

Factory-Verified Replacement

MERYDOM KUD02050-045VA15-900-000

Certified for interchange with Liebherr KUD02050-045VA15-900-000. 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

KUD02050-045VA15-900-000

REFERENCE

Liebherr KUD02050-045VA15-900-000

SERIES

KUD_45_VA Series

STRUCTURE

Four-point contact ball

OVERALL OD

2,279.2 mm

OVERALL ID

1,889 mm

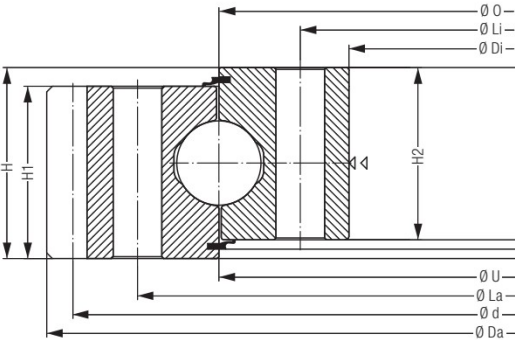
OVERALL HEIGHT

114 mm

GEAR

External gear

Published Technical Drawing



liebherr-page-081-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	KUD02050-045VA15-900-000
Certified interchangeable with	Liebherr KUD02050-045VA15-900-000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	LOXCD3UF6VYSHHK7CEP7JTQ4TA
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_45_VA Series
Reference model	KUD02050-045VA15-900-000
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (Weight)	839 kg
Overall outside diameter (Da)	2,279.2 mm
Overall inside diameter (Di)	1,889 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	114 mm
Liebherr catalogue dimension O (O)	2,050 mm
Liebherr catalogue dimension U (U)	2,050 mm
Liebherr catalogue dimension H1 (H1)	102 mm
Liebherr catalogue dimension H2 (H2)	102 mm
MOUNTING	
Outer ring bolt circle (La)	2,145 mm
Inner ring bolt circle (Li)	1,955 mm
La/Li mounting-hole count (n)	60
Mounting fastener specification (M)	30
Liebherr catalogue count n1 (n1)	8
GEAR	
Gear pitch diameter (d)	2,240 mm
Gear module (m)	14 mm
Gear tooth count (z)	160
Addendum modification product x^*m (x^*m)	7 mm
Liebherr catalogue gear dimension k^*m (k^*m)	-1.4 mm
Gear face width (b)	102 mm
PERFORMANCE	
Standard tooth force (Fz standard)	131.07 kN

Complete Product Data

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PERFORMANCE (CONTINUED)	
Maximum tooth force (Fz maximum)	262.14 kN
Static load rating (Cstat)	13,420 kN
Dynamic load rating (Cdyn)	1,103 kN
PERFORMANCE RATINGS	
Rating Dynamic	1,103 kN Not simultaneous with other listed dynamic ratings
Rating Static	13,420 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	262.14 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Standard	131.07 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	60 holes - 30
Inner ring mounting	60 holes - 30
GEAR INTERFACE	
Pitch system	module
Module reference	14 mm
Number of teeth	160
SOURCE TRACEABILITY	
Source document code	LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
Source file	liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf
PDF page	81
Printed page	81

