

Factory-Verified Replacement

MERYDOM ROD04000-050DA15-900-000

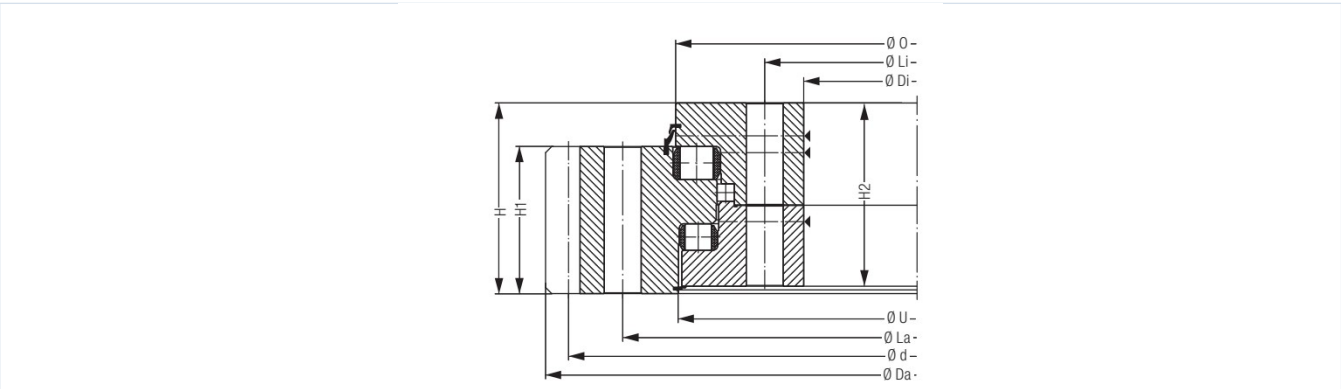
Certified for interchange with Liebherr ROD04000-050DA15-900-000. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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	REFERENCE
ROD04000-050DA15-900-000	Liebherr ROD04000-050DA15-900-000
SERIES	STRUCTURE
ROD_50_DA Series	Rulli a tre file
OVERALL OD	OVERALL ID
4,411.2 mm	3,735 mm
OVERALL HEIGHT	GEAR
268 mm	Dentatura esterna

Published Technical Drawing



liebherr-page-140-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	ROD04000-050DA15-900-000
Certified interchangeable with	Liebherr ROD04000-050DA15-900-000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	44LA6HRVFW4IOZMG4B4YHNCQV4
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_DA Series
Reference model	ROD04000-050DA15-900-000
Bearing structure	Rulli a tre file
Gear arrangement	Dentatura esterna
DIMENSION	
Mass (Weight)	6.578 kg
Overall outside diameter (Da)	4.411,2 mm
Overall inside diameter (Di)	3.735 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	268 mm
Liebherr catalogue dimension O (O)	4.060 mm
Liebherr catalogue dimension U (U)	4.046 mm
Liebherr catalogue dimension H1 (H1)	203 mm
Liebherr catalogue dimension H2 (H2)	258 mm
MOUNTING	
Outer ring bolt circle (La)	4.200 mm
Inner ring bolt circle (Li)	3.825 mm
La/Li mounting-hole count (n)	60
Mounting fastener specification (M)	42
Liebherr catalogue count n1 (n1)	10
GEAR	
Gear pitch diameter (d)	4.344 mm
Gear module (m)	24 mm
Gear tooth count (z)	181
Addendum modification product x^*m (x^*m)	12 mm
Liebherr catalogue gear dimension k^*m (k^*m)	-2,4 mm
Gear face width (b)	203 mm
PERFORMANCE	
Standard tooth force (Fz standard)	423,6 kN

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PERFORMANCE (CONTINUED)	
Maximum tooth force (Fz maximum)	847,2 kN
Static load rating (Cstat)	73.992 kN
Dynamic load rating (Cdyn)	7.442 kN
PERFORMANCE RATINGS	
Rating Dynamic	7.442 kN Not simultaneous with other listed dynamic ratings
Rating Static	73.992 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	60 holes - 42
Inner ring mounting	60 holes - 42
GEAR INTERFACE	
Pitch system	module
Module reference	24 mm
Number of teeth	181
SOURCE TRACEABILITY	
Source document code	LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
Source file	liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf
PDF page	140
Printed page	140

