

## Factory-Verified Replacement

**MERYDOM 46-0644-00**

Certified for interchange with ROLLIX 46-0644-00. 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

**46-0644-00**

## REFERENCE

**ROLLIX 46-0644-00**

## SERIES

## 46 Series

## STRUCTURE

### Precision roller bearing

OVERALL OD

742 mm

OVERALL ID

**572 mm**

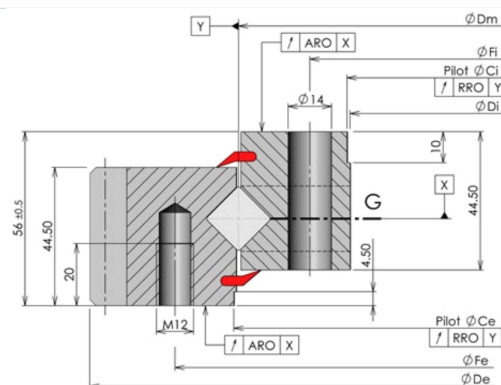
### OVERALL HEIGHT

**56 mm**

## GEAR

### External gear

## Published Technical Drawing



rollix-page-120-drawing.webp

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                        | 46-0644-00                             |
| Certified interchangeable with       | ROLLIX 46-0644-00                      |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | X47YFRNERLXNR4SCGLJ5XURJST             |
| MATERIALS                            |                                        |
| Configurable ring material options   | 42CrMo / 50Mn                          |
| Seal material                        | NBR - Nitrile rubber                   |
| Configurable spacer material options | Engineering nylon / Brass              |
| IDENTIFICATION                       |                                        |
| Reference brand                      | ROLLIX                                 |
| Reference series                     | 46 Series                              |
| Reference model                      | 46-0644-00                             |
| Bearing structure                    | Precision roller bearing               |
| Gear arrangement                     | External gear                          |
| DIMENSION                            |                                        |
| Overall outside diameter (Dia De)    | 742 mm                                 |
| Overall inside diameter (Dia Di)     | 572 mm                                 |
| Overall height (HT)                  | 56 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)                |         |
|--------------------------------------|---------|
| Outer ring height (He)               | 44 mm   |
| Inner ring height (Hi)               | 44 mm   |
| Assembly weight (Weight)             | 52 kg   |
| MOUNTING                             |         |
| Outer ring pilot diameter (Dia Ce)   | 647 mm  |
| Inner ring pilot diameter (Dia Ci)   | 574 mm  |
| Outer ring pilot height (Hce)        | 10 mm   |
| Inner ring pilot height (Hci)        | 10 mm   |
| Outer ring bolt circle (Fe)          | 685 mm  |
| Outer ring mounting-hole count (Ne*) | 32      |
| Inner ring bolt circle (Fi)          | 598 mm  |
| Inner ring mounting-hole count (Ni*) | 36      |
| GEAR                                 |         |
| Gear module (Module)                 | 6 mm    |
| Gear tooth count (Number of teeth)   | 122     |
| Gear run-out (Gear run-out)          | 0.12 mm |
| PERFORMANCE                          |         |
| Outer ring axial run-out (BE (ARO))  | 50 um   |
| Inner ring axial run-out (BI (ARO))  | 50 um   |
| Outer ring radial run-out (BE (RRO)) | 80 um   |

Complete Product Data

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| PERFORMANCE (CONTINUED)                                    |                                                             |
|------------------------------------------------------------|-------------------------------------------------------------|
| Inner ring radial run-out (BI (RRO))                       | 70 um                                                       |
| Maximum unloaded starting torque (Maximum starting torque) | 80 Nm                                                       |
| Maximum allowable rotation speed (Maximum allowable speed) | 54 rpm                                                      |
| Static gear resistance (Static Gear Resistance)            | 40 kN                                                       |
| PERFORMANCE RATINGS                                        |                                                             |
| Rating Starting Torque Max                                 | 80 Nm   Not simultaneous with other listed dynamic ratings  |
| Axial Runout Outer                                         | 50 um   Not simultaneous with other listed dynamic ratings  |
| Axial Runout Inner                                         | 50 um   Not simultaneous with other listed dynamic ratings  |
| Rating Speed Max                                           | 54 rpm   Not simultaneous with other listed dynamic ratings |
| Radial Runout Outer                                        | 80 um   Not simultaneous with other listed dynamic ratings  |
| Radial Runout Inner                                        | 70 um   Not simultaneous with other listed dynamic ratings  |
| Rating Gear Static Resistance                              | 40 kN   Not simultaneous with other listed dynamic ratings  |
| MOUNTING INTERFACES                                        |                                                             |
| Outer ring mounting                                        | 32 holes - See source drawing                               |
| Inner ring mounting                                        | 36 holes - Hci 10 mm                                        |
| GEAR INTERFACE                                             |                                                             |
| Pitch system                                               | module                                                      |
| Module reference                                           | 6 mm                                                        |
| Number of teeth                                            | 122                                                         |
| SOURCE TRACEABILITY                                        |                                                             |

