

Factory-Verified Replacement

MERYDOM RKD04200-050ZA15-900-000

Certified for interchange with Liebherr RKD04200-050ZA15-900-000. 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

RKD04200-050ZA15-900-000

REFERENCE

Liebherr RKD04200-050ZA15-900-000

SERIES

RKD_50_ZA Series

STRUCTURE

Combinação de rolos e esferas

OVERALL OD

4,531.2 mm

OVERALL ID

3,942 mm

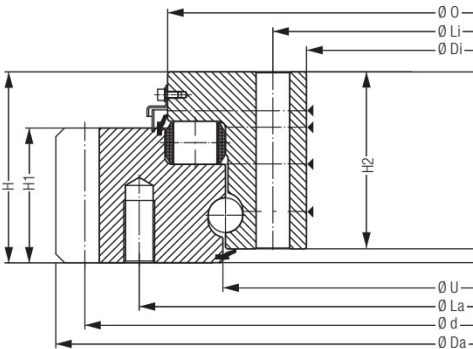
OVERALL HEIGHT

221 mm

GEAR

Engrenagem externa

Published Technical Drawing



liebherr-page-152-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	RKD04200-050ZA15-900-000
Certified interchangeable with	Liebherr RKD04200-050ZA15-900-000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ZNBJTAJYWJMK5ZJEFUT7XRKYCE
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_50_ZA Series
Reference model	RKD04200-050ZA15-900-000
Bearing structure	Combinação de rolos e esferas
Gear arrangement	Engrenagem externa
DIMENSION	
Mass (Weight)	4.798 kg
Overall outside diameter (Da)	4.531,2 mm
Overall inside diameter (Di)	3.942 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	221 mm
Liebherr catalogue dimension O (O)	4.268 mm
Liebherr catalogue dimension U (U)	4.140 mm
Liebherr catalogue dimension H1 (H1)	156 mm
Liebherr catalogue dimension H2 (H2)	205 mm
MOUNTING	
Outer ring bolt circle (La)	4.330 mm
Inner ring bolt circle (Li)	4.020 mm
La/Li mounting-hole count (n)	72
Mounting fastener specification (M)	36
Liebherr catalogue count n1 (n1)	12
GEAR	
Gear pitch diameter (d)	4.464 mm
Gear module (m)	24 mm
Gear tooth count (z)	286
Addendum modification product x^*m (x^*m)	12 mm
Liebherr catalogue gear dimension k^*m (k^*m)	-2,4 mm
Gear face width (b)	156 mm
PERFORMANCE	
Standard tooth force (Fz standard)	325,5 kN

Complete Product Data

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PERFORMANCE (CONTINUED)	
Maximum tooth force (Fz maximum)	651 kN
Static load rating (Cstat)	77.572 kN
Dynamic load rating (Cdyn)	7.627 kN
PERFORMANCE RATINGS	
Rating Dynamic	7.627 kN Not simultaneous with other listed dynamic ratings
Rating Static	77.572 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	651 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Standard	325,5 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	72 holes - 36
Inner ring mounting	72 holes - 36
GEAR INTERFACE	
Pitch system	module
Module reference	24 mm
Number of teeth	286
SOURCE TRACEABILITY	
Source document code	LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
Source file	liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf
PDF page	152
Printed page	152

