

Factory-Verified Replacement

MERYDOM 16272001

Certified for interchange with Kaydon 16272001. 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

16272001

REFERENCE

Kaydon 16272001

SERIES

DT Series

STRUCTURE

Esferas de contato de oito pontos

OVERALL OD

3,652.52 mm

OVERALL ID

2,895.6 mm

OVERALL HEIGHT

280.975 mm

GEAR

Engrenagem externa

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                        | 16272001                                                |
| Certified interchangeable with       | Kaydon 16272001                                         |
| Verification status                  | Level 3 - MERYDOM Engineering Verified                  |
| Reviewed by                          | MERYDOM Engineering Department                          |
| Public record UID                    | ME66RPVTN3EIPRR5L4R2I67XP3                              |
| 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                     | DT Series                                               |
| Reference model                      | 16272001                                                |
| Bearing structure                    | Esferas de contato de oito pontos                       |
| Gear arrangement                     | Engrenagem externa                                      |
| DIMENSION                            |                                                         |
| Overall outside diameter (Do)        | 143.800 in   Metric reference: aproximadamente 3.653 mm |
| Overall inside diameter (di)         | 114.000 in   Metric reference: aproximadamente 2.896 mm |
| Outer ring body OD (Dr)              | 143.800 in   Metric reference: aproximadamente 3.653 mm |

Complete Product Data

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| DIMENSION (CONTINUED)        |                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------|
| Overall height (H)           | 11.062 in   Metric reference: aproximadamente 280,97 mm                           |
| Assembly weight (G)          | 14980 lb   Metric reference: aproximadamente 6.794,814 kg                         |
| MOUNTING                     |                                                                                   |
| Outer ring bolt circle (Lo)  | 136.625 in   Metric reference: aproximadamente 3.470,28 mm                        |
| Inner ring bolt circle (Li)  | 121.375 in   Metric reference: aproximadamente 3.082,93 mm                        |
| GEAR                         |                                                                                   |
| Gear pitch diameter (D2)     | 143.000 in   Metric reference: aproximadamente 3.632 mm                           |
| Diametral pitch (Pd)         | 2                                                                                 |
| Gear tooth count (z2)        | 286                                                                               |
| PERFORMANCE                  |                                                                                   |
| Maximum gear tooth load (Fz) | 85120 lbf   Metric reference: aproximadamente 378,63 kN                           |
| Moment load rating (Crm)     | 18293300 ft · lbf   Metric reference: aproximadamente 24.802,38 kN · m            |
| PERFORMANCE RATINGS          |                                                                                   |
| Moment                       | 18293300.0000000000 ft · lbf   Metric reference: aproximadamente 24.802,38 kN · m |
| Gear Tooth                   | 85120.0000000000 lbf   Metric reference: aproximadamente 378,63 kN                |
| MOUNTING INTERFACES          |                                                                                   |
| Outer ring mounting          | 72 holes - 2.156                                                                  |
| Inner ring mounting          | 72 holes - 2.156                                                                  |
| GEAR INTERFACE               |                                                                                   |
| Pitch system                 | DP                                                                                |
| Diametral pitch              | 2 DP                                                                              |

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.

| GEAR INTERFACE (CONTINUED) |                        |
|----------------------------|------------------------|
| Module reference           | 12.7 mm                |
| Number of teeth            | 286                    |
| SOURCE TRACEABILITY        |                        |
| Source document code       | KAYDON-CAT390          |
| Source file                | Kaydon_Catalog_390.pdf |
| PDF page                   | 92                     |
| Printed page               | 90                     |
| Source language            | EN-US                  |
| Original unit system       | Inch                   |

Source and Verification Traceability

|                                                                               |                                                                     |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>ME66RPVTN3EIPRR5L4R2I67XP3</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 92   Printed page 90</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/pt/produtos/rolamentos-de-giro-de-substituicao/kaydon/16272001/>

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