

Factory-Verified Replacement

MERYDOM 061.25.0980.891.21.1503

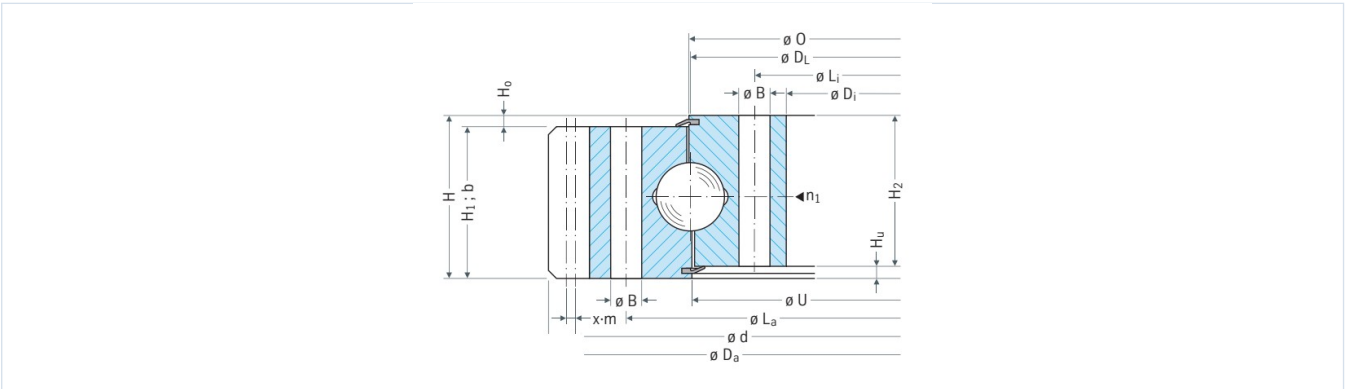
Certified for interchange with Rothe Erde 061.25.0980.891.21.1503. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

**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           | REFERENCE                                      |
| 061.25.0980.891.21.1503 | Rothe Erde 061.25.0980.891.21.1503             |
| SERIES                  | STRUCTURE                                      |
| 06 Series               | Sfere a quattro punti di contatto a una corona |
| OVERALL OD              | OVERALL ID                                     |
| 1,110.4 mm              | 887 mm                                         |
| OVERALL HEIGHT          | GEAR                                           |
| 63 mm                   | Dentatura esterna                              |

Published Technical Drawing



page-075-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                        | 061.25.0980.891.21.1503                        |
| Certified interchangeable with       | Rothe Erde 061.25.0980.891.21.1503             |
| Verification status                  | Level 3 - MERYDOM Engineering Verified         |
| Reviewed by                          | MERYDOM Engineering Department                 |
| Public record UID                    | N6QVYEAK4X7AJVZLZ3VXB5HF2P                     |
| 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                      | 061.25.0980.891.21.1503                        |
| Bearing structure                    | Sfere a quattro punti di contatto a una corona |
| Gear arrangement                     | Dentatura esterna                              |
| DIMENSION                            |                                                |
| Raceway diameter (DL)                | 980 mm                                         |
| Overall outside diameter (Da)        | 1.110,4 mm                                     |
| Overall inside diameter (Di)         | 887 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)                        | 63 mm    |
| Catalog diameter O (O)                    | 981 mm   |
| Catalog diameter U (U)                    | 979 mm   |
| Ring height H1 (H1)                       | 54 mm    |
| Ring height H2 (H2)                       | 54 mm    |
| Lower ring offset Hu (Hu)                 | 9 mm     |
| Upper ring offset Ho (Ho)                 | 9 mm     |
| Assembly weight (Weight)                  | 124 kg   |
| MOUNTING                                  |          |
| Outer ring bolt circle (La)               | 1.039 mm |
| Inner ring bolt circle (Li)               | 922 mm   |
| Common mounting-hole count (n)            | 30       |
| Common mounting-hole diameter (B)         | 17,5 mm  |
| Metric bolt nominal size (M)              | 16 mm    |
| GEAR                                      |          |
| Gear pitch diameter (d)                   | 1.088 mm |
| Gear module (m)                           | 8 mm     |
| Gear tooth count (z)                      | 136      |
| Profile shift product x m (x*m)           | 4 mm     |
| Tip-height modification product k m (k*m) | -0,8 mm  |