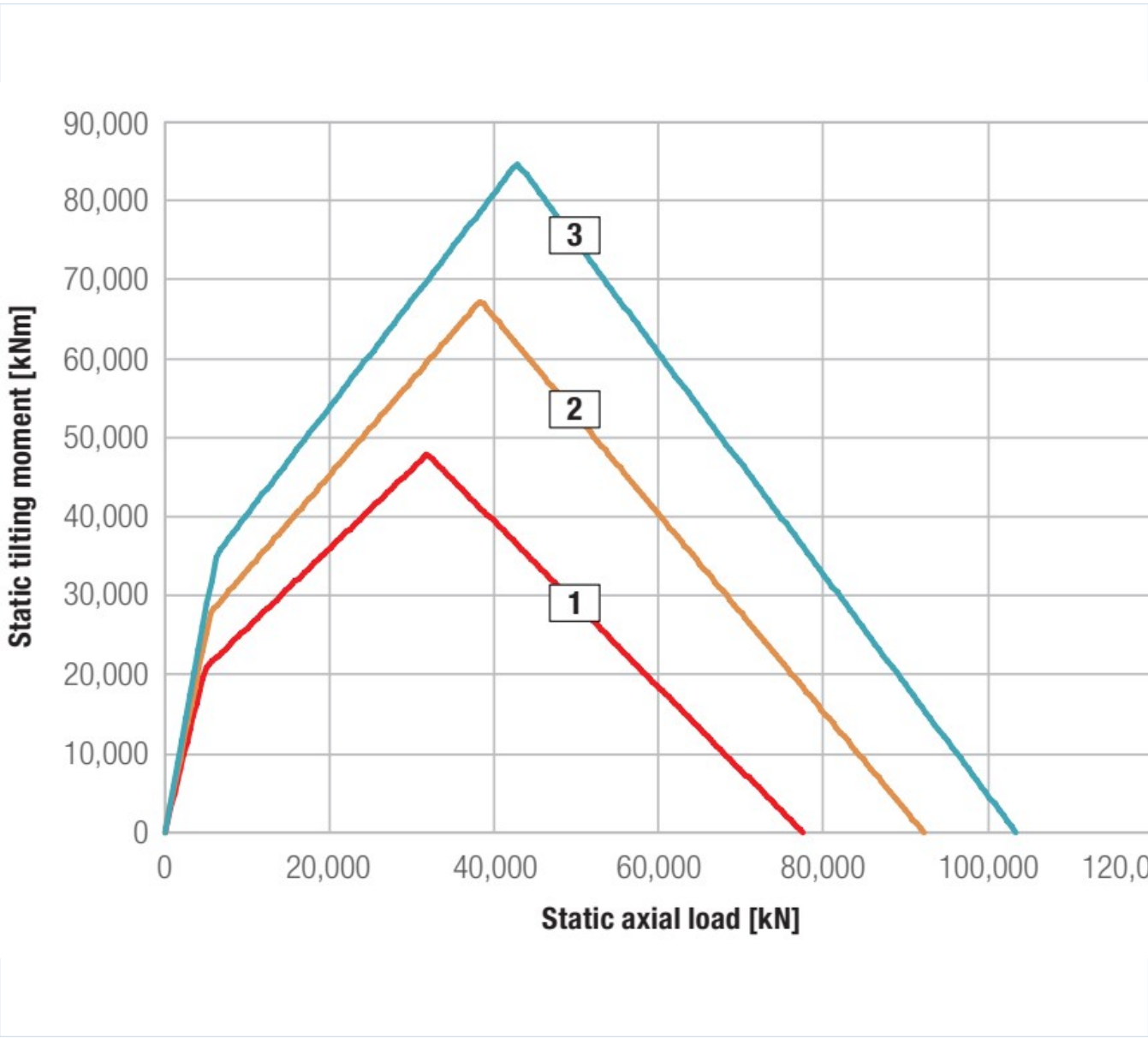
Complete Product Data

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-152-curve.webp SHA-256: 6903e2bdafffae2eb45d3f096ece945520ae58723cd0a251ac932abf33f183dc
Outline Drawing	liebherr-page-152-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-152-curve.webp | SHA-256: 6903e2bdaffae2eb45d3f096ece945520ae58723cd0a251ac932abf33f183dc

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 ZNBJTAJYWJMK5ZJEFUT7XRKYCE	SOURCE DOCUMENT LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
SOURCE FILE liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf	SOURCE LOCATION PDF page 152 Printed page 152
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/rkd04200-050za15-900-000/>

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