

Factory-Verified Replacement

MERYDOM KH-125E

Certified for interchange with Kaydon KH-125E. 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

KH-125E

SERIES

KH Series

OVERALL OD

419.1 mm

OVERALL HEIGHT

63.5 mm

REFERENCE

Kaydon KH-125E

STRUCTURE

Preloaded four-point contact ball

OVERALL ID

219.075 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	KH-125E
Certified interchangeable with	Kaydon KH-125E
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	D2O5VBGQPKVW775CQTP5375I4
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	KH Series
Reference model	KH-125E
Bearing structure	Preloaded four-point contact ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	16.500 in Metric reference: approximately 419 mm
Overall inside diameter (di)	8.625 in Metric reference: approximately 219.08 mm
Outer ring inner diameter (Di)	12.750 in Metric reference: approximately 323.9 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)	
Inner ring outer diameter (do)	12.250 in Metric reference: approximately 311.2 mm
Overall height (H)	2.500 in Metric reference: approximately 64 mm
Assembly weight (G)	75 lb Metric reference: approximately 34.019 kg
MOUNTING	
Outer ring bolt circle (Lo)	14.750 in Metric reference: approximately 374.7 mm
Inner ring bolt circle (Li)	10.250 in Metric reference: approximately 260.4 mm
GEAR	
Gear pitch diameter (D2)	16.167 in Metric reference: approximately 410.64 mm
Diametral pitch (Pd)	6
Gear tooth count (z2)	97
PERFORMANCE	
Maximum gear tooth load (Fz)	5480 lbf Metric reference: approximately 24.38 kN
Moment load rating (Crm)	13100 ft lbf Metric reference: approximately 17.76 kN m
PERFORMANCE RATINGS	
Moment	13100.0000000000 ft lbf Metric reference: approximately 17.76 kN m
Gear Tooth	5480.0000000000 lbf Metric reference: approximately 24.38 kN
Dynamic Axial	32000.0000000000 lbf Metric reference: approximately 142.34 kN
Intermittent Axial	60000.0000000000 lbf Metric reference: approximately 266.89 kN
Dynamic Moment	13100.0000000000 ft lbf Metric reference: approximately 17.76 kN m
Intermittent Moment	25800.0000000000 ft lbf Metric reference: approximately 34.98 kN m

Complete Product Data

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MOUNTING INTERFACES	
Outer ring mounting	16 holes - 0.500-13 UNC-2B; 0.750 min full thread
Inner ring mounting	16 holes - 0.500-13 UNC-2B; 0.750 min full thread
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	6 DP
Module reference	4.233333 mm
Number of teeth	97
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	74
Printed page	72
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID D2O5VBGQPKVVW775CQTP5375I4	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 74 Printed page 72
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

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/kaydon/kh-125e/>

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.