

Factory-Verified Replacement

MERYDOM KUD02297-050WA15-900-000

Certified for interchange with Liebherr KUD02297-050WA15-900-000. 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

KUD02297-050WA15-900-000

REFERENCE

Liebherr KUD02297-050WA15-900-000

SERIES

KUD_50_WA Series

STRUCTURE

Double-row four-point contact ball

OVERALL OD

2,545.2 mm

OVERALL ID

2,115 mm

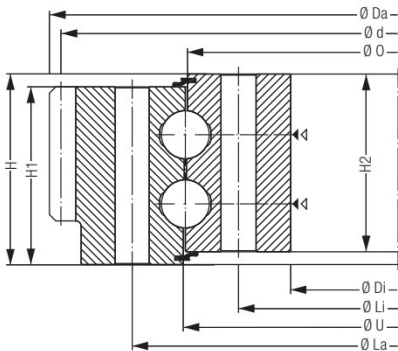
OVERALL HEIGHT

184 mm

GEAR

External gear

Published Technical Drawing



liebherr-page-116-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	KUD02297-050WA15-900-000
Certified interchangeable with	Liebherr KUD02297-050WA15-900-000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	VJRVHFHFHK4DLTW7JP7ZABMW2L
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	KUD_50_WA Series
Reference model	KUD02297-050WA15-900-000
Bearing structure	Double-row four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (Weight)	1,731 kg
Overall outside diameter (Da)	2,545.2 mm
Overall inside diameter (Di)	2,115 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	184 mm
Liebherr catalogue dimension O (O)	2,395 mm
Liebherr catalogue dimension U (U)	2,399 mm
Liebherr catalogue dimension H1 (H1)	172 mm
Liebherr catalogue dimension H2 (H2)	172 mm
MOUNTING	
Outer ring bolt circle (La)	2,404 mm
Inner ring bolt circle (Li)	2,187 mm
La/Li mounting-hole count (n)	64
Mounting fastener specification (M)	33
Liebherr catalogue count n1 (n1)	8
GEAR	
Gear pitch diameter (d)	2,506 mm
Gear module (m)	14 mm
Gear tooth count (z)	179
Addendum modification product x^*m (x^*m)	7 mm
Liebherr catalogue gear dimension k^*m (k^*m)	-1.4 mm
Gear face width (b)	140 mm
PERFORMANCE	
Standard tooth force (Fz standard)	170.4 kN

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PERFORMANCE (CONTINUED)	
Maximum tooth force (Fz maximum)	340.9 kN
Static load rating (Cstat)	33,389 kN
Dynamic load rating (Cdyn)	2,082 kN
PERFORMANCE RATINGS	
Rating Dynamic	2,082 kN Not simultaneous with other listed dynamic ratings
Rating Static	33,389 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	340.9 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Standard	170.4 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	64 holes - 33
Inner ring mounting	64 holes - 33
GEAR INTERFACE	
Pitch system	module
Module reference	14 mm
Number of teeth	179
SOURCE TRACEABILITY	
Source document code	LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
Source file	liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf
PDF page	116
Printed page	116

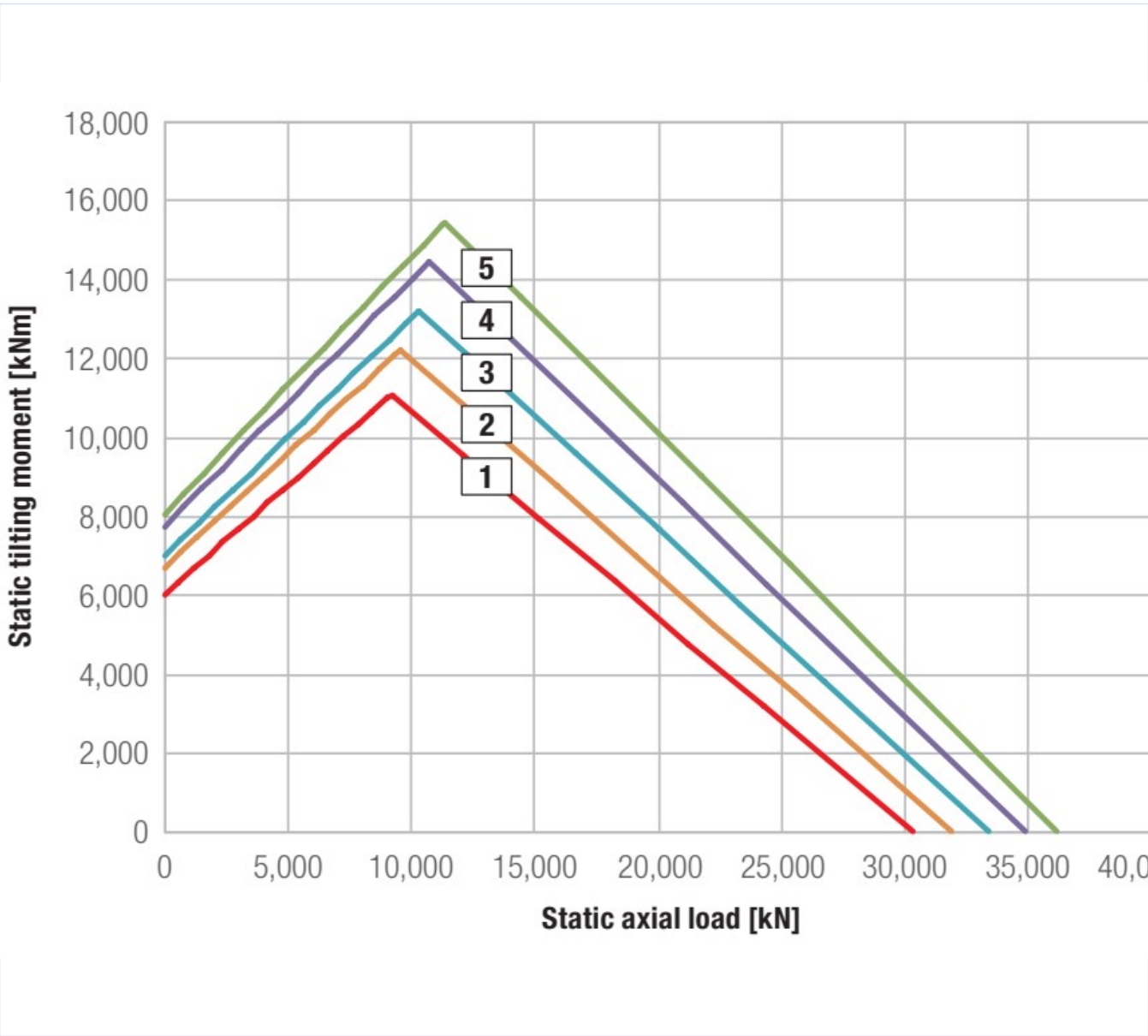
Complete Product Data

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-116-curve.webp SHA-256: 8c3ca9db8e5c4248ca34c0daaeb49b2f1c13d65f926296b9ba96e29f91 acb224
Outline Drawing	liebherr-page-116-drawing.webp SHA-256: c923787016501ada475c415e443d8ba58133ea972b468b4aca029949fe 2299c9

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-116-curve.webp | SHA-256: 8c3ca9db8e5c4248ca34c0daaeb49b2f1c13d65f926296b9ba96e29f91acb224

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 VJRVHFHFHK4DLTW7JP7ZABMW2L	SOURCE DOCUMENT LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
SOURCE FILE liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf	SOURCE LOCATION PDF page 116 Printed page 116
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/kud02297-050wa15-900-000/>

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