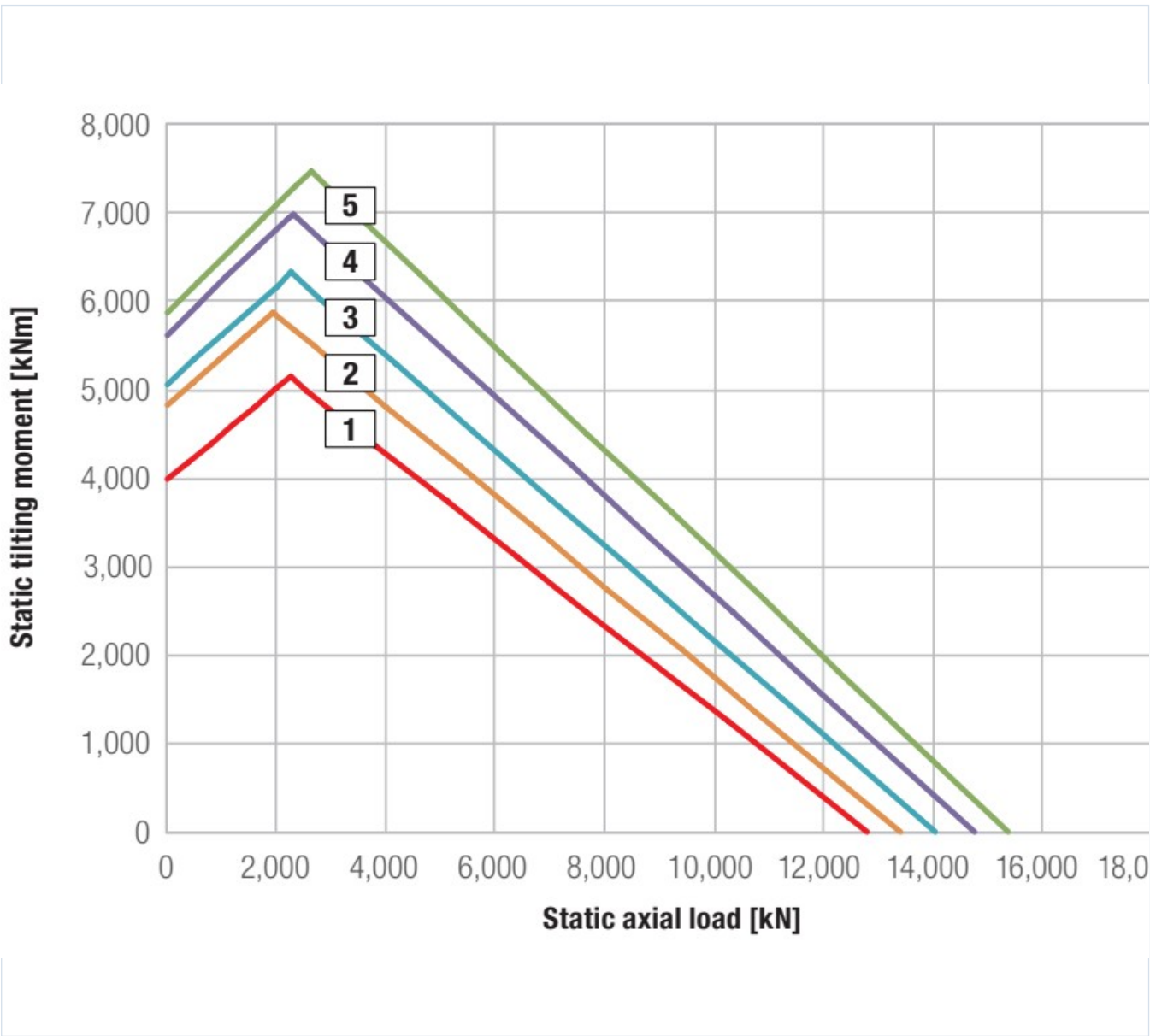
Complete Product Data

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-081-curve.webp SHA-256: 365600b220ef0ee57028c7ac1d6d010e50622bbceaaadf81b73dd3a4b15385b5
Outline Drawing	liebherr-page-081-drawing.webp SHA-256: db34e1504e6591931b5f3e1583fb348ba02ee25eefc0bb1683f460effedc2af2

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-081-curve.webp | SHA-256: 365600b220ef0ee57028c7ac1d6d010e50622bbceaaadf81b73dd3a4b15385b5

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 LOXCD3UF6VYSHHK7CEP7JTQ4TA	SOURCE DOCUMENT LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018
SOURCE FILE liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf	SOURCE LOCATION PDF page 81 Printed page 81
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/kud02050-045va15-900-000/>

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