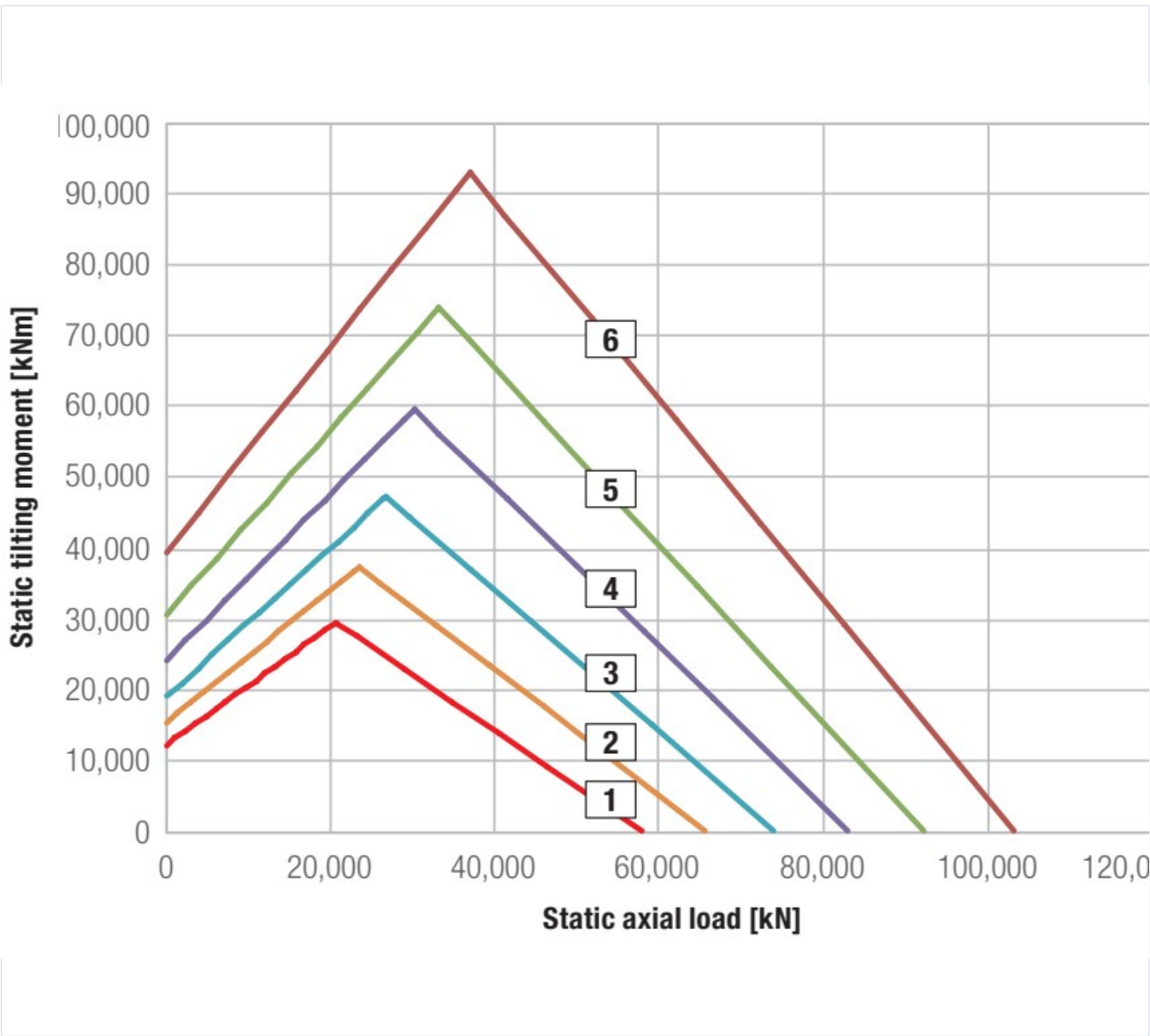
Complete Product Data

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SOURCE TRACEABILITY (CONTINUED)	
Source language	EN
Original unit system	Mixed_metric_dp_threads
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	liebherr-page-140-curve.webp SHA-256: 0c65cc461bef30e426aaeabd1cabef81532429eaaecfb564ee8f935e5d dd668d
Outline Drawing	liebherr-page-140-drawing.webp SHA-256: dce2e2500a3daa3838b8ca5cdd27994184301f3b96c333e0288bb3af5f 2e59cb

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-140-curve.webp | SHA-256: 0c65cc461bef30e426aaebd1cabef81532429eaaecfb564ee8f935e5ddd668d

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

44LA6HRVFW4IOZMG4B4YHNCQV4

SOURCE FILE

liebherr-slewing-bearings-product-ca
talogue-pt-metric-web.pdf

VERIFICATION

Level 3 - MERYDOM Engineering
Verified

SOURCE DOCUMENT

LIEBHERR-SLEWING-BEARINGS-PRODUCT-CA
TALOGUE-2018

SOURCE LOCATION

PDF page 140 | Printed page 140

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/rod04000-050da15-900-000/>

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