

Factory-Verified Replacement

MERYDOM RKD05300-045ZA15-900-000

Certified for interchange with Liebherr RKD05300-045ZA15-900-000. 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

RKD05300-045ZA15-900-000

REFERENCE

Liebherr RKD05300-045ZA15-900-000

SERIES

RKD_45_ZA Series

STRUCTURE

Combinazione rulli/sfere

OVERALL OD

5,605.6 mm

OVERALL ID

5,047 mm

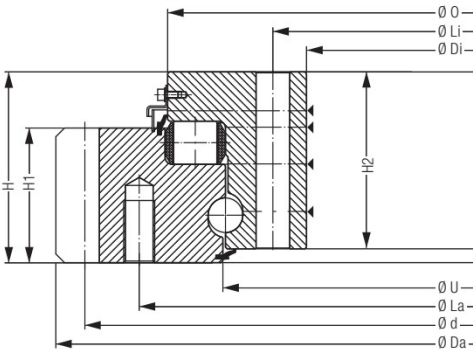
OVERALL HEIGHT

203 mm

GEAR

Dentatura esterna

Published Technical Drawing



liebherr-page-151-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	RKD05300-045ZA15-900-000
Certified interchangeable with	Liebherr RKD05300-045ZA15-900-000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ZJ4YSEEBGWVLM6K2KFV2NF5JXG
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_45_ZA Series
Reference model	RKD05300-045ZA15-900-000
Bearing structure	Combinazione rulli/sfere
Gear arrangement	Dentatura esterna
DIMENSION	
Mass (Weight)	5.602 kg
Overall outside diameter (Da)	5.605,6 mm
Overall inside diameter (Di)	5.047 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	203 mm
Liebherr catalogue dimension O (O)	5.363 mm
Liebherr catalogue dimension U (U)	5.245 mm
Liebherr catalogue dimension H1 (H1)	153 mm
Liebherr catalogue dimension H2 (H2)	187 mm
MOUNTING	
Outer ring bolt circle (La)	5.425 mm
Inner ring bolt circle (Li)	5.125 mm
La/Li mounting-hole count (n)	80
Mounting fastener specification (M)	36
Liebherr catalogue count n1 (n1)	16
GEAR	
Gear pitch diameter (d)	5.544 mm
Gear module (m)	22 mm
Gear tooth count (z)	252
Addendum modification product x^*m (x^*m)	11 mm
Liebherr catalogue gear dimension k^*m (k^*m)	-2,2 mm
Gear face width (b)	153 mm
PERFORMANCE	
Standard tooth force (Fz standard)	292,6 kN

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PERFORMANCE (CONTINUED)	
Maximum tooth force (Fz maximum)	585,2 kN
Static load rating (Cstat)	87.663 kN
Dynamic load rating (Cdyn)	7.563 kN
PERFORMANCE RATINGS	
Rating Dynamic	7.563 kN Not simultaneous with other listed dynamic ratings
Rating Static	87.663 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	585,2 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Standard	292,6 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	80 holes - 36
Inner ring mounting	80 holes - 36
GEAR INTERFACE	
Pitch system	module
Module reference	22 mm
Number of teeth	252
SOURCE TRACEABILITY	
Source document code	LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
Source file	liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf
PDF page	151
Printed page	151

