

## Factory-Verified Replacement

**MERYDOM 061.25.1055.500.11.1503**

Certified for interchange with Rothe Erde  
061.25.1055.500.11.1503. 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

**061.25.1055.500.11.1503**

## REFERENCE

**Rothe Erde 061.25.1055.500.11.1503**

## SERIES

## 06 Series

## STRUCTURE

**Tek s ral d rt nokta temasl bilyal**

## OVERALL OD

**1,198 mm**

## OVERALL ID

**955 mm**

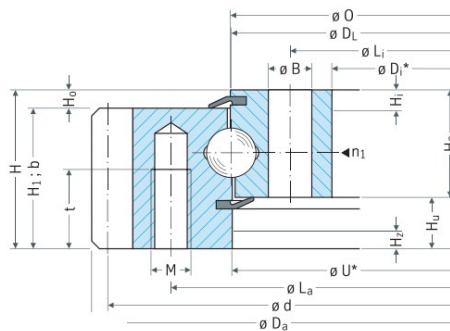
### OVERALL HEIGHT

**80 mm**

## GEAR

**D    tan di li**

## Published Technical Drawing



page-068-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                        | 061.25.1055.500.11.1503                |
| Certified interchangeable with       | Rothe Erde 061.25.1055.500.11.1503     |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | QXMJP3DWHOQHDXB2ABJQLZIS4D             |
| 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                      | 061.25.1055.500.11.1503                |
| Bearing structure                    | Tek s ral d rt nokta temasl bilyal     |
| Gear arrangement                     | D tan di li                            |
| DIMENSION                            |                                        |
| Raceway diameter (DL)                | 1 055 mm                               |
| Overall outside diameter (Da)        | 1 198 mm                               |
| Overall inside diameter (Di)         | 955 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)                      | 80 mm          |
| Catalog diameter O (O)                  | 1 056 mm       |
| Catalog diameter U (U)                  | 1 054 mm       |
| Ring height H1 (H1)                     | 71 mm          |
| Ring height H2 (H2)                     | 54 mm          |
| Lower ring offset Hu (Hu)               | 26 mm          |
| Upper ring offset Ho (Ho)               | 9 mm           |
| Centering spigot diameter Da* (Da_star) | 957 + 0,23 mm  |
| Centering spigot diameter U* (U_star)   | 1055 + 0,26 mm |
| Assembly weight (Weight)                | 172 kg         |
| Axial bearing play (Y_axial)            | 0,30 mm        |
| Radial bearing play (Y_radial)          | 0,25 mm        |
| MOUNTING                                |                |
| Outer ring bolt circle (La)             | 1 116 mm       |
| Inner ring bolt circle (Li)             | 995 mm         |
| Common mounting-hole count (n)          | 30             |
| Common mounting-hole diameter (B)       | 22 mm          |
| Metric bolt nominal size (M)            | 20 mm          |
| Thread depth (t)                        | 40 mm          |
| GEAR                                    |                |

Complete Product Data

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| GEAR (CONTINUED)                                  |                                                              |
|---------------------------------------------------|--------------------------------------------------------------|
| Gear pitch diameter (d)                           | 1 180 mm                                                     |
| Gear module (m)                                   | 10 mm                                                        |
| Gear tooth count (z)                              | 118                                                          |
| Tip-height modification product $k_m (k \cdot m)$ | -1 mm                                                        |
| Minimum gear face width (bmin)                    | 70 mm                                                        |
| PERFORMANCE                                       |                                                              |
| Permitted circumferential force, normal (X1)      | 36,4 kN                                                      |
| Permitted circumferential force, maximum (X2)     | 72,8 kN                                                      |
| MISCELLANEOUS                                     |                                                              |
| Grease nipple count (n1)                          | 6                                                            |
| PERFORMANCE RATINGS                               |                                                              |
| Catalog Reference X1                              | 36,4 kN   Not simultaneous with other listed dynamic ratings |
| Catalog Reference X2                              | 72,8 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                               |                                                              |
| Outer ring mounting                               | 30 holes - M 20                                              |
| Inner ring mounting                               | 30 holes - B 22                                              |
| GEAR INTERFACE                                    |                                                              |
| Pitch system                                      | module                                                       |
| Module reference                                  | 10 mm                                                        |
| Number of teeth                                   | 118                                                          |

Complete Product Data

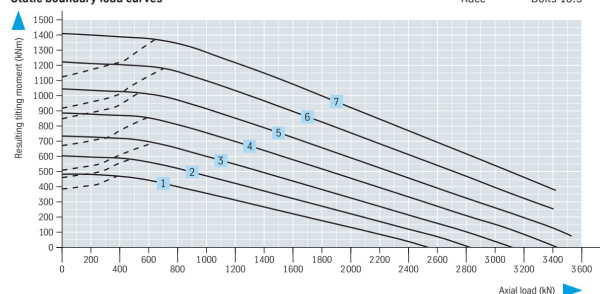
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| SOURCE TRACEABILITY       |                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------|
| Source document code      | ROTHE_ERDE_CATALOG_2023                                                                                 |
| Source file               | Rothe Erde.pdf                                                                                          |
| PDF page                  | 68                                                                                                      |
| Printed page              | 130-131                                                                                                 |
| Source language           | EN                                                                                                      |
| Original unit system      | Metric                                                                                                  |
| PUBLISHED TECHNICAL MEDIA |                                                                                                         |
| Load Curve Chart          | page-068-load-curves.png   SHA-256:<br>9c2ef91cbb44fc6306dabdc808a99a5e0a4cfc063e3382be3ea2f590f15d455c |
| Outline Drawing           | page-068-outline.png   SHA-256:<br>d821f14e954bd04a79f290747e4483e18896087acaf01b679bce713172e1b941     |

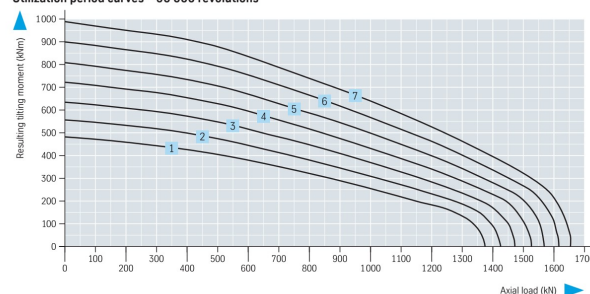
## Published Load / Performance Chart

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-068-load-curves.png | SHA-256: 9c2ef91cbb44fc6306dabdc808a99a5e0a4cfc063e3382be3ea2f590f15d455c

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>QXMJP3DWHOQHDXB2ABJQLZIS4D</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 68   Printed page 130-131</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

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Product page: <https://rotnex.com/tr/urunler/muadil-doner-tabla-rulmanlari/rothe-erde/061-25-1055-500-11-1503/>

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