

Factory-Verified Replacement

MERYDOM RKD04500-036ZA15-900-000

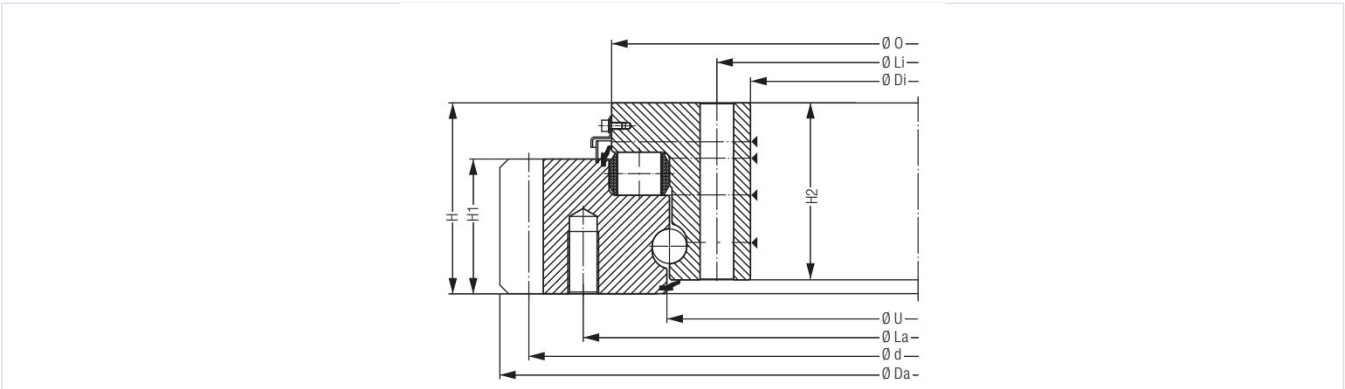
Certified for interchange with Liebherr RKD04500-036ZA15-900-000. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

**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            | REFERENCE                         |
| RKD04500-036ZA15-900-000 | Liebherr RKD04500-036ZA15-900-000 |
| SERIES                   | STRUCTURE                         |
| RKD_36_ZA Series         | Combinação de rolos e esferas     |
| OVERALL OD               | OVERALL ID                        |
| 4,748 mm                 | 4,292 mm                          |
| OVERALL HEIGHT           | GEAR                              |
| 175 mm                   | Engrenagem externa                |

Published Technical Drawing



liebherr-page-149-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                        | RKD04500-036ZA15-900-000               |
| Certified interchangeable with       | Liebherr RKD04500-036ZA15-900-000      |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | EHAV7MCY4USMEMEIW4LFGSQXLZ             |
| 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_36_ZA Series                       |
| Reference model                      | RKD04500-036ZA15-900-000               |
| Bearing structure                    | Combinação de rolos e esferas          |
| Gear arrangement                     | Engrenagem externa                     |
| DIMENSION                            |                                        |
| Mass (Weight)                        | 3.173 kg                               |
| Overall outside diameter (Da)        | 4.748 mm                               |
| Overall inside diameter (Di)         | 4.292 mm                               |

## 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.

| DIMENSION (CONTINUED)                               |          |
|-----------------------------------------------------|----------|
| Overall height (H)                                  | 175 mm   |
| Liebherr catalogue dimension O (O)                  | 4.551 mm |
| Liebherr catalogue dimension U (U)                  | 4.455 mm |
| Liebherr catalogue dimension H1 (H1)                | 125 mm   |
| Liebherr catalogue dimension H2 (H2)                | 159 mm   |
| MOUNTING                                            |          |
| Outer ring bolt circle (La)                         | 4.599 mm |
| Inner ring bolt circle (Li)                         | 4.358 mm |
| La/Li mounting-hole count (n)                       | 84       |
| Mounting fastener specification (M)                 | 30       |
| Liebherr catalogue count n1 (n1)                    | 14       |
| GEAR                                                |          |
| Gear pitch diameter (d)                             | 4.698 mm |
| Gear module (m)                                     | 18 mm    |
| Gear tooth count (z)                                | 261      |
| Addendum modification product $x^*m$ ( $x^*m$ )     | 9 mm     |
| Liebherr catalogue gear dimension $k^*m$ ( $k^*m$ ) | -1,8 mm  |
| Gear face width (b)                                 | 125 mm   |
| PERFORMANCE                                         |          |
| Standard tooth force (Fz standard)                  | 195,6 kN |

Complete Product Data

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| PERFORMANCE (CONTINUED)          |                                                                |
|----------------------------------|----------------------------------------------------------------|
| Maximum tooth force (Fz maximum) | 391,2 kN                                                       |
| Static load rating (Cstat)       | 60.087 kN                                                      |
| Dynamic load rating (Cdyn)       | 5.136 kN                                                       |
| PERFORMANCE RATINGS              |                                                                |
| Rating Dynamic                   | 5.136 kN   Not simultaneous with other listed dynamic ratings  |
| Rating Static                    | 60.087 kN   Not simultaneous with other listed dynamic ratings |
| Rating Tooth Force Max           | 391,2 kN   Not simultaneous with other listed dynamic ratings  |
| Rating Tooth Force Standard      | 195,6 kN   Not simultaneous with other listed dynamic ratings  |
| MOUNTING INTERFACES              |                                                                |
| Outer ring mounting              | 84 holes - 30                                                  |
| Inner ring mounting              | 84 holes - 30                                                  |
| GEAR INTERFACE                   |                                                                |
| Pitch system                     | module                                                         |
| Module reference                 | 18 mm                                                          |
| Number of teeth                  | 261                                                            |
| SOURCE TRACEABILITY              |                                                                |
| Source document code             | LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018               |
| Source file                      | liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf  |
| PDF page                         | 149                                                            |
| Printed page                     | 149                                                            |

