

Factory-Verified Replacement

MERYDOM 16283001

Certified for interchange with Kaydon 16283001. 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

16283001

REFERENCE

Kaydon 16283001

SERIES

DT Series

STRUCTURE

Sfere a contatto su otto punti

OVERALL OD

755.65 mm

OVERALL ID

472.948 mm

OVERALL HEIGHT

177.8 mm

GEAR

Senza dentatura

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                        | 16283001                                     |
| Certified interchangeable with       | Kaydon 16283001                              |
| Verification status                  | Level 3 - MERYDOM Engineering Verified       |
| Reviewed by                          | MERYDOM Engineering Department               |
| Public record UID                    | XKXJYH675GQXSALURUQ5L5WBOG                   |
| 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                      | 16283001                                     |
| Bearing structure                    | Sfere a contatto su otto punti               |
| Gear arrangement                     | Senza dentatura                              |
| DIMENSION                            |                                              |
| Overall outside diameter (Do)        | 29.750 in   Metric reference: circa 755,7 mm |
| Overall inside diameter (di)         | 18.620 in   Metric reference: circa 472,9 mm |
| Overall height (H)                   | 7.000 in   Metric reference: circa 178 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)       |                                                               |
|-----------------------------|---------------------------------------------------------------|
| Assembly weight (G)         | 645 lb   Metric reference: circa 292,567 kg                   |
| MOUNTING                    |                                                               |
| Outer ring bolt circle (Lo) | 27.875 in   Metric reference: circa 708,03 mm                 |
| Inner ring bolt circle (Li) | 20.375 in   Metric reference: circa 517,53 mm                 |
| PERFORMANCE                 |                                                               |
| Moment load rating (Crm)    | 363100 ft lbf   Metric reference: circa 492,3 kN m            |
| PERFORMANCE RATINGS         |                                                               |
| Moment                      | 363100.0000000000 ft lbf   Metric reference: circa 492,3 kN m |
| MOUNTING INTERFACES         |                                                               |
| Outer ring mounting         | 34 holes - 0.813                                              |
| Inner ring mounting         | 32 holes - 0.813                                              |
| GEAR INTERFACE              |                                                               |
| Integral gear               | Not applicable - ungeared bearing                             |
| SOURCE TRACEABILITY         |                                                               |
| Source document code        | KAYDON-CAT390                                                 |
| Source file                 | Kaydon_Catalog_390.pdf                                        |
| PDF page                    | 88                                                            |
| Printed page                | 86                                                            |
| Source language             | EN-US                                                         |
| Original unit system        | Inch                                                          |

Source and Verification Traceability

|                                                                               |                                                                     |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>XKXJYH675GQXSALURUQ5L5WBOG</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 88   Printed page 86</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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/kaydon/16283001/>

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.