

Factory-Verified Replacement

MERYDOM 192.50.5000.990.41.1501

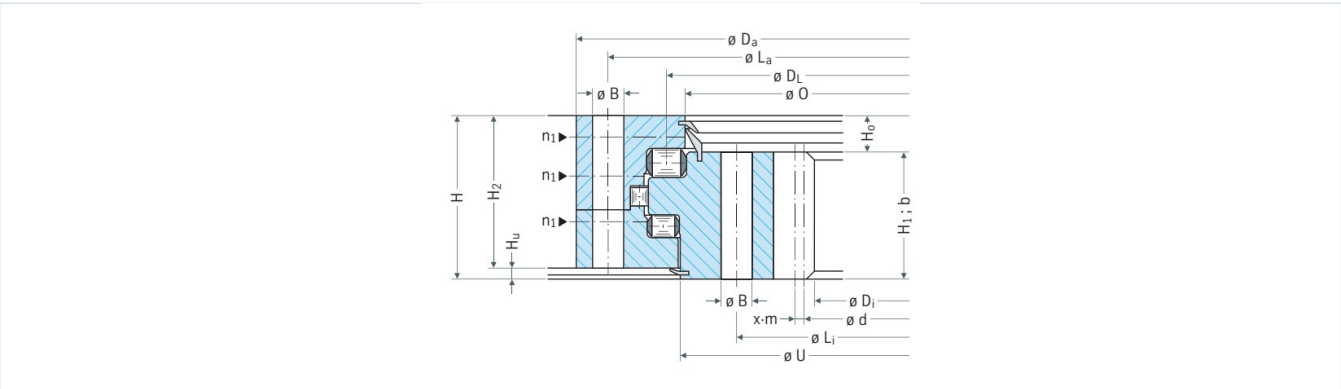
Certified for interchange with Rothe Erde 192.50.5000.990.41.1501. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

**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                          |
| 192.50.5000.990.41.1501 | Rothe Erde 192.50.5000.990.41.1501 |
| SERIES                  | STRUCTURE                          |
| 19 Series               | Three-row roller                   |
| OVERALL OD              | OVERALL ID                         |
| 5,265 mm                | 4,584 mm                           |
| OVERALL HEIGHT          | GEAR                               |
| 268 mm                  | Internal gear                      |

Published Technical Drawing



page-106-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                        | 192.50.5000.990.41.1501                |
| Certified interchangeable with       | Rothe Erde 192.50.5000.990.41.1501     |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | PGGSMHA4R3UXPMKWZC4PT2HCGA             |
| 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                     | 19 Series                              |
| Reference model                      | 192.50.5000.990.41.1501                |
| Bearing structure                    | Three-row roller                       |
| Gear arrangement                     | Internal gear                          |
| DIMENSION                            |                                        |
| Raceway diameter (DL)                | 5,000 mm                               |
| Overall outside diameter (Da)        | 5,265 mm                               |
| Overall inside diameter (Di)         | 4,584 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)                | 268 mm   |
| Catalog diameter O (O)            | 4,940 mm |
| Catalog diameter U (U)            | 4,954 mm |
| Ring height H1 (H1)               | 203 mm   |
| Ring height H2 (H2)               | 258 mm   |
| Lower ring offset Hu (Hu)         | 10 mm    |
| Upper ring offset Ho (Ho)         | 65 mm    |
| Assembly weight (Weight)          | 8,182 kg |
| MOUNTING                          |          |
| Outer ring bolt circle (La)       | 5,175 mm |
| Inner ring bolt circle (Li)       | 4,800 mm |
| Common mounting-hole count (n)    | 78       |
| Common mounting-hole diameter (B) | 45 mm    |
| Metric bolt nominal size (M)      | 42 mm    |
| GEAR                              |          |
| Gear pitch diameter (d)           | 4,608 mm |
| Gear module (m)                   | 24 mm    |
| Gear tooth count (z)              | 192      |
| Profile shift product x m (x*m)   | -12 mm   |
| Minimum gear face width (bmin)    | 202 mm   |

Complete Product Data

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| PERFORMANCE                                   |                                                                |
|-----------------------------------------------|----------------------------------------------------------------|
| Permitted circumferential force, normal (X1)  | 421.57 kN                                                      |
| Permitted circumferential force, maximum (X2) | 843.13 kN                                                      |
| MISCELLANEOUS                                 |                                                                |
| Grease nipple count (n1)                      | 13                                                             |
| PERFORMANCE RATINGS                           |                                                                |
| Catalog Reference X1                          | 421.57 kN   Not simultaneous with other listed dynamic ratings |
| Catalog Reference X2                          | 843.13 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                           |                                                                |
| Outer ring mounting                           | 78 holes - B 45                                                |
| Inner ring mounting                           | 78 holes - M 42                                                |
| GEAR INTERFACE                                |                                                                |
| Pitch system                                  | module                                                         |
| Module reference                              | 24 mm                                                          |
| Number of teeth                               | 192                                                            |
| SOURCE TRACEABILITY                           |                                                                |
| Source document code                          | ROTHE_ERDE_CATALOG_2023                                        |
| Source file                                   | Rothe Erde.pdf                                                 |
| PDF page                                      | 106                                                            |
| Printed page                                  | 206-207                                                        |
| Source language                               | EN                                                             |
| Original unit system                          | Metric                                                         |

