

Factory-Verified Replacement

MERYDOM RKD05000-040ZA15-900-000

Certified for interchange with Liebherr RKD05000-040ZA15-900-000. 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

RKD05000-040ZA15-900-000

REFERENCE

Liebherr RKD05000-040ZA15-900-000

SERIES

RKD_40_ZA Series

STRUCTURE

Combinazione rulli/sfere

OVERALL OD

5,276 mm

OVERALL ID

4,776 mm

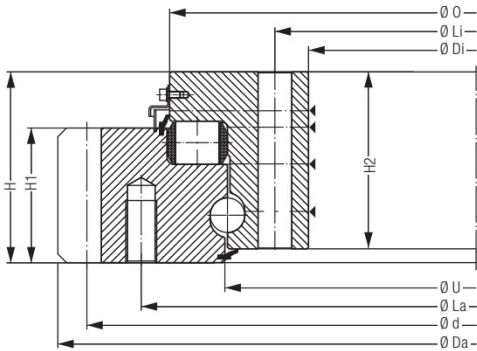
OVERALL HEIGHT

183 mm

GEAR

Dentatura esterna

Published Technical Drawing



liebherr-page-150-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	RKD05000-040ZA15-900-000
Certified interchangeable with	Liebherr RKD05000-040ZA15-900-000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ZLPRAQI2IINDMOBHL43NQPLXV5
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	RKD_40_ZA Series
Reference model	RKD05000-040ZA15-900-000
Bearing structure	Combinazione rulli/sfere
Gear arrangement	Dentatura esterna
DIMENSION	
Mass (Weight)	4.082 kg
Overall outside diameter (Da)	5.276 mm
Overall inside diameter (Di)	4.776 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	183 mm
Liebherr catalogue dimension O (O)	5.056 mm
Liebherr catalogue dimension U (U)	4.950 mm
Liebherr catalogue dimension H1 (H1)	133 mm
Liebherr catalogue dimension H2 (H2)	167 mm
MOUNTING	
Outer ring bolt circle (La)	5.112 mm
Inner ring bolt circle (Li)	4.848 mm
La/Li mounting-hole count (n)	80
Mounting fastener specification (M)	33
Liebherr catalogue count n1 (n1)	16
GEAR	
Gear pitch diameter (d)	5.220 mm
Gear module (m)	20 mm
Gear tooth count (z)	261
Addendum modification product x*m (x*m)	10 mm
Liebherr catalogue gear dimension k*m (k*m)	-2 mm
Gear face width (b)	133 mm
PERFORMANCE	
Standard tooth force (Fz standard)	231,3 kN

Complete Product Data

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PERFORMANCE (CONTINUED)	
Maximum tooth force (Fz maximum)	462,6 kN
Static load rating (Cstat)	73.833 kN
Dynamic load rating (Cdyn)	6.220 kN
PERFORMANCE RATINGS	
Rating Dynamic	6.220 kN Not simultaneous with other listed dynamic ratings
Rating Static	73.833 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	462,6 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Standard	231,3 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	80 holes - 33
Inner ring mounting	80 holes - 33
GEAR INTERFACE	
Pitch system	module
Module reference	20 mm
Number of teeth	261
SOURCE TRACEABILITY	
Source document code	LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
Source file	liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf
PDF page	150
Printed page	150

