

Factory-Verified Replacement

MERYDOM MTE-705T

Certified for interchange with Kaydon MTE-705T. 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-705T

REFERENCE

Kaydon MTE-705T

SERIES

MT Series

STRUCTURE

Four-point contact ball

OVERALL OD

970.305 mm

OVERALL ID

704.85 mm

OVERALL HEIGHT

73.025 mm

GEAR

External gear

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-705T
Certified interchangeable with	Kaydon MTE-705T
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	OIQ2DQBFZNDUTQG5OOGEXEKRIF
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-705T
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	38.201 in Metric reference: approximately 970.31 mm
Overall inside diameter (di)	27.750 in Metric reference: approximately 704.9 mm
Overall height (H)	2.875 in Metric reference: approximately 73.03 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Assembly weight (G)	325 lb Metric reference: approximately 147.418 kg
MOUNTING	
Outer ring bolt circle (Lo)	35.250 in Metric reference: approximately 895.4 mm
Inner ring bolt circle (Li)	29.50 in Metric reference: approximately 749 mm
GEAR	
Gear pitch diameter (D2)	37.667 in Metric reference: approximately 956.74 mm
Diametral pitch (Pd)	3
Gear tooth count (z2)	113
PERFORMANCE	
Maximum gear tooth load (Fz)	17390 lbf Metric reference: approximately 77.35 kN
Moment load rating (Crm)	443200 ft lbf Metric reference: approximately 600.9 kN m
PERFORMANCE RATINGS	
Moment	443200.0000000000 ft lbf Metric reference: approximately 600.9 kN m
Gear Tooth	17390.0000000000 lbf Metric reference: approximately 77.35 kN
MOUNTING INTERFACES	
Outer ring mounting	24 holes - 7/8-9
Inner ring mounting	28 holes - 7/8-9
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	3 DP
Module reference	8.466667 mm

Complete Product Data

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GEAR INTERFACE (CONTINUED)	
Number of teeth	113
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 OIQ2DQBFZNDUTQG5OOGEXEKRIF	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/products/slewing-bearing-replacements/kaydon/mte-705t/>

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