

Factory-Verified Replacement

MERYDOM MTE-540

Certified for interchange with Kaydon MTE-540. 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

MTE-540

REFERENCE

Kaydon MTE-540

SERIES

MT Series

STRUCTURE

Sfere a quattro punti di contatto

OVERALL OD

753.11 mm

OVERALL ID

539.75 mm

OVERALL HEIGHT

60.325 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                        | MTE-540                                      |
| Certified interchangeable with       | Kaydon MTE-540                               |
| Verification status                  | Level 3 - MERYDOM Engineering Verified       |
| Reviewed by                          | MERYDOM Engineering Department               |
| Public record UID                    | HKSPCQXSGSKF6X3NAUOXOUGRVY                   |
| 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                     | MT Series                                    |
| Reference model                      | MTE-540                                      |
| Bearing structure                    | Sfere a quattro punti di contatto            |
| Gear arrangement                     | Dentatura esterna                            |
| DIMENSION                            |                                              |
| Overall outside diameter (Do)        | 29.650 in   Metric reference: circa 753,1 mm |
| Overall inside diameter (di)         | 21.250 in   Metric reference: circa 539,8 mm |
| Overall height (H)                   | 2.375 in   Metric reference: circa 60,33 mm  |

Complete Product Data

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| DIMENSION (CONTINUED)        |                                                                |
|------------------------------|----------------------------------------------------------------|
| Assembly weight (G)          | 163 lb   Metric reference: circa 73,936 kg                     |
| MOUNTING                     |                                                                |
| Outer ring bolt circle (Lo)  | 27.250 in   Metric reference: circa 692,2 mm                   |
| Inner ring bolt circle (Li)  | 22.750 in   Metric reference: circa 577,9 mm                   |
| GEAR                         |                                                                |
| Gear pitch diameter (D2)     | 29.250 in   Metric reference: circa 743 mm                     |
| Diametral pitch (Pd)         | 4                                                              |
| Gear tooth count (z2)        | 117                                                            |
| PERFORMANCE                  |                                                                |
| Maximum gear tooth load (Fz) | 10520 lbf   Metric reference: circa 46,8 kN                    |
| Moment load rating (Crm)     | 232000 ft lbf   Metric reference: circa 314,55 kN m            |
| PERFORMANCE RATINGS          |                                                                |
| Moment                       | 232000.0000000000 ft lbf   Metric reference: circa 314,55 kN m |
| Gear Tooth                   | 10520.0000000000 lbf   Metric reference: circa 46,8 kN         |
| MOUNTING INTERFACES          |                                                                |
| Outer ring mounting          | 24 holes - 0.813                                               |
| Inner ring mounting          | 28 holes - 0.813                                               |
| GEAR INTERFACE               |                                                                |
| Pitch system                 | DP                                                             |
| Diametral pitch              | 4 DP                                                           |
| Module reference             | 6.35 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.

| GEAR INTERFACE (CONTINUED) |                        |
|----------------------------|------------------------|
| Number of teeth            | 117                    |
| SOURCE TRACEABILITY        |                        |
| Source document code       | KAYDON-CAT390          |
| Source file                | Kaydon_Catalog_390.pdf |
| PDF page                   | 68                     |
| Printed page               | 66                     |
| Source language            | EN-US                  |
| Original unit system       | Inch                   |

Source and Verification Traceability

|                                                                               |                                                                     |
|-------------------------------------------------------------------------------|---------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>HKSPCQXSGSKF6X3NAUOXOUGRVY</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 68   Printed page 66</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/mte-540/>

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