

Factory-Verified Replacement

MERYDOM ROD03550-050DJ15-900-000

Certified for interchange with Liebherr ROD03550-050DJ15-900-000. 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

ROD03550-050DJ15-900-000

REFERENCE

Liebherr ROD03550-050DJ15-900-000

SERIES

ROD_50_DJ Series

STRUCTURE

Rulli a tre file

OVERALL OD

3,815 mm

OVERALL ID

3,120 mm

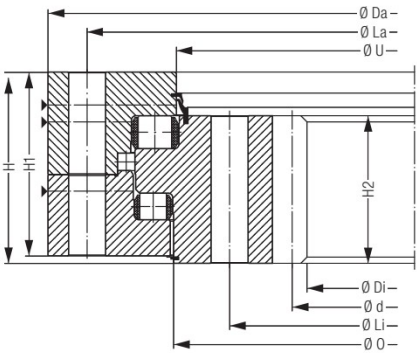
OVERALL HEIGHT

268 mm

GEAR

Dentatura 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	ROD03550-050DJ15-900-000
Certified interchangeable with	Liebherr ROD03550-050DJ15-900-000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	YSMVFQ4KML6F2PHFA56BKCBRS
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	ROD03550-050DJ15-900-000
Bearing structure	Rulli a tre file
Gear arrangement	Dentatura interna
DIMENSION	
Mass (Weight)	5.916 kg
Overall outside diameter (Da)	3.815 mm
Overall inside diameter (Di)	3.120 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	268 mm
Liebherr catalogue dimension O (O)	3.504 mm
Liebherr catalogue dimension U (U)	3.490 mm
Liebherr catalogue dimension H1 (H1)	258 mm
Liebherr catalogue dimension H2 (H2)	203 mm
MOUNTING	
Outer ring bolt circle (La)	3.725 mm
Inner ring bolt circle (Li)	3.350 mm
La/Li mounting-hole count (n)	54
Mounting fastener specification (M)	42
Liebherr catalogue count n1 (n1)	9
GEAR	
Gear pitch diameter (d)	3.144 mm
Gear module (m)	24 mm
Gear tooth count (z)	131
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)	65.638 kN
Dynamic load rating (Cdyn)	6,985 D_DOR kN
PERFORMANCE RATINGS	
Rating Static	65.638 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	54 holes - 42
Inner ring mounting	54 holes - 42
GEAR INTERFACE	
Pitch system	module
Module reference	24 mm
Number of teeth	131
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
Original unit system	Mixed_metric_dp_threads

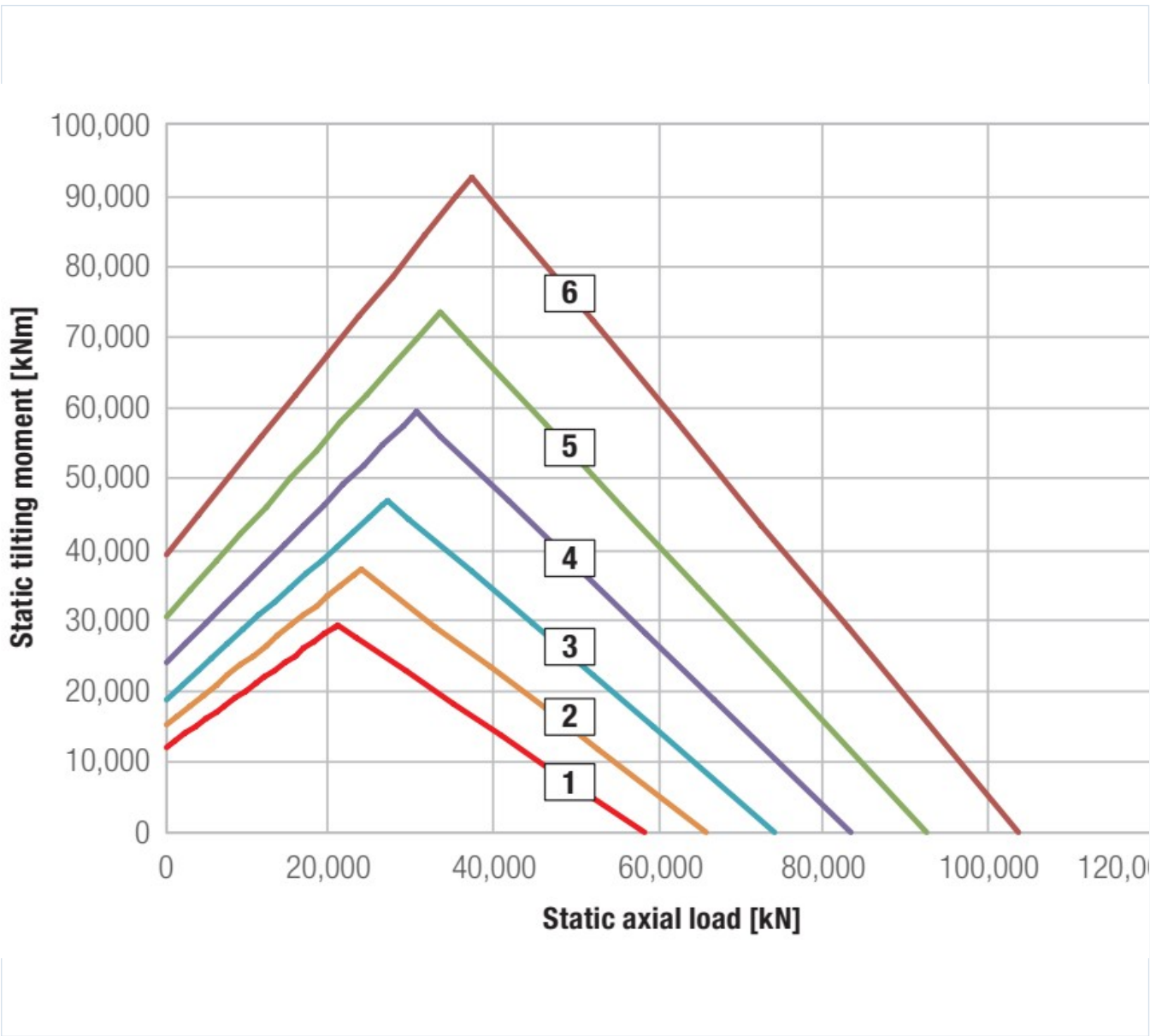
Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

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 YSMVFQ4KML6F2PHFA56BKCBRS	SOURCE DOCUMENT LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
SOURCE FILE liebherr-slewing-bearings-product-catalogue-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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page:
<https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/liebherr/rod03550-050dj15-900-000/>

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