

Factory-Verified Replacement

MERYDOM 16351001

Certified for interchange with Kaydon 16351001. 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

16351001

REFERENCE

Kaydon 16351001

SERIES

TR Series

STRUCTURE

Three-row roller

OVERALL OD

1,962.15 mm

OVERALL ID

1,520.952 mm

OVERALL HEIGHT

191.77 mm

GEAR

Ungeared

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                        | 16351001                                                |
| Certified interchangeable with       | Kaydon 16351001                                         |
| Verification status                  | Level 3 - MERYDOM Engineering Verified                  |
| Reviewed by                          | MERYDOM Engineering Department                          |
| Public record UID                    | YPSAQV2FBSYPXCV6Z5NCJCZONT                              |
| 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                     | TR Series                                               |
| Reference model                      | 16351001                                                |
| Bearing structure                    | Three-row roller                                        |
| Gear arrangement                     | Ungeared                                                |
| DIMENSION                            |                                                         |
| Overall outside diameter (Do)        | 77.250 in   Metric reference: approximately 1,962.2 mm  |
| Overall inside diameter (di)         | 59.880 in   Metric reference: approximately 1,521 mm    |
| Outer ring body OD (Dr)              | 77.125 in   Metric reference: approximately 1,958.98 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 inner diameter (Di) | 69.410 in   Metric reference: approximately 1,763 mm                      |
| Inner ring outer diameter (do) | 70.420 in   Metric reference: approximately 1,788.7 mm                    |
| Inner ring body ID (dr)        | 60.000 in   Metric reference: approximately 1,524 mm                      |
| Overall height (H)             | 7.550 in   Metric reference: approximately 191.8 mm                       |
| Assembly weight (G)            | 3400 lb   Metric reference: approximately 1,542.214 kg                    |
| MOUNTING                       |                                                                           |
| Outer ring bolt circle (Lo)    | 74.500 in   Metric reference: approximately 1,892 mm                      |
| Inner ring bolt circle (Li)    | 62.500 in   Metric reference: approximately 1,588 mm                      |
| PERFORMANCE                    |                                                                           |
| Moment load rating (Crm)       | 2332400 ft lbf   Metric reference: approximately 3,162.31 kN m            |
| PERFORMANCE RATINGS            |                                                                           |
| Moment                         | 2332400.0000000000 ft lbf   Metric reference: approximately 3,162.31 kN m |
| MOUNTING INTERFACES            |                                                                           |
| Outer ring mounting            | 44 holes - 1.250                                                          |
| Inner ring mounting            | 44 holes - 1.250                                                          |
| GEAR INTERFACE                 |                                                                           |
| Integral gear                  | Not applicable - ungeared bearing                                         |
| SOURCE TRACEABILITY            |                                                                           |
| Source document code           | KAYDON-CAT390                                                             |
| Source file                    | Kaydon_Catalog_390.pdf                                                    |
| PDF page                       | 106                                                                       |

# 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) |       |
|---------------------------------|-------|
| Printed page                    | 104   |
| Source language                 | EN-US |
| Original unit system            | Inch  |

Source and Verification Traceability

|                                                                               |                                                                       |
|-------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>YPSAQV2FBSYPXCV6Z5NCJCZONT</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 106   Printed page 104</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

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/kaydon/16351001/>

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