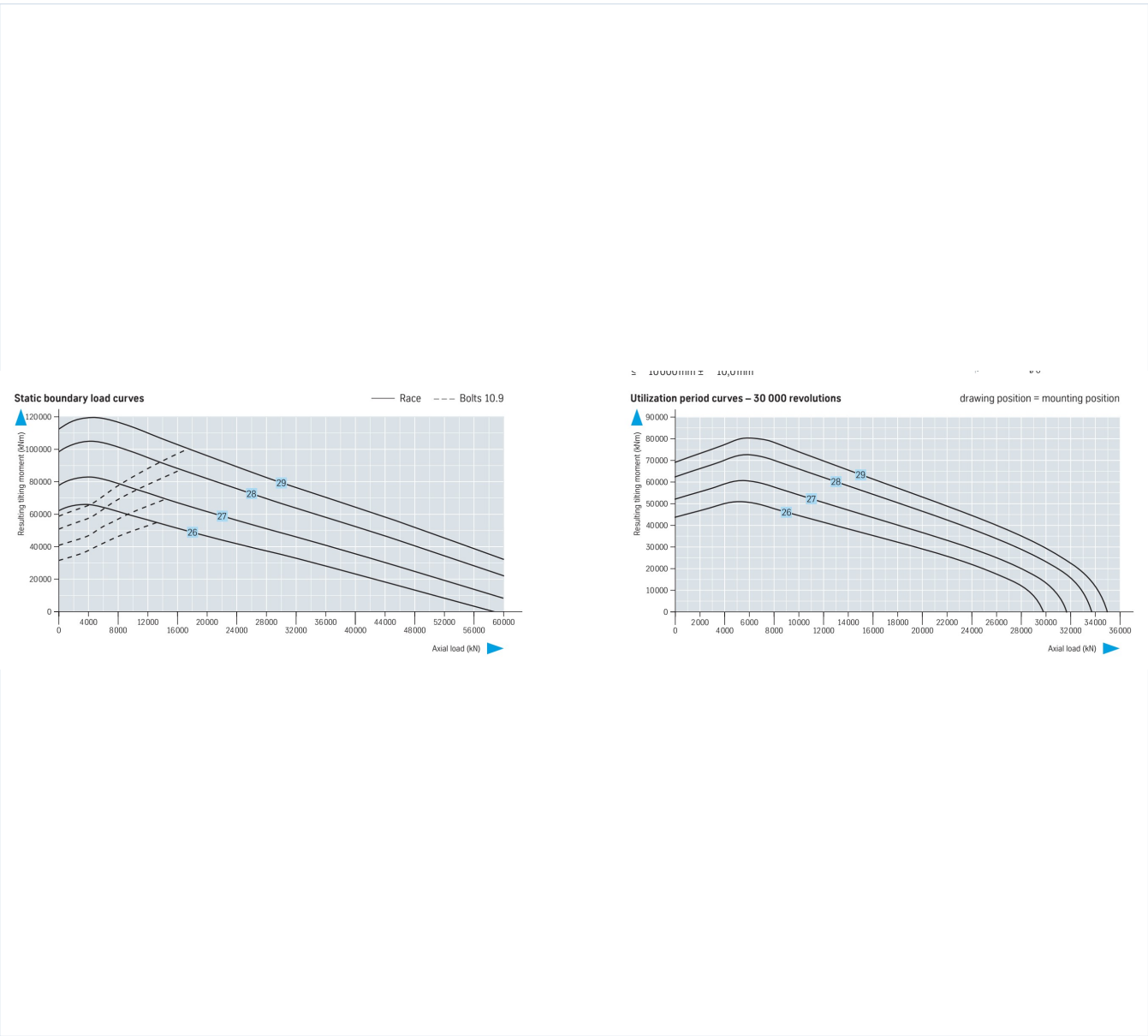
# Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| PUBLISHED TECHNICAL MEDIA |                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------|
| Load Curve Chart          | page-106-load-curves.png   SHA-256:<br>9960f6076aef85729403e2cad588123ba7da3446413f19e756b6bc7e4e50f123 |
| Outline Drawing           | page-106-outline.png   SHA-256:<br>ad0e900339c1e9b6d101a05817bde85c95059d9cc3fd91962cc615ba566bfcbc     |

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-106-load-curves.png | SHA-256: 9960f6076aef85729403e2cad588123ba7da3446413f19e756b6bc7e4e50f123

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>PGGSMHA4R3UXPMKWZC4PT2HCGA</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 106   Printed page 206-207</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/products/slewing-bearing-replacements/rothe-erde/192-50-5000-990-41-1501/>

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