Complete Product Data

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|                                               |                                                               |
|-----------------------------------------------|---------------------------------------------------------------|
| GEAR (CONTINUED)                              |                                                               |
| Minimum gear face width (bmin)                | 53 mm                                                         |
| PERFORMANCE                                   |                                                               |
| Permitted circumferential force, normal (X1)  | 40,97 kN                                                      |
| Permitted circumferential force, maximum (X2) | 81,93 kN                                                      |
| MISCELLANEOUS                                 |                                                               |
| Grease nipple count (n1)                      | 5                                                             |
| PERFORMANCE RATINGS                           |                                                               |
| Catalog Reference X1                          | 40,97 kN   Not simultaneous with other listed dynamic ratings |
| Catalog Reference X2                          | 81,93 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                           |                                                               |
| Outer ring mounting                           | 30 holes - M 16                                               |
| Inner ring mounting                           | 30 holes - B 17,5                                             |
| GEAR INTERFACE                                |                                                               |
| Pitch system                                  | module                                                        |
| Module reference                              | 8 mm                                                          |
| Number of teeth                               | 136                                                           |
| SOURCE TRACEABILITY                           |                                                               |
| Source document code                          | ROTHERDE_CATALOG_2023                                         |
| Source file                                   | Rothe Erde.pdf                                                |
| PDF page                                      | 75                                                            |
| Printed page                                  | 144-145                                                       |

Complete Product Data

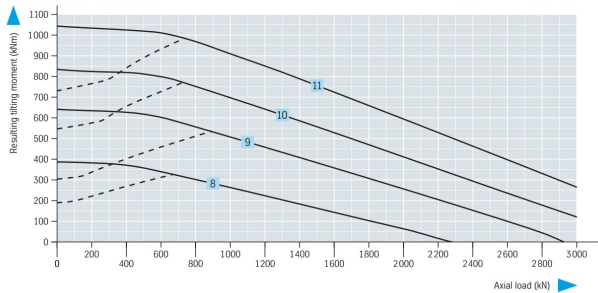
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| SOURCE TRACEABILITY (CONTINUED) |                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------|
| Source language                 | EN                                                                                                          |
| Original unit system            | Metric                                                                                                      |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                             |
| Load Curve Chart                | page-075-load-curves.png   SHA-256:<br>d14005686bb4c20771a0690f958bc35821cff30ef8f2885b792dd5642b<br>bc7e21 |
| Outline Drawing                 | page-075-outline.png   SHA-256:<br>b0f781850d2bd40b880c1f0862ab92c39ef72ba9c414eec87c10b6cb87<br>6b4512     |

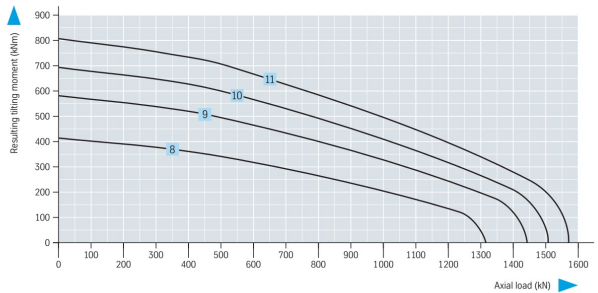
Published Load / Performance Chart

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-075-load-curves.png | SHA-256: d14005686bb4c20771a0690f958bc35821cff30ef8f2885b792dd5642bbc7e21

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****N6QVYEAK4X7AJVZLZ3VXB5HF2P****SOURCE DOCUMENT****ROTHE\_ERDE\_CATALOG\_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 75 | Printed page 144-145****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 | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page:

<https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/rothe-erde/061-25-0980-891-21-1503/>

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