

Factory-Verified Replacement

MERYDOM KH-166E

Certified for interchange with Kaydon KH-166E. 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-166E

SERIES

KH Series

OVERALL OD

520.7 mm

OVERALL HEIGHT

63.5 mm

REFERENCE

Kaydon KH-166E

STRUCTURE

Sfere a contatto su quattro punti precaricate

OVERALL ID

323.85 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	KH-166E
Certified interchangeable with	Kaydon KH-166E
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	FRWDZQRRHV5CCLIBEMTC25QSJD
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-166E
Bearing structure	Sfere a contatto su quattro punti precaricate
Gear arrangement	Dentatura esterna
DIMENSION	
Overall outside diameter (Do)	20.500 in Metric reference: circa 521 mm
Overall inside diameter (di)	12.750 in Metric reference: circa 323,9 mm
Outer ring inner diameter (Di)	16.875 in Metric reference: circa 428,63 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Inner ring outer diameter (do)	16.375 in Metric reference: circa 415,93 mm
Overall height (H)	2.500 in Metric reference: circa 64 mm
Assembly weight (G)	100 lb Metric reference: circa 45,359 kg
MOUNTING	
Outer ring bolt circle (Lo)	18.875 in Metric reference: circa 479,43 mm
Inner ring bolt circle (Li)	14.375 in Metric reference: circa 365,13 mm
GEAR	
Gear pitch diameter (D2)	20.167 in Metric reference: circa 512,24 mm
Diametral pitch (Pd)	6
Gear tooth count (z2)	121
PERFORMANCE	
Maximum gear tooth load (Fz)	5570 lbf Metric reference: circa 24,78 kN
Moment load rating (Crm)	20500 ft lbf Metric reference: circa 27,79 kN m
PERFORMANCE RATINGS	
Moment	20500.0000000000 ft lbf Metric reference: circa 27,79 kN m
Gear Tooth	5570.0000000000 lbf Metric reference: circa 24,78 kN
Dynamic Axial	36000.0000000000 lbf Metric reference: circa 160,14 kN
Intermittent Axial	82800.0000000000 lbf Metric reference: circa 368,31 kN
Dynamic Moment	20500.0000000000 ft lbf Metric reference: circa 27,79 kN m
Intermittent Moment	45200.0000000000 ft lbf Metric reference: circa 61,28 kN m

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MOUNTING INTERFACES	
Outer ring mounting	20 holes - 0.500-13 UNC-2B; 0.750 min full thread
Inner ring mounting	20 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	121
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 FRWDZQRRHV5CCLIBEMTC25QSJD	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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/kaydon/kh-166e/>

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