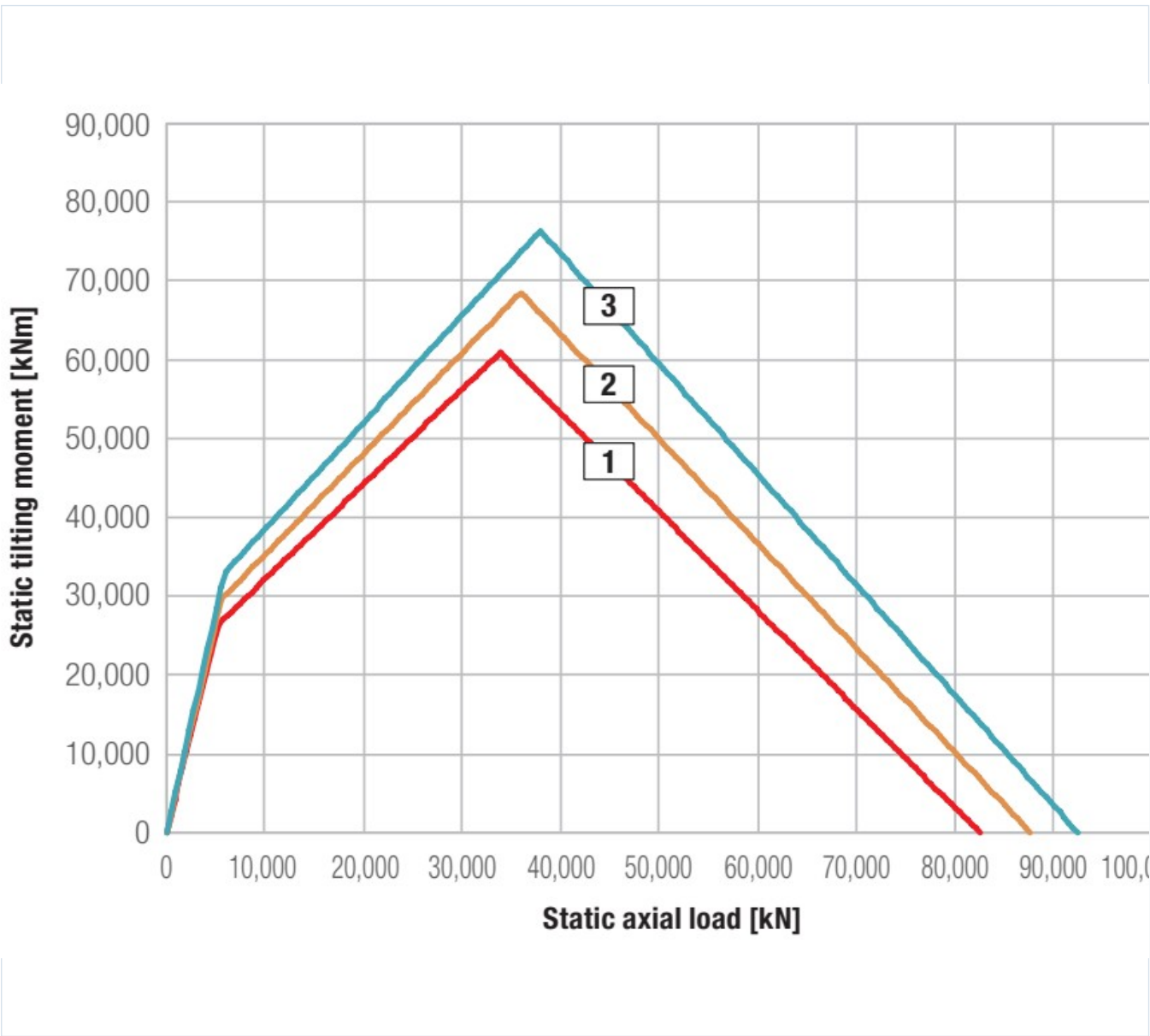
Complete Product Data

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-151-curve.webp SHA-256: 8058a6db3a2c6383cd0958c7d037f22032df1b0f8e8ee070d6549aacfe17b59d
Outline Drawing	liebherr-page-151-drawing.webp SHA-256: 513823a65f9a22dc3bfe4d3d82d3df300113aadb31ccefb6b25aada642508b87

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-151-curve.webp | SHA-256: 8058a6db3a2c6383cd0958c7d037f22032df1b0f8e8ee070d6549aacfe17b59d

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 ZJ4YSEEBGWVLM6K2K2NF5JXG	SOURCE DOCUMENT LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
SOURCE FILE liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf	SOURCE LOCATION PDF page 151 Printed page 151
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/rkd05300-045za15-900-000/>

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