

Factory-Verified Replacement

MERYDOM 16270001

Certified for interchange with Kaydon 16270001. 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  
16270001

REFERENCE  
Kaydon 16270001

SERIES  
DT Series

STRUCTURE  
Sfere a contatto su otto punti

OVERALL OD  
2,615.997 mm

OVERALL ID  
2,137.004 mm

OVERALL HEIGHT  
183.007 mm

GEAR  
Dentatura esterna

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                        | 16270001                                        |
| Certified interchangeable with       | Kaydon 16270001                                 |
| Verification status                  | Level 3 - MERYDOM Engineering Verified          |
| Reviewed by                          | MERYDOM Engineering Department                  |
| Public record UID                    | PEJEKBVLYV35PPAA5S2726SL3S                      |
| 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                      | 16270001                                        |
| Bearing structure                    | Sfere a contatto su otto punti                  |
| Gear arrangement                     | Dentatura esterna                               |
| DIMENSION                            |                                                 |
| Overall outside diameter (Do)        | 102.992 in   Metric reference: circa 2.616 mm   |
| Overall inside diameter (di)         | 84.134 in   Metric reference: circa 2.137 mm    |
| Outer ring body OD (Dr)              | 99.331 in   Metric reference: circa 2.523,01 mm |

Complete Product Data

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| DIMENSION (CONTINUED)        |                                                                   |
|------------------------------|-------------------------------------------------------------------|
| Overall height (H)           | 7.205 in   Metric reference: circa 183,01 mm                      |
| Assembly weight (G)          | 3970 lb   Metric reference: circa 1.800,762 kg                    |
| MOUNTING                     |                                                                   |
| Outer ring bolt circle (Lo)  | 95.906 in   Metric reference: circa 2.436,01 mm                   |
| Inner ring bolt circle (Li)  | 87.205 in   Metric reference: circa 2.215,01 mm                   |
| GEAR                         |                                                                   |
| Gear pitch diameter (D2)     | 100.787 in   Metric reference: circa 2.559,99 mm                  |
| Gear tooth count (z2)        | 128                                                               |
| PERFORMANCE                  |                                                                   |
| Maximum gear tooth load (Fz) | 92060 lbf   Metric reference: circa 409,5 kN                      |
| Moment load rating (Crm)     | 3658500 ft lbf   Metric reference: circa 4.960,26 kN m            |
| PERFORMANCE RATINGS          |                                                                   |
| Moment                       | 3658500.0000000000 ft lbf   Metric reference: circa 4.960,26 kN m |
| Gear Tooth                   | 92060.0000000000 lbf   Metric reference: circa 409,5 kN           |
| MOUNTING INTERFACES          |                                                                   |
| Outer ring mounting          | 64 holes - 1.299                                                  |
| Inner ring mounting          | 68 holes - 1.535                                                  |
| GEAR INTERFACE               |                                                                   |
| Pitch system                 | MODULE                                                            |
| Module reference             | 20 mm                                                             |
| Number of teeth              | 128                                                               |

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  |                        |
|----------------------|------------------------|
| 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>PEJEKBVLYV35PPAA5S2726SL3S</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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/kaydon/16270001/>

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