

Factory-Verified Replacement

MERYDOM 16273001

Certified for interchange with Kaydon 16273001. 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

16273001

REFERENCE

Kaydon 16273001

SERIES

DT Series

STRUCTURE

Sekiz nokta temaslı bilyalı

OVERALL OD

4,572 mm

OVERALL ID

3,810 mm

OVERALL HEIGHT

269.875 mm

GEAR

D tan di li

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                        | 16273001                                            |
| Certified interchangeable with       | Kaydon 16273001                                     |
| Verification status                  | Level 3 - MERYDOM Engineering Verified              |
| Reviewed by                          | MERYDOM Engineering Department                      |
| Public record UID                    | SSB35ZGT32663MUQSKEOEJRY5S                          |
| 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                      | 16273001                                            |
| Bearing structure                    | Sekiz nokta temasl  bilyal                          |
| Gear arrangement                     | D  tan di  li                                       |
| DIMENSION                            |                                                     |
| Overall outside diameter (Do)        | 180.000 in   Metric reference: yakla  k 4  572 mm   |
| Overall inside diameter (di)         | 150.000 in   Metric reference: yakla  k 3  810 mm   |
| Outer ring body OD (Dr)              | 175.250 in   Metric reference: yakla  k 4  451,4 mm |

Complete Product Data

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| DIMENSION (CONTINUED)        |                                                                       |
|------------------------------|-----------------------------------------------------------------------|
| Overall height (H)           | 10.625 in   Metric reference: yakla k 269,88 mm                       |
| Assembly weight (G)          | 22100 lb   Metric reference: yakla k 10 024,391 kg                    |
| MOUNTING                     |                                                                       |
| Outer ring bolt circle (Lo)  | 170.000 in   Metric reference: yakla k 4 318 mm                       |
| Inner ring bolt circle (Li)  | 156.250 in   Metric reference: yakla k 3 968,8 mm                     |
| GEAR                         |                                                                       |
| Gear pitch diameter (D2)     | 178.000 in   Metric reference: yakla k 4 521 mm                       |
| Diametral pitch (Pd)         | 1                                                                     |
| Gear tooth count (z2)        | 178                                                                   |
| PERFORMANCE                  |                                                                       |
| Maximum gear tooth load (Fz) | 129080 lbf   Metric reference: yakla k 574,18 kN                      |
| Moment load rating (Crm)     | 18000000 ft lbf   Metric reference: yakla k 24 404,72 kN m            |
| PERFORMANCE RATINGS          |                                                                       |
| Moment                       | 18000000.0000000000 ft lbf   Metric reference: yakla k 24 404,72 kN m |
| Gear Tooth                   | 129080.0000000000 lbf   Metric reference: yakla k 574,18 kN           |
| MOUNTING INTERFACES          |                                                                       |
| Outer ring mounting          | 80 holes - 1.875                                                      |
| Inner ring mounting          | 80 holes - 1.875                                                      |
| GEAR INTERFACE               |                                                                       |
| Pitch system                 | DP                                                                    |
| Diametral pitch              | 1 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           | 25.4 mm                |
| Number of teeth            | 178                    |
| 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>SSB35ZGT32663MUQSKEOEJRY5S</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/tr/urunler/muadil-doner-tabla-rulmanlari/kaydon/16273001/>

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