

**MERYDOM 061.50.2130.001.49.1504**

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

**061.50.2130.001.49.1504**

**Rothe Erde 061.50.2130.001.49.1504**

## 06 Series

### Single-row four-point contact ball

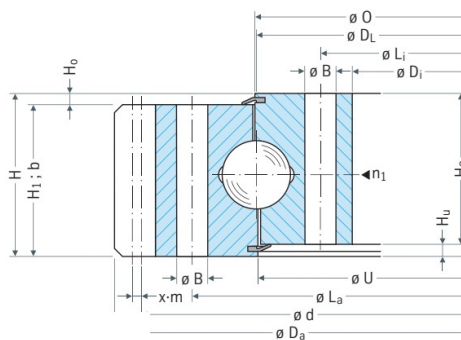
**2,380.8 mm**

**1,959 mm**

**109 mm**

### External gear

## Published Technical Drawing



page-078-outline.png

## 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                        | 061.50.2130.001.49.1504                |
| Certified interchangeable with       | Rothe Erde 061.50.2130.001.49.1504     |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | IP4JKR4RF7K5GNNBRJNMQ3UWPV             |
| MATERIALS                            |                                        |
| Configurable ring material options   | 42CrMo / 50Mn                          |
| Seal material                        | NBR - Nitrile rubber                   |
| Configurable spacer material options | Engineering nylon / Brass              |
| IDENTIFICATION                       |                                        |
| Reference brand                      | Rothe Erde                             |
| Reference series                     | 06 Series                              |
| Reference model                      | 061.50.2130.001.49.1504                |
| Bearing structure                    | Single-row four-point contact ball     |
| Gear arrangement                     | External gear                          |
| DIMENSION                            |                                        |
| Raceway diameter (DL)                | 2,130 mm                               |
| Overall outside diameter (Da)        | 2,380.8 mm                             |
| Overall inside diameter (Di)         | 1,959 mm                               |

## Complete Product Data

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| DIMENSION (CONTINUED)                     |          |
|-------------------------------------------|----------|
| Overall height (H)                        | 109 mm   |
| Catalog diameter O (O)                    | 2,132 mm |
| Catalog diameter U (U)                    | 2,128 mm |
| Ring height H1 (H1)                       | 100 mm   |
| Ring height H2 (H2)                       | 99 mm    |
| Lower ring offset Hu (Hu)                 | 10 mm    |
| Upper ring offset Ho (Ho)                 | 9 mm     |
| Assembly weight (Weight)                  | 931 kg   |
| MOUNTING                                  |          |
| Outer ring bolt circle (La)               | 2,235 mm |
| Inner ring bolt circle (Li)               | 2,025 mm |
| Common mounting-hole count (n)            | 48       |
| Common mounting-hole diameter (B)         | 33 mm    |
| Metric bolt nominal size (M)              | 30 mm    |
| GEAR                                      |          |
| Gear pitch diameter (d)                   | 2,336 mm |
| Gear module (m)                           | 16 mm    |
| Gear tooth count (z)                      | 146      |
| Profile shift product x m (x*m)           | 8 mm     |
| Tip-height modification product k m (k*m) | -1.6 mm  |

Complete Product Data

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|                                               |                                                                |
|-----------------------------------------------|----------------------------------------------------------------|
| GEAR (CONTINUED)                              |                                                                |
| Minimum gear face width (bmin)                | 99 mm                                                          |
| PERFORMANCE                                   |                                                                |
| Permitted circumferential force, normal (X1)  | 145.39 kN                                                      |
| Permitted circumferential force, maximum (X2) | 290.78 kN                                                      |
| MISCELLANEOUS                                 |                                                                |
| Grease nipple count (n1)                      | 8                                                              |
| PERFORMANCE RATINGS                           |                                                                |
| Catalog Reference X1                          | 145.39 kN   Not simultaneous with other listed dynamic ratings |
| Catalog Reference X2                          | 290.78 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                           |                                                                |
| Outer ring mounting                           | 48 holes - M 30                                                |
| Inner ring mounting                           | 48 holes - B 33                                                |
| GEAR INTERFACE                                |                                                                |
| Pitch system                                  | module                                                         |
| Module reference                              | 16 mm                                                          |
| Number of teeth                               | 146                                                            |
| SOURCE TRACEABILITY                           |                                                                |
| Source document code                          | ROTHERDE_CATALOG_2023                                          |
| Source file                                   | Rothe Erde.pdf                                                 |
| PDF page                                      | 78                                                             |
| Printed page                                  | 150-151                                                        |

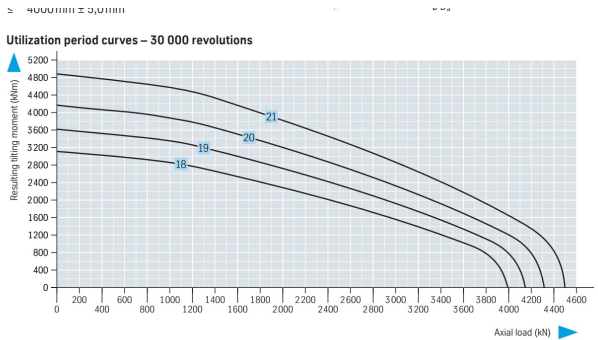
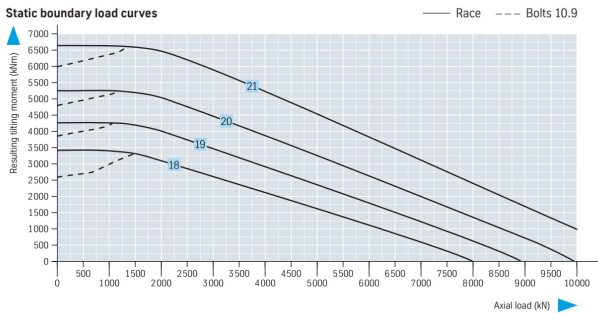
Complete Product Data

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| SOURCE TRACEABILITY (CONTINUED) |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Source language                 | EN                                                                                                      |
| Original unit system            | Metric                                                                                                  |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                         |
| Load Curve Chart                | page-078-load-curves.png   SHA-256:<br>9a6f9d8ae1e72bc9de682e5b71a46417dd815db6473bf000bb66cfa2dc1b67e1 |
| Outline Drawing                 | page-078-outline.png   SHA-256:<br>fbb761db55c943918e087e76a73723faa738c94b1e5085319051d15ed415de72     |

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.



page-078-load-curves.png | SHA-256: 9a6f9d8ae1e72bc9de682e5b71a46417dd815db6473bf000bb66cfa2dc1b67e1

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>IP4JKR4RF7K5GNNBRJNMQ3UWPV</div>            | <div>SOURCE DOCUMENT</div> <div>ROTHE_ERDE_CATALOG_2023</div>            |
| <div>SOURCE FILE</div> <div>Rothe Erde.pdf</div>                              | <div>SOURCE LOCATION</div> <div>PDF page 78   Printed page 150-151</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](mailto:jovi@merydom.com) | Email: [andi@merydom.com](mailto:andi@merydom.com) | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/rothe-erde/061-50-2130-001-49-1504/>

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