

Factory-Verified Replacement

MERYDOM RKD04500-040ZA15-900-000

Certified for interchange with Liebherr RKD04500-040ZA15-900-000. 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

RKD04500-040ZA15-900-000

REFERENCE

Liebherr RKD04500-040ZA15-900-000

SERIES

RKD_40_ZA Series

STRUCTURE

Roller / ball combination

OVERALL OD

4,776 mm

OVERALL ID

4,276 mm

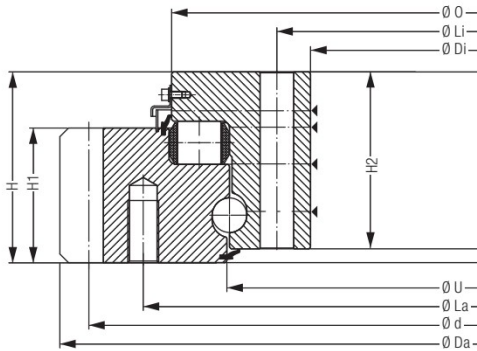
OVERALL HEIGHT

183 mm

GEAR

External gear

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	RKD04500-040ZA15-900-000
Certified interchangeable with	Liebherr RKD04500-040ZA15-900-000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	SHCEBXR4257O7YXJ2RMLVXXJZ
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	RKD04500-040ZA15-900-000
Bearing structure	Roller / ball combination
Gear arrangement	External gear
DIMENSION	
Mass (Weight)	3,673 kg
Overall outside diameter (Da)	4,776 mm
Overall inside diameter (Di)	4,276 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	183 mm
Liebherr catalogue dimension O (O)	4,556 mm
Liebherr catalogue dimension U (U)	4,450 mm
Liebherr catalogue dimension H1 (H1)	133 mm
Liebherr catalogue dimension H2 (H2)	167 mm
MOUNTING	
Outer ring bolt circle (La)	4,612 mm
Inner ring bolt circle (Li)	4,348 mm
La/Li mounting-hole count (n)	72
Mounting fastener specification (M)	33
Liebherr catalogue count n1 (n1)	14
GEAR	
Gear pitch diameter (d)	4,720 mm
Gear module (m)	20 mm
Gear tooth count (z)	236
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)	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	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	72 holes - 33
Inner ring mounting	72 holes - 33
GEAR INTERFACE	
Pitch system	module
Module reference	20 mm
Number of teeth	236
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

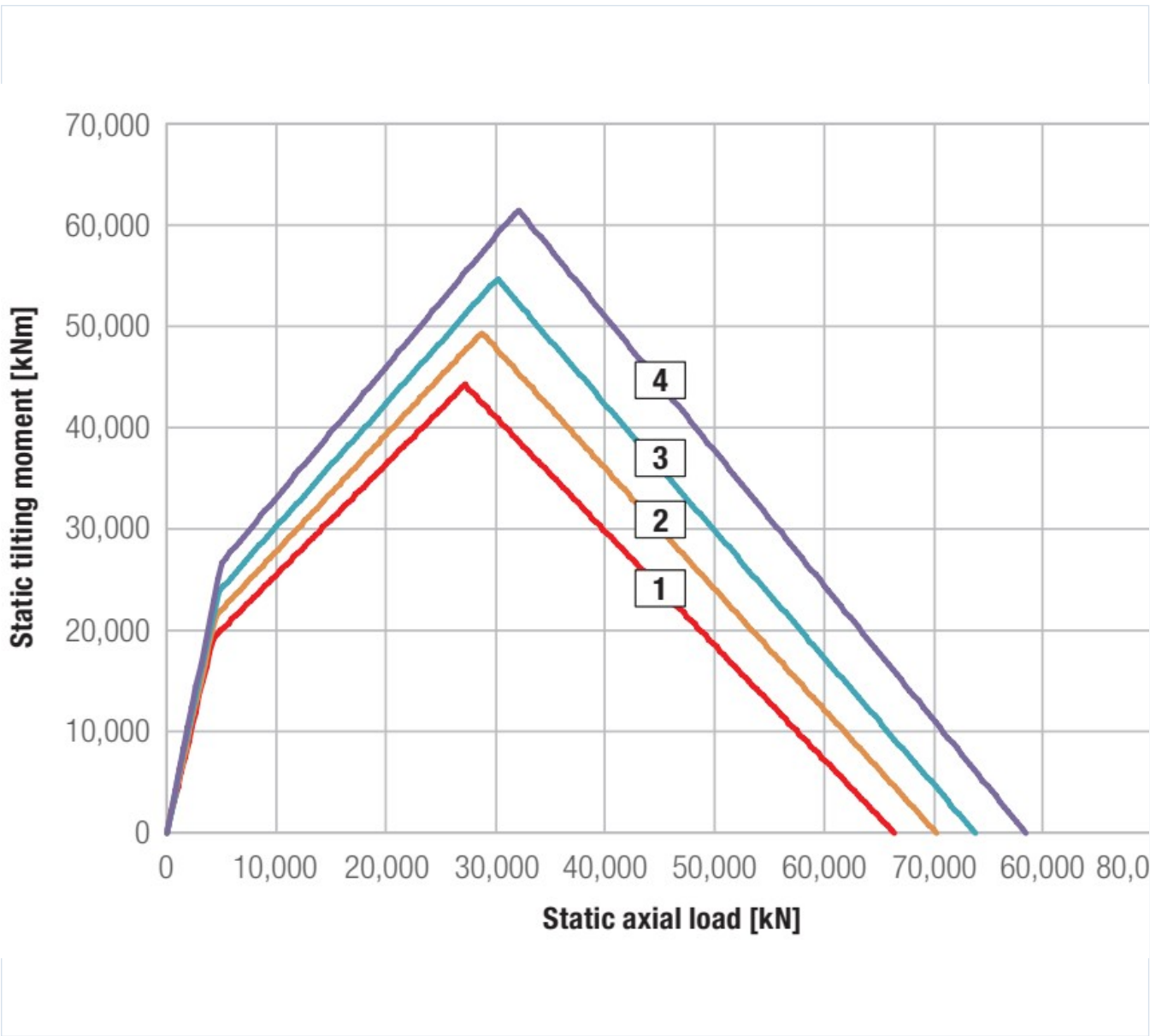
Complete Product Data

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 SHCEBXTR425707YXJ2RMLVXXJZ	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 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/products/slewing-bearing-replacements/liebherr/rkd04500-040za15-900-000/>

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