos-de-giro-de-substituicao/liebherr/rod04500-050dj15-900-000/>

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