

Factory-Verified Replacement

MERYDOM MTE-145X

Certified for interchange with Kaydon MTE-145X. 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-145X

REFERENCE

Kaydon MTE-145X

SERIES

MT Series

STRUCTURE

Sfere a quattro punti di contatto

OVERALL OD

312.064 mm

OVERALL ID

145.009 mm

OVERALL HEIGHT

49.987 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-145X
Certified interchangeable with	Kaydon MTE-145X
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	44CAUICJXF5MRVUSHXAYRNFO4S
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-145X
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura esterna
DIMENSION	
Overall outside diameter (Do)	12.286 in Metric reference: circa 312,06 mm
Overall inside diameter (di)	5.709 in Metric reference: circa 145,01 mm
Overall height (H)	1.968 in Metric reference: circa 49,99 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)	38 lb Metric reference: circa 17,237 kg
MOUNTING	
Outer ring bolt circle (Lo)	10.630 in Metric reference: circa 270 mm
Inner ring bolt circle (Li)	6.890 in Metric reference: circa 175 mm
GEAR	
Gear pitch diameter (D2)	12.000 in Metric reference: circa 305 mm
Gear tooth count (z2)	60
PERFORMANCE	
Maximum gear tooth load (Fz)	7140 lbf Metric reference: circa 31,76 kN
Moment load rating (Crm)	30600 ft lbf Metric reference: circa 41,49 kN m
PERFORMANCE RATINGS	
Moment	30600.0000000000 ft lbf Metric reference: circa 41,49 kN m
Gear Tooth	7140.0000000000 lbf Metric reference: circa 31,76 kN
MOUNTING INTERFACES	
Outer ring mounting	16 holes - 0.594
Inner ring mounting	16 holes - 0.594
GEAR INTERFACE	
Pitch system	SPECIAL_DP
Number of teeth	60
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390

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.

SOURCE TRACEABILITY (CONTINUED)	
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 44CAUICJXF5MRVUSHXAYRNFO4S	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-145x/>

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.