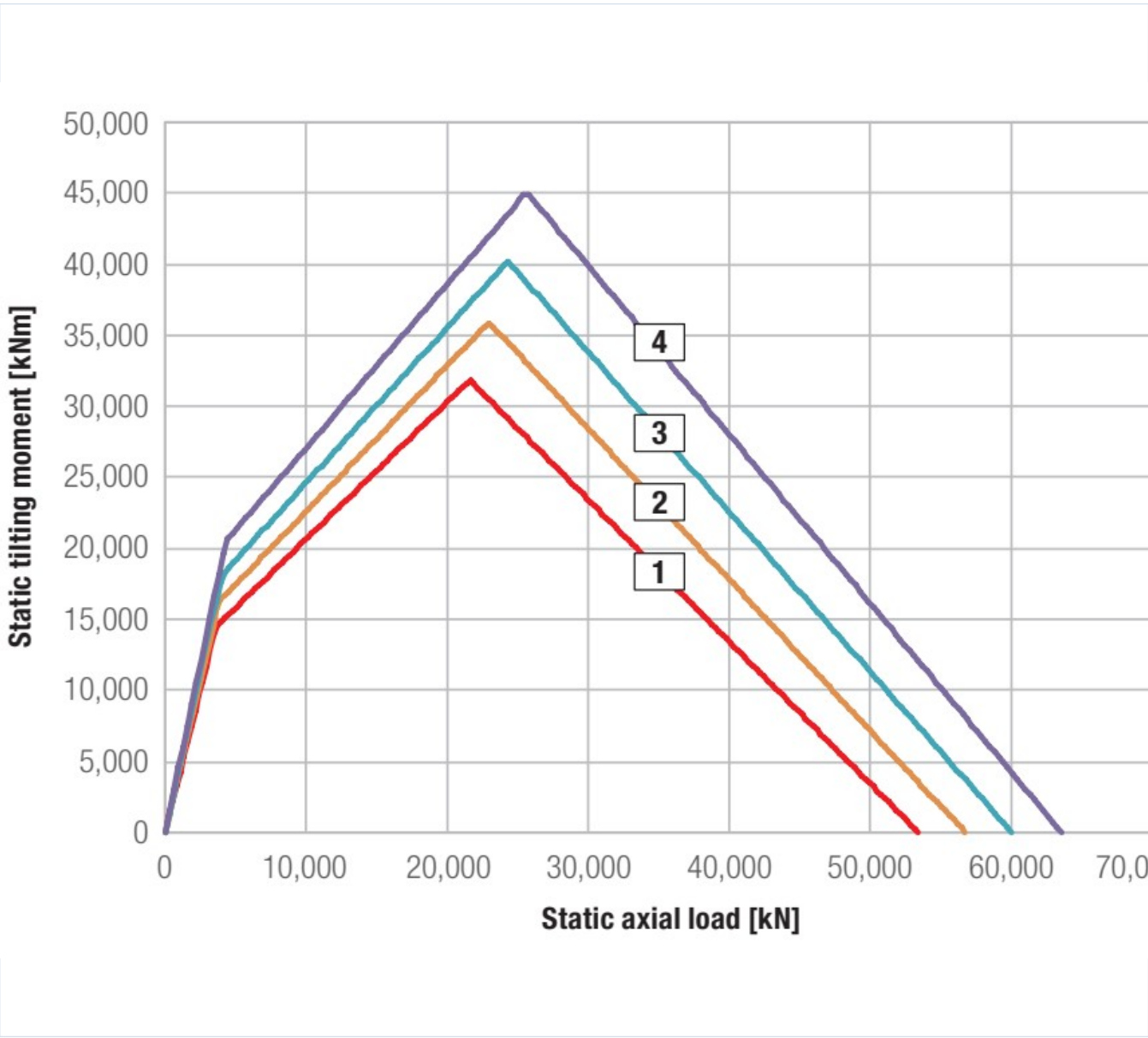
Complete Product Data

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| SOURCE TRACEABILITY (CONTINUED) |                                                                                                               |
|---------------------------------|---------------------------------------------------------------------------------------------------------------|
| Source language                 | EN                                                                                                            |
| Original unit system            | Mixed_metric_dp_threads                                                                                       |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                               |
| Load Curve Chart                | liebherr-page-149-curve.webp   SHA-256:<br>21834e3c088a66eab6ac08ec8ed6ab25b0e019220c4f16838f7d9e27eb7f8b28   |
| Outline Drawing                 | liebherr-page-149-drawing.webp   SHA-256:<br>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-149-curve.webp | SHA-256: 21834e3c088a66eab6ac08ec8ed6ab25b0e019220c4f16838f7d9e27eb7f8b28

Engineering note: final approval must also consider mounting rigidity, bolt capacity, duty cycle, lubrication, temperature, environment and installation conditions.

Source and Verification Traceability

|                                                                                                 |                                                                                        |
|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>EHAV7MCY4USMEMEIW4LFSGQXLZ</div>                              | <div>SOURCE DOCUMENT</div> <div>LIEBHERR-SLEWING-BEARINGS-PRODUCT-CATALOGUE-2018</div> |
| <div>SOURCE FILE</div> <div>liebherr-slewing-bearings-product-catalogue-pt-metric-web.pdf</div> | <div>SOURCE LOCATION</div> <div>PDF page 149   Printed page 149</div>                  |
| <div>VERIFICATION</div> <div>Level 3 - MERYDOM Engineering<br/>Verified</div>                   | <div>REVIEWED BY</div> <div>MERYDOM Engineering Department</div>                       |

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/pt/produtos/rolamentos-de-giro-de-substituicao/liebherr/rkd04500-036za15-900-000/>

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