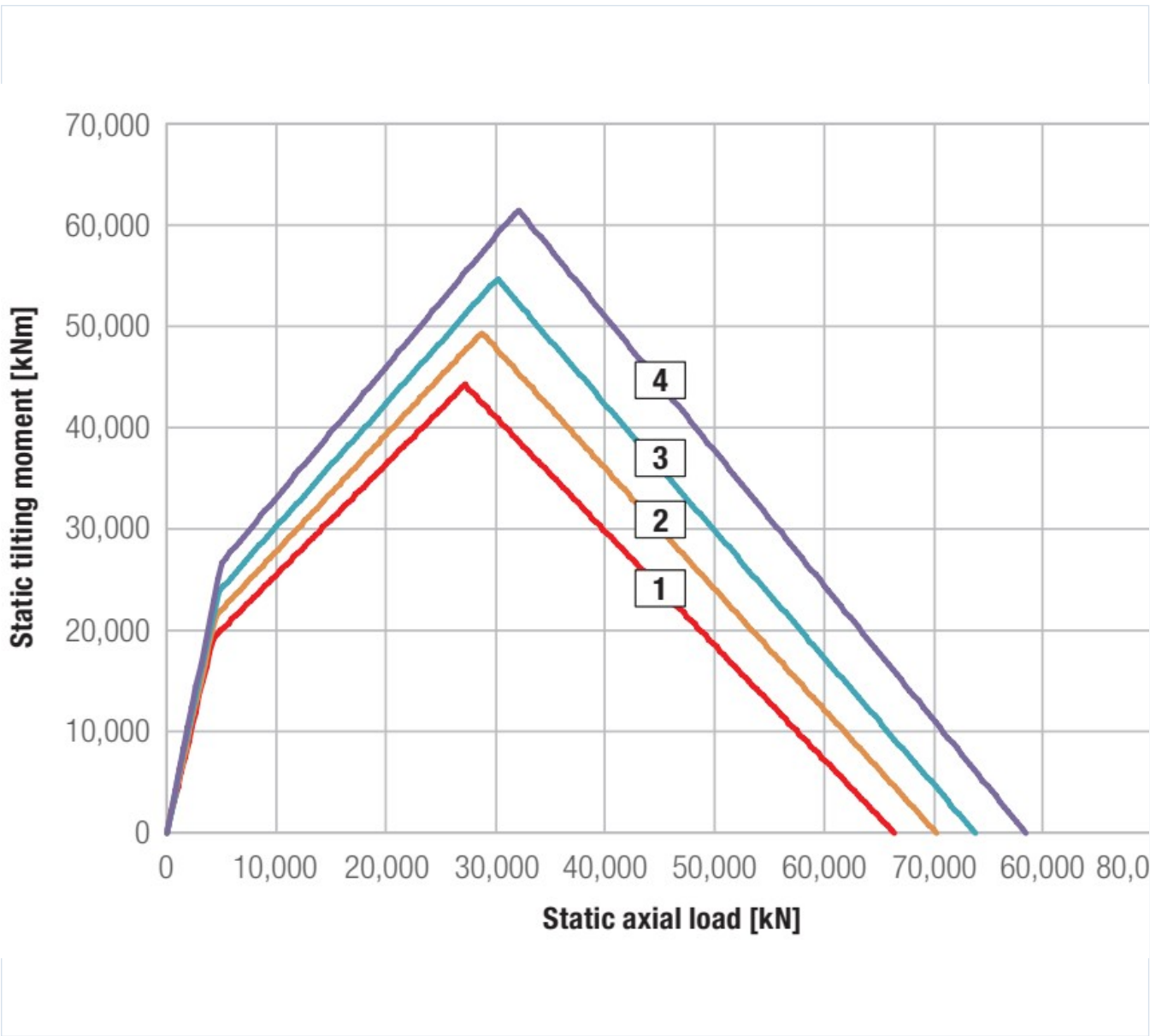
Complete Product Data

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	Mixed_metric_dp_threads
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	liebherr-page-150-curve.webp SHA-256: 537d0dc9269d07cc2f8d65354c0ead353e23043593b3a70a1b3184a782f0bee3
Outline Drawing	liebherr-page-150-drawing.webp SHA-256: 68d72cf1ccc862387afc1b4b5fd626a35444b2f3f2281e8eda672287897546ad

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-150-curve.webp | SHA-256: 537d0dc9269d07cc2f8d65354c0ead353e23043593b3a70a1b3184a782f0bee3

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 ZLPRAQI2IINDMOBHL43NQPLXV5	SOURCE DOCUMENT LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
SOURCE FILE liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf	SOURCE LOCATION PDF page 150 Printed page 150
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/liebherr/rkd05000-040za15-900-000/>

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