

Factory-Verified Replacement

MERYDOM 01-3031-00

Certified for interchange with ROLLIX 01-3031-00. 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

01-3031-00

REFERENCE

ROLLIX 01-3031-00

SERIES

01 Series

STRUCTURE

Single-row four-point contact ball

OVERALL OD

3,198 mm

OVERALL ID

2,914 mm

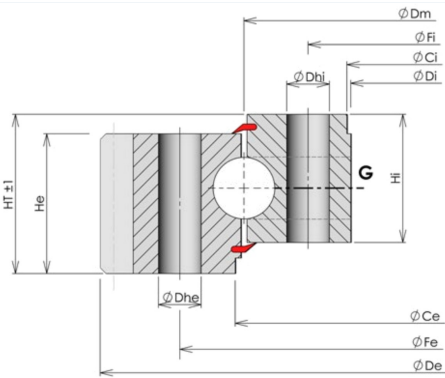
OVERALL HEIGHT

90 mm

GEAR

External gear

Published Technical Drawing



rollix-page-070-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                        | 01-3031-00                             |
| Certified interchangeable with       | ROLLIX 01-3031-00                      |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | 5UUNMKOUTQMIRI7VJ5PN5ZBJTB             |
| 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                     | 01 Series                              |
| Reference model                      | 01-3031-00                             |
| Bearing structure                    | Single-row four-point contact ball     |
| Gear arrangement                     | External gear                          |
| DIMENSION                            |                                        |
| Overall height (HT)                  | 90 mm                                  |
| Overall outside diameter (Dia De)    | 3,198 mm                               |
| Outer ring height (He)               | 77 mm                                  |

# Complete Product Data

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| DIMENSION (CONTINUED)                                |          |
|------------------------------------------------------|----------|
| Overall inside diameter (Dia Di)                     | 2,914 mm |
| Inner ring height (Hi)                               | 77 mm    |
| Assembly weight (Weight)                             | 719 kg   |
| MOUNTING                                             |          |
| Outer ring pilot diameter (Dia Ce)                   | 3,029 mm |
| Inner ring pilot diameter (Dia Ci)                   | 3,032 mm |
| Outer ring hole type (External ring hole type)       | Th       |
| Outer ring bolt circle (Dia Fe)                      | 3,104 mm |
| Outer ring mounting-hole count (Ne)                  | 48       |
| Outer ring mounting-hole specification (Dhe)         | 22 mm    |
| Inner ring hole type (Inner ring hole type)          | Th       |
| Inner ring bolt circle (Dia Fi)                      | 2,958 mm |
| Inner ring mounting-hole count (Ni)                  | 48       |
| Inner ring mounting-hole specification (Dhi)         | 22 mm    |
| GEAR                                                 |          |
| Gear module (Module)                                 | 10 mm    |
| Gear tooth count (Z)                                 | 318      |
| Gear face width (W)                                  | 77 mm    |
| PERFORMANCE                                          |          |
| Gear capacity, unhardened (Gear capacity unhardened) | 120 kN   |

Complete Product Data

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| PERFORMANCE (CONTINUED)                             |                                                             |
|-----------------------------------------------------|-------------------------------------------------------------|
| Gear capacity, hardened (Gear capacity hardened)    | 159 kN                                                      |
| MISCELLANEOUS                                       |                                                             |
| Ring with greasing holes (Ring with greasing holes) | I                                                           |
| Greasing hole type (Greasing hole type)             | R                                                           |
| PERFORMANCE RATINGS                                 |                                                             |
| Rating Gear Capacity Hardened                       | 159 kN   Not simultaneous with other listed dynamic ratings |
| Rating Gear Capacity Unhardened                     | 120 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                                 |                                                             |
| Outer ring mounting                                 | 48 holes - External ring hole type Th; Dhe 22 mm            |
| Inner ring mounting                                 | 48 holes - Inner ring hole type Th; Dhi 22 mm               |
| GEAR INTERFACE                                      |                                                             |
| Pitch system                                        | module                                                      |
| Module reference                                    | 10 mm                                                       |
| Number of teeth                                     | 318                                                         |
| SOURCE TRACEABILITY                                 |                                                             |
| Source document code                                | ROLLIX-CATALOGUE-SLEWING-RINGS-2024-07                      |
| Source file                                         | ROLLIX.pdf                                                  |
| PDF page                                            | 70                                                          |
| Printed page                                        | 70                                                          |
| Source language                                     | EN                                                          |

