

Factory-Verified Replacement

MERYDOM 16347001

Certified for interchange with Kaydon 16347001. 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

16347001

REFERENCE

Kaydon 16347001

SERIES

XR Series

STRUCTURE

Cross roller

OVERALL OD

2,556.942 mm

OVERALL ID

2,133.6 mm

OVERALL HEIGHT

165.1 mm

GEAR

External 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                        | 16347001                                                 |
| Certified interchangeable with       | Kaydon 16347001                                          |
| Verification status                  | Level 3 - MERYDOM Engineering Verified                   |
| Reviewed by                          | MERYDOM Engineering Department                           |
| Public record UID                    | SZPPQAW4W366I4ZP6DTYGDHWOP                               |
| 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                      | 16347001                                                 |
| Bearing structure                    | Cross roller                                             |
| Gear arrangement                     | External gear                                            |
| DIMENSION                            |                                                          |
| Overall outside diameter (Do)        | 100.667 in   Metric reference: approximately 2,556.94 mm |
| Overall inside diameter (di)         | 84.000 in   Metric reference: approximately 2,134 mm     |
| Outer ring body OD (Dr)              | 98.750 in   Metric reference: approximately 2,508.3 mm   |

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| DIMENSION (CONTINUED)        |                                                                                                                                                             |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inner ring body ID (dr)      | 84.250 in   Metric reference: approximately 2,140 mm                                                                                                        |
| Overall height (H)           | 6.500 in   Metric reference: approximately 165 mm                                                                                                           |
| Assembly weight (G)          | 3240 lb   Metric reference: approximately 1,469.639 kg                                                                                                      |
| MOUNTING                     |                                                                                                                                                             |
| Outer ring bolt circle (Lo)  | 95.000 in   Metric reference: approximately 2,413 mm                                                                                                        |
| Inner ring bolt circle (Li)  | 87.000 in   Metric reference: approximately 2,210 mm                                                                                                        |
| GEAR                         |                                                                                                                                                             |
| Gear pitch diameter (D2)     | 100.000 in   Metric reference: approximately 2,540 mm                                                                                                       |
| Diametral pitch (Pd)         | 3                                                                                                                                                           |
| Gear tooth count (z2)        | 300                                                                                                                                                         |
| PERFORMANCE                  |                                                                                                                                                             |
| Maximum gear tooth load (Fz) | 32030 lbf   Metric reference: approximately 142.48 kN                                                                                                       |
| Moment load rating (Crm)     | 1557670 ft lbf   Metric reference: approximately 2,111.92 kN m                                                                                              |
| PERFORMANCE RATINGS          |                                                                                                                                                             |
| Moment                       | 1557670.0000000000 ft lbf   Metric reference: approximately 2,111.92 kN m                                                                                   |
| Gear Tooth                   | 32030.0000000000 lbf   Metric reference: approximately 142.48 kN                                                                                            |
| Dynamic Radial               | 376230.0000000000 lbf   Metric reference: approximately 1,673.55 kN   L10: 1,000,000 revolutions   Not simultaneous with other listed dynamic ratings       |
| Dynamic Thrust               | 422960.0000000000 lbf   Metric reference: approximately 1,881.42 kN   L10: 1,000,000 revolutions   Not simultaneous with other listed dynamic ratings       |
| Dynamic Moment               | 1557670.0000000000 ft lbf   Metric reference: approximately 2,111.92 kN m   L10: 1,000,000 revolutions   Not simultaneous with other listed dynamic ratings |

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| MOUNTING INTERFACES  |                        |
|----------------------|------------------------|
| Outer ring mounting  | 48 holes - 1-8         |
| Inner ring mounting  | 48 holes - 1.063       |
| GEAR INTERFACE       |                        |
| Pitch system         | DP                     |
| Diametral pitch      | 3 DP                   |
| Module reference     | 8.466667 mm            |
| Number of teeth      | 300                    |
| SOURCE TRACEABILITY  |                        |
| Source document code | KAYDON-CAT390          |
| Source file          | Kaydon_Catalog_390.pdf |
| PDF page             | 102                    |
| Printed page         | 100                    |
| Source language      | EN-US                  |
| Original unit system | Inch                   |

Source and Verification Traceability

|                                                                               |                                                                       |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>SZPPQAW4W366I4ZP6DTYGDHWOP</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 102   Printed page 100</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/16347001/>

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.