

Factory-Verified Replacement

MERYDOM MTE-415

Certified for interchange with Kaydon MTE-415. 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-415

REFERENCE

Kaydon MTE-415

SERIES

MT Series

STRUCTURE

Sfere a quattro punti di contatto

OVERALL OD

626.11 mm

OVERALL ID

412.75 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-415
Certified interchangeable with	Kaydon MTE-415
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	TVOJGKG7SPVSQ5DRSUEEXA474
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-415
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura esterna
DIMENSION	
Overall outside diameter (Do)	24.650 in Metric reference: circa 626,1 mm
Overall inside diameter (di)	16.250 in Metric reference: circa 412,8 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)	132 lb Metric reference: circa 59,874 kg
MOUNTING	
Outer ring bolt circle (Lo)	22.250 in Metric reference: circa 565,2 mm
Inner ring bolt circle (Li)	17.750 in Metric reference: circa 450,9 mm
GEAR	
Gear pitch diameter (D2)	24.250 in Metric reference: circa 616 mm
Diametral pitch (Pd)	4
Gear tooth count (z2)	97
PERFORMANCE	
Maximum gear tooth load (Fz)	10420 lbf Metric reference: circa 46,35 kN
Moment load rating (Crm)	159200 ft lbf Metric reference: circa 215,85 kN m
PERFORMANCE RATINGS	
Moment	159200.0000000000 ft lbf Metric reference: circa 215,85 kN m
Gear Tooth	10420.0000000000 lbf Metric reference: circa 46,35 kN
MOUNTING INTERFACES	
Outer ring mounting	16 holes - 0.813
Inner ring mounting	20 holes - 0.813
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	4 DP
Module reference	6.35 mm

Complete Product Data

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GEAR INTERFACE (CONTINUED)	
Number of teeth	97
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

PUBLIC RECORD UID TVOJGKG7SPVSQ5DRSUEDEXA474	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 68 Printed page 66
VERIFICATION Level 3 - MERYDOM Engineering Verified	REVIEWED BY MERYDOM Engineering Department

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-415/>

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.