

Factory-Verified Replacement

MERYDOM 16334001

Certified for interchange with Kaydon 16334001. 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

16334001

REFERENCE

Kaydon 16334001

SERIES

XR Series

STRUCTURE

Cross roller

OVERALL OD

2,895.6 mm

OVERALL ID

2,413 mm

OVERALL HEIGHT

152.4 mm

GEAR

Internal gear

No public model drawing is attached to this record. Submit the application and required interface format for final drawing confirmation.

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                        | 16334001                                              |
| Certified interchangeable with       | Kaydon 16334001                                       |
| Verification status                  | Level 3 - MERYDOM Engineering Verified                |
| Reviewed by                          | MERYDOM Engineering Department                        |
| Public record UID                    | 63TLTB7GBEKP2TRLU3B3SJIUIL                            |
| MATERIALS                            |                                                       |
| Configurable ring material options   | 42CrMo / 50Mn                                         |
| Seal material                        | NBR - Nitrile rubber                                  |
| Configurable spacer material options | Engineering nylon / Brass                             |
| IDENTIFICATION                       |                                                       |
| Reference brand                      | Kaydon                                                |
| Reference series                     | XR Series                                             |
| Reference model                      | 16334001                                              |
| Bearing structure                    | Cross roller                                          |
| Gear arrangement                     | Internal gear                                         |
| DIMENSION                            |                                                       |
| Overall outside diameter (Do)        | 114.000 in   Metric reference: approximately 2,896 mm |
| Overall inside diameter (di)         | 95.000 in   Metric reference: approximately 2,413 mm  |
| Inner ring body ID (dr)              | 97.500 in   Metric reference: approximately 2,477 mm  |

Complete Product Data

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| DIMENSION (CONTINUED)        |                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Overall height (H)           | 6.000 in   Metric reference: approximately 152 mm                                                                                                           |
| Assembly weight (G)          | 4250 lb   Metric reference: approximately 1,927.768 kg                                                                                                      |
| MOUNTING                     |                                                                                                                                                             |
| Outer ring bolt circle (Lo)  | 111.000 in   Metric reference: approximately 2,819 mm                                                                                                       |
| Inner ring bolt circle (Li)  | 100.000 in   Metric reference: approximately 2,540 mm                                                                                                       |
| GEAR                         |                                                                                                                                                             |
| Gear pitch diameter (D2)     | 96.000 in   Metric reference: approximately 2,438 mm                                                                                                        |
| Diametral pitch (Pd)         | 2                                                                                                                                                           |
| Gear tooth count (z2)        | 192                                                                                                                                                         |
| PERFORMANCE                  |                                                                                                                                                             |
| Maximum gear tooth load (Fz) | 54550 lbf   Metric reference: approximately 242.65 kN                                                                                                       |
| Moment load rating (Crm)     | 2389570 ft lbf   Metric reference: approximately 3,239.82 kN m                                                                                              |
| PERFORMANCE RATINGS          |                                                                                                                                                             |
| Moment                       | 2389570.0000000000 ft lbf   Metric reference: approximately 3,239.82 kN m                                                                                   |
| Gear Tooth                   | 54550.0000000000 lbf   Metric reference: approximately 242.65 kN                                                                                            |
| Dynamic Radial               | 500930.0000000000 lbf   Metric reference: approximately 2,228.25 kN   L10: 1,000,000 revolutions   Not simultaneous with other listed dynamic ratings       |
| Dynamic Thrust               | 563230.0000000000 lbf   Metric reference: approximately 2,505.37 kN   L10: 1,000,000 revolutions   Not simultaneous with other listed dynamic ratings       |
| Dynamic Moment               | 2389570.0000000000 ft lbf   Metric reference: approximately 3,239.82 kN m   L10: 1,000,000 revolutions   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES          |                                                                                                                                                             |

## 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.

| MOUNTING INTERFACES (CONTINUED) |                        |
|---------------------------------|------------------------|
| Outer ring mounting             | 48 holes - 1.063       |
| Inner ring mounting             | 48 holes - 1-8         |
| GEAR INTERFACE                  |                        |
| Pitch system                    | DP                     |
| Diametral pitch                 | 2 DP                   |
| Module reference                | 12.7 mm                |
| Number of teeth                 | 192                    |
| SOURCE TRACEABILITY             |                        |
| Source document code            | KAYDON-CAT390          |
| Source file                     | Kaydon_Catalog_390.pdf |
| PDF page                        | 100                    |
| Printed page                    | 98                     |
| Source language                 | EN-US                  |
| Original unit system            | Inch                   |

Source and Verification Traceability

|                                                                               |                                                                      |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>63TLTB7GBEKP2TRLU3B3SJIUIL</div>            | <div>SOURCE DOCUMENT</div> <div>KAYDON-CAT390</div>                  |
| <div>SOURCE FILE</div> <div>Kaydon_Catalog_390.pdf</div>                      | <div>SOURCE LOCATION</div> <div>PDF page 100   Printed page 98</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/kaydon/16334001/>

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