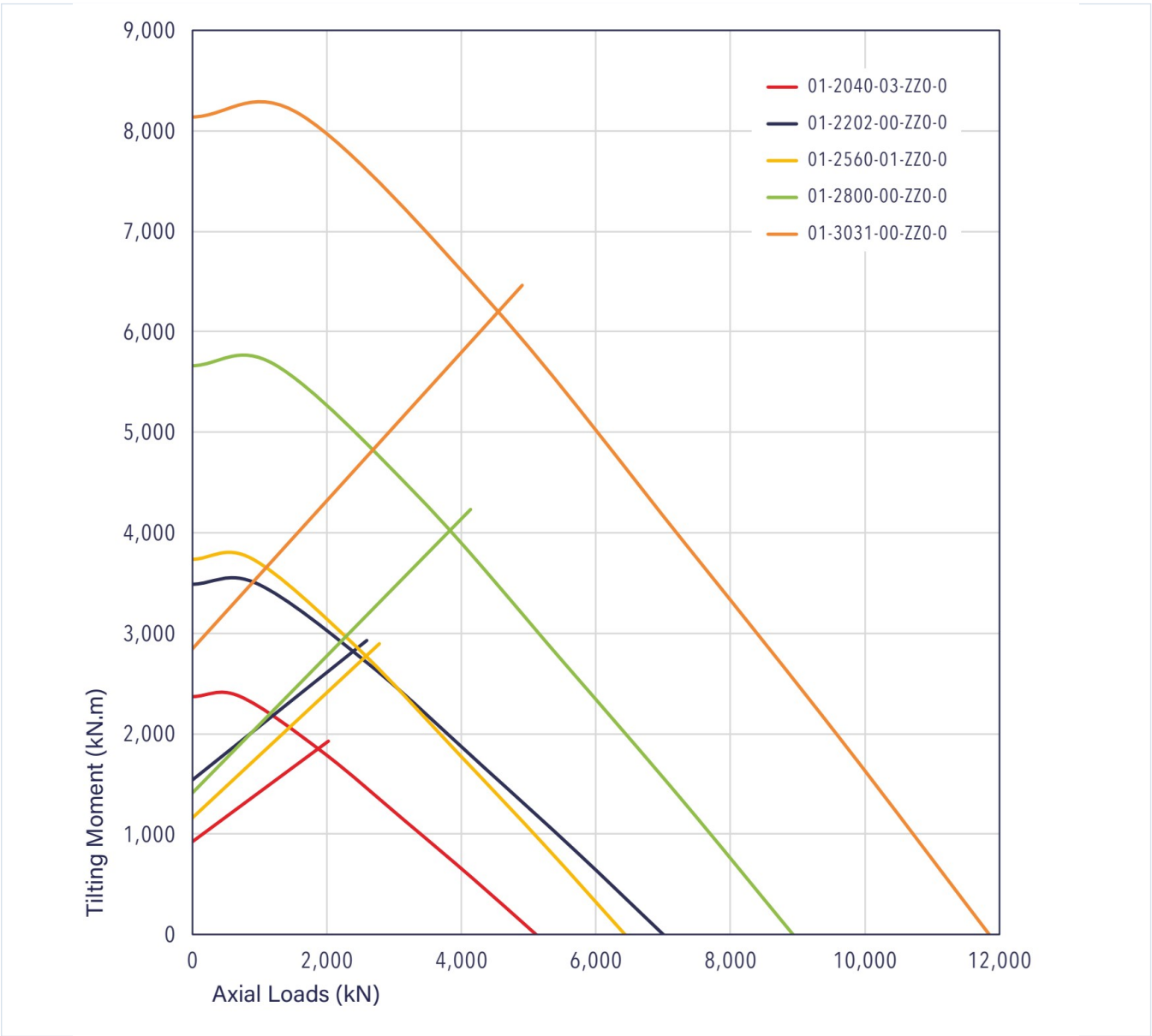
Complete Product Data

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| SOURCE TRACEABILITY (CONTINUED) |                                                                                                             |
|---------------------------------|-------------------------------------------------------------------------------------------------------------|
| Original unit system            | Metric                                                                                                      |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                             |
| Load Curve Chart                | rollix-page-070-curve.webp   SHA-256:<br>9a461265c4c76b611413845556731bba9d8e9a7ac6eead2912e0b0862fa56a19   |
| Outline Drawing                 | rollix-page-070-drawing.webp   SHA-256:<br>3d6f0cbf07fbf535b531eb1dd278984759e3c4235b90ed51a2da613082d71ac5 |

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-070-curve.webp | SHA-256: 9a461265c4c76b611413845556731bba9d8e9a7ac6eead2912e0b0862fa56a19

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>5UUNMKOUTQMIRI7VJ5PN5ZBJTB</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 70   Printed page 70</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/01-3031-00/>

Trademark and legal notice: referenced brand and model names are used only for identification and cross-reference. MERYDOM is an independent manufacturer and is not affiliated with or endorsed by the referenced brand unless expressly stated.