

Factory-Verified Replacement

MERYDOM 062.25.1255.500.11.1503

Certified for interchange with Rothe Erde 062.25.1255.500.11.1503. 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

062.25.1255.500.11.1503

SERIES

06 Series

OVERALL OD

1,355 mm

OVERALL HEIGHT

80 mm

REFERENCE

Rothe Erde 062.25.1255.500.11.1503

STRUCTURE

Esferas de contato de quatro pontos de uma carreira

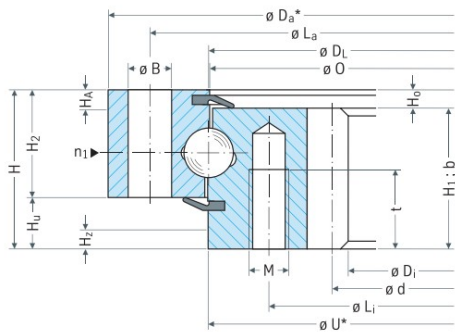
OVERALL ID

1,110 mm

GEAR

Engrenagem interna

Published Technical Drawing



page-069-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                        | 062.25.1255.500.11.1503                             |
| Certified interchangeable with       | Rothe Erde 062.25.1255.500.11.1503                  |
| Verification status                  | Level 3 - MERYDOM Engineering Verified              |
| Reviewed by                          | MERYDOM Engineering Department                      |
| Public record UID                    | OPN3UVITMWLUHUSFJA6QC2ZQS7                          |
| 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                      | 062.25.1255.500.11.1503                             |
| Bearing structure                    | Esferas de contato de quatro pontos de uma carreira |
| Gear arrangement                     | Engrenagem interna                                  |
| DIMENSION                            |                                                     |
| Raceway diameter (DL)                | 1.255 mm                                            |
| Overall outside diameter (Da)        | 1.355 mm                                            |
| Overall inside diameter (Di)         | 1.110 mm                                            |

## Complete Product Data

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| DIMENSION (CONTINUED)                      |                |
|--------------------------------------------|----------------|
| Overall height (H)                         | 80 mm          |
| Catalog diameter O (O)                     | 1.254 mm       |
| Catalog diameter U (U)                     | 1.256 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*<br>(Da_star) | 1353 - 0,31 mm |
| Centering spigot diameter U*<br>(U_star)   | 1255 - 0,31 mm |
| Assembly weight (Weight)                   | 198 kg         |
| Axial bearing play (Y_axial)               | 0,36 mm        |
| Radial bearing play (Y_radial)             | 0,30 mm        |
| MOUNTING                                   |                |
| Outer ring bolt circle (La)                | 1.315 mm       |
| Inner ring bolt circle (Li)                | 1.194 mm       |
| Common mounting-hole count (n)             | 42             |
| Common mounting-hole diameter<br>(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)                       | 1.130 mm                                                      |
| Gear module (m)                               | 10 mm                                                         |
| Gear tooth count (z)                          | 113                                                           |
| Minimum gear face width (bmin)                | 70 mm                                                         |
| PERFORMANCE                                   |                                                               |
| Permitted circumferential force, normal (X1)  | 39,18 kN                                                      |
| Permitted circumferential force, maximum (X2) | 78,36 kN                                                      |
| MISCELLANEOUS                                 |                                                               |
| Grease nipple count (n1)                      | 6                                                             |
| PERFORMANCE RATINGS                           |                                                               |
| Catalog Reference X1                          | 39,18 kN   Not simultaneous with other listed dynamic ratings |
| Catalog Reference X2                          | 78,36 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                           |                                                               |
| Outer ring mounting                           | 42 holes - B 22                                               |
| Inner ring mounting                           | 42 holes - M 20                                               |
| GEAR INTERFACE                                |                                                               |
| Pitch system                                  | module                                                        |
| Module reference                              | 10 mm                                                         |
| Number of teeth                               | 113                                                           |
| SOURCE TRACEABILITY                           |                                                               |
| Source document code                          | ROTHE_ERDE_CATALOG_2023                                       |

Complete Product Data

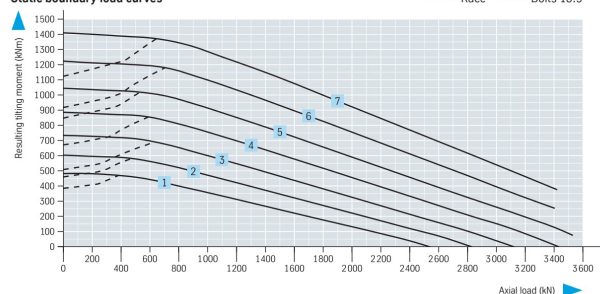
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| SOURCE TRACEABILITY (CONTINUED) |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Source file                     | Rothe Erde.pdf                                                                                          |
| PDF page                        | 69                                                                                                      |
| Printed page                    | 132-133                                                                                                 |
| Source language                 | EN                                                                                                      |
| Original unit system            | Metric                                                                                                  |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                         |
| Load Curve Chart                | page-069-load-curves.png   SHA-256:<br>3dc6f4d074021f5be5f0f9abaf6444b6578f10e808aea4273fe8b481e8441d9e |
| Outline Drawing                 | page-069-outline.png   SHA-256:<br>90389bd083c4bf8e51d10e01fa2ee5c9deffb6cfc1a1978527e4a327d1344ba1     |

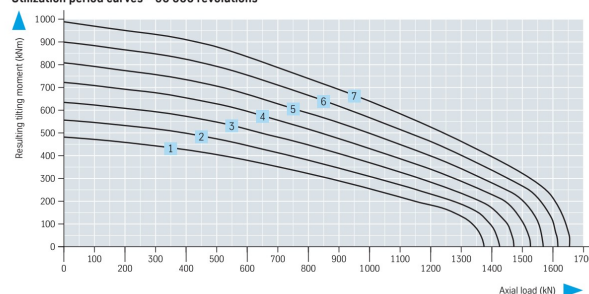
## Published Load / Performance Chart

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-069-load-curves.png | SHA-256: 3dc6f4d074021f5be5f0f9abaf6444b6578f10e808aea4273fe8b481e8441d9e

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

## Source and Verification Traceability

**PUBLIC RECORD UID****OPN3UVITMWLUHUSFJA6QC2ZQS7****SOURCE DOCUMENT****ROTHERDE\_CATALOG\_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 69 | Printed page 132-133****VERIFICATION****Level 3 - MERYDOM Engineering  
Verified****REVIEWED BY****MERYDOM Engineering Department**

## 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/pt/produtos/rolamentos-de-giro-de-substituicao/rothe-erde/062-25-1255-500-11-1503/>

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