

Factory-Verified Replacement

MERYDOM MTO-143

Certified for interchange with Kaydon MTO-143. 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

MTO-143

REFERENCE

Kaydon MTO-143

SERIES

MT Series

STRUCTURE

Four-point contact ball

OVERALL OD

248.996 mm

OVERALL ID

143.002 mm

OVERALL HEIGHT

34.011 mm

GEAR

Ungeared

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	MTO-143
Certified interchangeable with	Kaydon MTO-143
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	SPRSGSHASFSWHIFAQLHFZAGNJ3
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	MTO-143
Bearing structure	Four-point contact ball
Gear arrangement	Ungearred
DIMENSION	
Overall outside diameter (Do)	9.803 in Metric reference: approximately 249 mm
Overall inside diameter (di)	5.630 in Metric reference: approximately 143 mm
Overall height (H)	1.339 in Metric reference: approximately 34.01 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.

DIMENSION (CONTINUED)	
Assembly weight (G)	15 lb Metric reference: approximately 6.804 kg
MOUNTING	
Outer ring bolt circle (Lo)	8.937 in Metric reference: approximately 227 mm
Inner ring bolt circle (Li)	6.496 in Metric reference: approximately 165 mm
PERFORMANCE	
Moment load rating (Crm)	8950 ft lbf Metric reference: approximately 12.13 kN m
PERFORMANCE RATINGS	
Moment	8950.0000000000 ft lbf Metric reference: approximately 12.13 kN m
MOUNTING INTERFACES	
Outer ring mounting	12 holes - 0.433
Inner ring mounting	12 holes - 0.433
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	66
Printed page	64
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID SPRSGSHASFSWHIFAQLHFZAGNJ3	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 66 Printed page 64
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/mto-143/>

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.