

Factory-Verified Replacement

MERYDOM HT10-54E1Z

Certified for interchange with Kaydon HT10-54E1Z. 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

HT10-54E1Z

REFERENCE

Kaydon HT10-54E1Z

SERIES

HT Series

STRUCTURE

Sfere a quattro punti di contatto

OVERALL OD

1,519.936 mm

OVERALL ID

1,219.2 mm

OVERALL HEIGHT

88.9 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	HT10-54E1Z
Certified interchangeable with	Kaydon HT10-54E1Z
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ANN5P6KGRQP2IUYRITDTXPBW32
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	HT Series
Reference model	HT10-54E1Z
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura esterna
DIMENSION	
Overall outside diameter (Do)	59.840 in Metric reference: circa 1.519,9 mm
Overall inside diameter (di)	48.000 in Metric reference: circa 1.219 mm
Overall height (H)	3.500 in Metric reference: circa 89 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)	742 lb Metric reference: circa 336,566 kg
MOUNTING	
Outer ring bolt circle (Lo)	56.750 in Metric reference: circa 1.441,5 mm
Inner ring bolt circle (Li)	50.750 in Metric reference: circa 1.289,1 mm
GEAR	
Gear pitch diameter (D2)	59.200 in Metric reference: circa 1.504 mm
Diametral pitch (Pd)	2,5
Gear tooth count (z2)	148
PERFORMANCE	
Maximum gear tooth load (Fz)	19005 lbf Metric reference: circa 84,54 kN
Moment load rating (Crm)	578400 ft lbf Metric reference: circa 784,21 kN m
PERFORMANCE RATINGS	
Moment	578400.0000000000 ft lbf Metric reference: circa 784,21 kN m
Gear Tooth	19005.0000000000 lbf Metric reference: circa 84,54 kN
MOUNTING INTERFACES	
Outer ring mounting	40 holes - 0.750-10 UNC-2B; 1.125 min full thread
Inner ring mounting	44 holes - 0.813 through, equally spaced
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	2.5 DP
Module reference	10.16 mm

Complete Product Data

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GEAR INTERFACE (CONTINUED)	
Number of teeth	148
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	62
Printed page	60
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID ANN5P6KGRQP2IUYRITDTXPBW32	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 62 Printed page 60
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/ht10-54e1z/>

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.