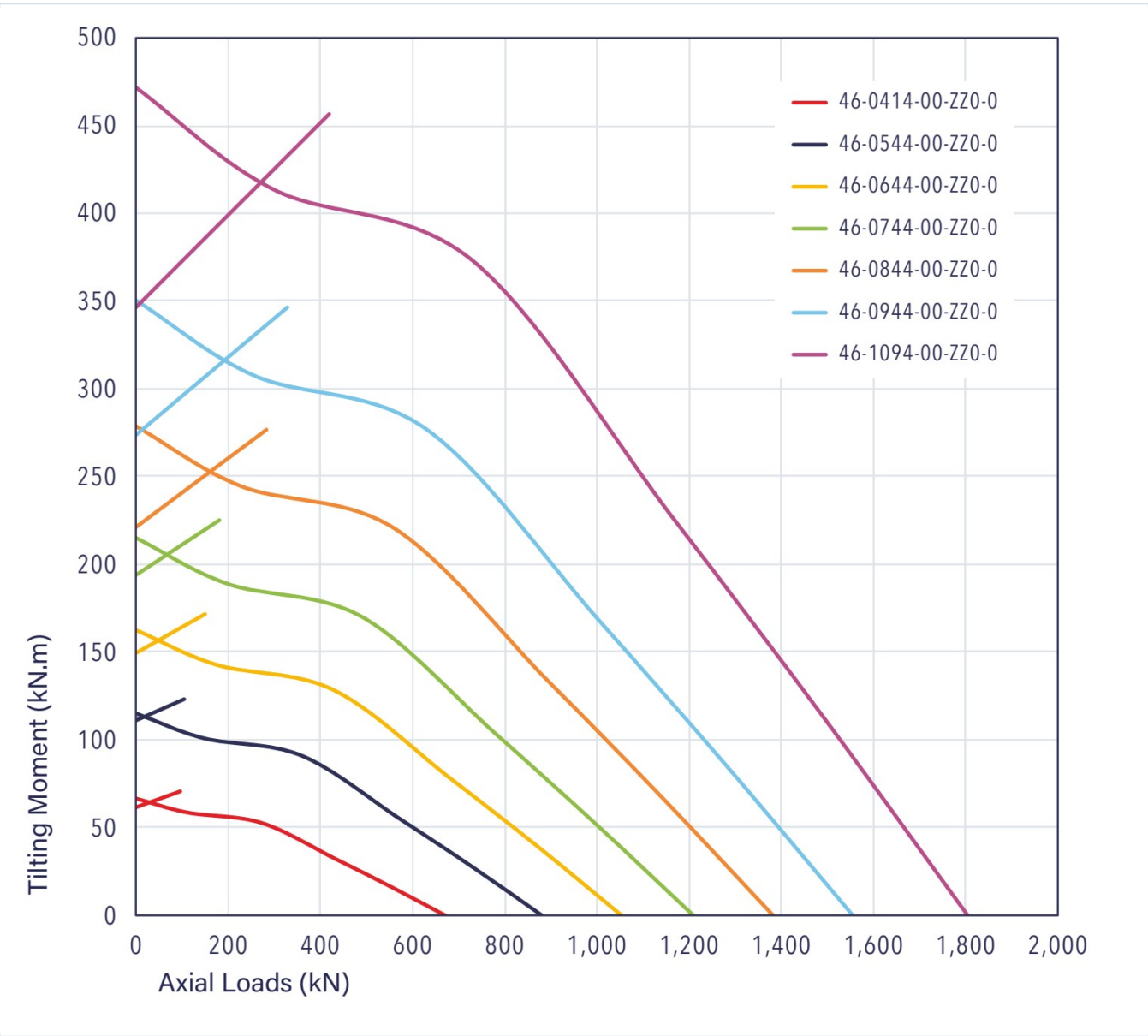
# Complete Product Data

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 document code            | ROLLIX-CATALOGUE-SLEWING-RINGS-2024-07                                                                      |
| Source file                     | ROLLIX.pdf                                                                                                  |
| PDF page                        | 120                                                                                                         |
| Printed page                    | 120                                                                                                         |
| Source language                 | EN                                                                                                          |
| Original unit system            | Metric                                                                                                      |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                             |
| Load Curve Chart                | rollix-page-120-curve.webp   SHA-256:<br>8db3c72c4d15922ba22691da5940bde446bb831dd20545f70889fbe8d4f5f9e2   |
| Outline Drawing                 | rollix-page-120-drawing.webp   SHA-256:<br>63c4c31735402a19635e964df03a84764c8d8e4cfc2e4426d19fd397071f5224 |

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.



rollix-page-120-curve.webp | SHA-256: 8db3c72c4d15922ba22691da5940bde446bb831dd20545f70889fbe8d4f5f9e2

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>X47YFRNERLXNR4SCGLJ5XURJST</div>            | <div>SOURCE DOCUMENT</div> <div>ROLLIX-CATALOGUE-SLEWING-RINGS-2024-07</div> |
| <div>SOURCE FILE</div> <div>ROLLIX.pdf</div>                                  | <div>SOURCE LOCATION</div> <div>PDF page 120   Printed page 120</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/rollix/46-0644-00/>

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