

Factory-Verified Replacement

MERYDOM 061.20.1094.500.01.1503

Certified for interchange with Rothe Erde 061.20.1094.500.01.1503. 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

061.20.1094.500.01.1503

SERIES

06 Series

OVERALL OD

1,198.4 mm

OVERALL HEIGHT

56 mm

REFERENCE

Rothe Erde 061.20.1094.500.01.1503

STRUCTURE

Single-row four-point contact ball

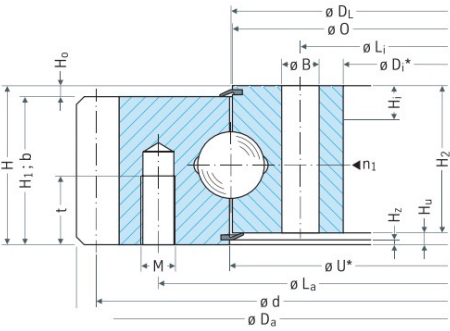
OVERALL ID

1,022 mm

GEAR

External gear

Published Technical Drawing



page-062-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                        | 061.20.1094.500.01.1503                |
| Certified interchangeable with       | Rothe Erde 061.20.1094.500.01.1503     |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | DAE6MZDOCKQLWRLUMEEVTYVQSS             |
| 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                      | 061.20.1094.500.01.1503                |
| Bearing structure                    | Single-row four-point contact ball     |
| Gear arrangement                     | External gear                          |
| DIMENSION                            |                                        |
| Raceway diameter (DL)                | 1,094 mm                               |
| Overall outside diameter (Da)        | 1,198.4 mm                             |
| Overall inside diameter (Di)         | 1,022 mm                               |

## Complete Product Data

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| DIMENSION (CONTINUED)               |            |
|-------------------------------------|------------|
| Overall height (H)                  | 56 mm      |
| Catalog diameter O (O)              | 1,092.5 mm |
| Catalog diameter U (U)              | 1,095.5 mm |
| Ring height H1 (H1)                 | 45.5 mm    |
| Ring height H2 (H2)                 | 45.5 mm    |
| Lower ring offset Hu (Hu)           | 10.5 mm    |
| Upper ring offset Ho (Ho)           | 10.5 mm    |
| Assembly weight (Weight)            | 91 kg      |
| Axial bearing play (Y_axial)        | 0,30 mm    |
| Radial bearing play (Y_radial)      | 0,26 mm    |
| MOUNTING                            |            |
| Outer ring bolt circle (La)         | 1,135 mm   |
| Inner ring bolt circle (Li)         | 1,048 mm   |
| La/Li mounting-hole count (n_La_Li) | 44/48      |
| Common mounting-hole diameter (B)   | 13.5 mm    |
| Metric bolt nominal size (M)        | 12 mm      |
| Thread depth (t)                    | 20 mm      |
| GEAR                                |            |
| Gear pitch diameter (d)             | 1,184 mm   |
| Gear module (m)                     | 8 mm       |

Complete Product Data

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| GEAR (CONTINUED)                                 |                                                               |
|--------------------------------------------------|---------------------------------------------------------------|
| Gear tooth count (z)                             | 148                                                           |
| Tip-height modification product<br>k m (k*m)     | -0.8 mm                                                       |
| Minimum gear face width (bmin)                   | 45.5 mm                                                       |
| PERFORMANCE                                      |                                                               |
| Permitted circumferential<br>force, normal (X1)  | 18.93 kN                                                      |
| Permitted circumferential<br>force, maximum (X2) | 37.86 kN                                                      |
| PERFORMANCE RATINGS                              |                                                               |
| Catalog Reference X1                             | 18.93 kN   Not simultaneous with other listed dynamic ratings |
| Catalog Reference X2                             | 37.86 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                              |                                                               |
| Outer ring mounting                              | 44 holes - M 12                                               |
| Inner ring mounting                              | 48 holes - B 13,5                                             |
| GEAR INTERFACE                                   |                                                               |
| Pitch system                                     | module                                                        |
| Module reference                                 | 8 mm                                                          |
| Number of teeth                                  | 148                                                           |
| SOURCE TRACEABILITY                              |                                                               |
| Source document code                             | ROTHE_ERDE_CATALOG_2023                                       |
| Source file                                      | Rothe Erde.pdf                                                |
| PDF page                                         | 62                                                            |

Complete Product Data

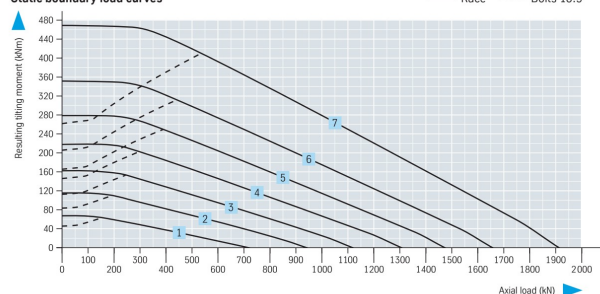
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| SOURCE TRACEABILITY (CONTINUED) |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Printed page                    | 118-119                                                                                                 |
| Source language                 | EN                                                                                                      |
| Original unit system            | Metric                                                                                                  |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                         |
| Load Curve Chart                | page-062-load-curves.png   SHA-256:<br>8c87a771525798b661ea2401e191b7cee117163d23c146e3ad13b613a461e391 |
| Outline Drawing                 | page-062-outline.png   SHA-256:<br>85790c01496712c074be580055919e51eed200c2fab86f23511ae238e6c35410     |

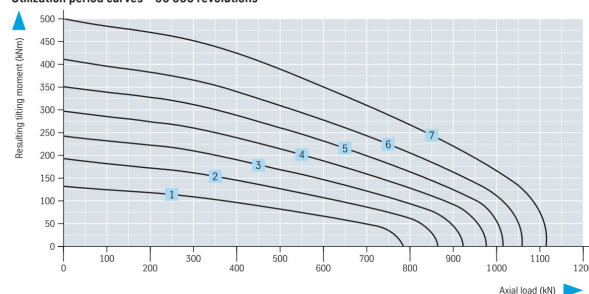
## Published Load / Performance Chart

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.

Static boundary load curves



Utilization period curves – 30 000 revolutions



page-062-load-curves.png | SHA-256: 8c87a771525798b661ea2401e191b7cee117163d23c146e3ad13b613a461e391

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>DAE6MZDOCKQLWRLUMEEVTYVQSS</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 62   Printed page 118-119</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/061-20-1094-500-01-1503/>

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