

Factory-Verified Replacement

MERYDOM 062.30.1120.001.21.1504

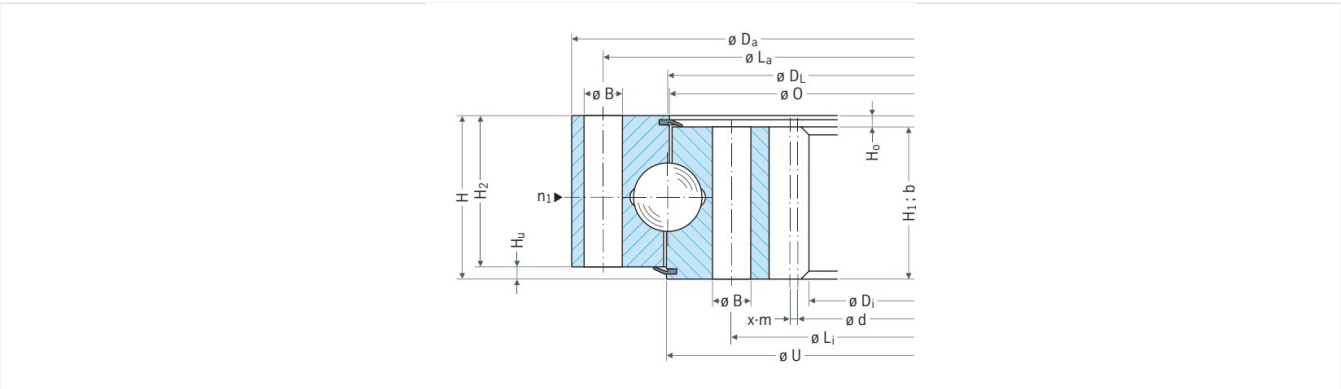
Certified for interchange with Rothe Erde 062.30.1120.001.21.1504. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

**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                                      |
| 062.30.1120.001.21.1504 | Rothe Erde 062.30.1120.001.21.1504             |
| SERIES                  | STRUCTURE                                      |
| 06 Series               | Sfere a quattro punti di contatto a una corona |
| OVERALL OD              | OVERALL ID                                     |
| 1,232 mm                | 960 mm                                         |
| OVERALL HEIGHT          | GEAR                                           |
| 79 mm                   | Dentatura interna                              |

Published Technical Drawing



page-082-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                        | 062.30.1120.001.21.1504                        |
| Certified interchangeable with       | Rothe Erde 062.30.1120.001.21.1504             |
| Verification status                  | Level 3 - MERYDOM Engineering Verified         |
| Reviewed by                          | MERYDOM Engineering Department                 |
| Public record UID                    | ZEHKWE2MYT3BVGJJIBGUS5MVI                      |
| 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                      | 062.30.1120.001.21.1504                        |
| Bearing structure                    | Sfere a quattro punti di contatto a una corona |
| Gear arrangement                     | Dentatura interna                              |
| DIMENSION                            |                                                |
| Raceway diameter (DL)                | 1.120 mm                                       |
| Overall outside diameter (Da)        | 1.232 mm                                       |
| Overall inside diameter (Di)         | 960 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)                | 79 mm    |
| Catalog diameter O (O)            | 1.118 mm |
| Catalog diameter U (U)            | 1.121 mm |
| Ring height H1 (H1)               | 70 mm    |
| Ring height H2 (H2)               | 63 mm    |
| Lower ring offset Hu (Hu)         | 16 mm    |
| Upper ring offset Ho (Ho)         | 9 mm     |
| Assembly weight (Weight)          | 206 kg   |
| MOUNTING                          |          |
| Outer ring bolt circle (La)       | 1.188 mm |
| Inner ring bolt circle (Li)       | 1.052 mm |
| Common mounting-hole count (n)    | 36       |
| Common mounting-hole diameter (B) | 22 mm    |
| Metric bolt nominal size (M)      | 20 mm    |
| GEAR                              |          |
| Gear pitch diameter (d)           | 970 mm   |
| Gear module (m)                   | 10 mm    |
| Gear tooth count (z)              | 97       |
| Profile shift product x m (x*m)   | -5 mm    |
| Minimum gear face width (bmin)    | 69 mm    |

Complete Product Data

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| PERFORMANCE                                   |                                                                |
|-----------------------------------------------|----------------------------------------------------------------|
| Permitted circumferential force, normal (X1)  | 66,66 kN                                                       |
| Permitted circumferential force, maximum (X2) | 133,33 kN                                                      |
| MISCELLANEOUS                                 |                                                                |
| Grease nipple count (n1)                      | 6                                                              |
| PERFORMANCE RATINGS                           |                                                                |
| Catalog Reference X1                          | 66,66 kN   Not simultaneous with other listed dynamic ratings  |
| Catalog Reference X2                          | 133,33 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                           |                                                                |
| Outer ring mounting                           | 36 holes - B 22                                                |
| Inner ring mounting                           | 36 holes - M 20                                                |
| GEAR INTERFACE                                |                                                                |
| Pitch system                                  | module                                                         |
| Module reference                              | 10 mm                                                          |
| Number of teeth                               | 97                                                             |
| SOURCE TRACEABILITY                           |                                                                |
| Source document code                          | ROTHE_ERDE_CATALOG_2023                                        |
| Source file                                   | Rothe Erde.pdf                                                 |
| PDF page                                      | 82                                                             |
| Printed page                                  | 158-159                                                        |
| Source language                               | EN                                                             |
| Original unit system                          | Metric                                                         |

# Complete Product Data

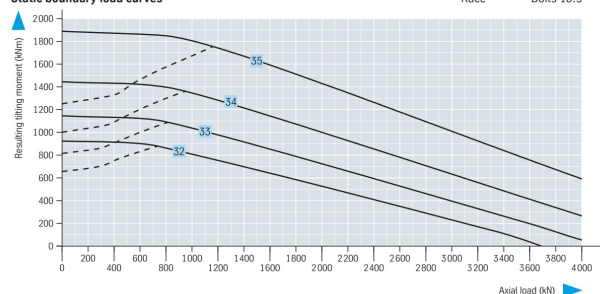
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

| PUBLISHED TECHNICAL MEDIA |                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------|
| Load Curve Chart          | page-082-load-curves.png   SHA-256:<br>8049cc755bf33efa8071f18ae6c1bd164b055ce1adef92d4f8083ec674a99475 |
| Outline Drawing           | page-082-outline.png   SHA-256:<br>77680d2d39e251c34653a71ba28a8e4313963324f564029655b05e8f35643d6c     |

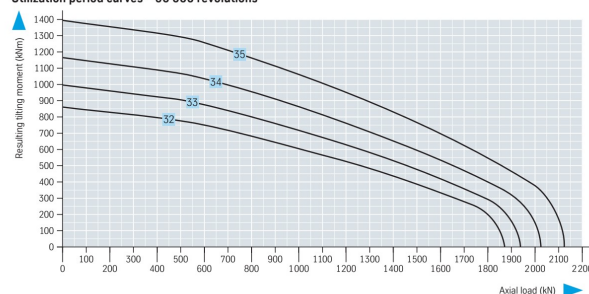
## Published Load / Performance Chart

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-082-load-curves.png | SHA-256: 8049cc755bf33efa8071f18ae6c1bd164b055ce1adef92d4f8083ec674a99475

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****ZEHKWE2MYT3BVGJJIQBGUS5MVI****SOURCE DOCUMENT****ROTHE\_ERDE\_CATALOG\_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 82 | Printed page 158-159****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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/rothe-erde/062-30-1120-001-21-1504/>

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