

Factory-Verified Replacement

MERYDOM RK6-16E1Z

Certified for interchange with Kaydon RK6-16E1Z. 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

RK6-16E1Z

REFERENCE

Kaydon RK6-16E1Z

SERIES

RK Series

STRUCTURE

Sfere a quattro punti di contatto

OVERALL OD

505.46 mm

OVERALL ID

304.038 mm

OVERALL HEIGHT

56.007 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	RK6-16E1Z
Certified interchangeable with	Kaydon RK6-16E1Z
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5M7MDY2B7GKNHSQTT36JMUVCOC
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	RK Series
Reference model	RK6-16E1Z
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura esterna
DIMENSION	
Overall outside diameter (Do)	19.900 in Metric reference: circa 505 mm
Overall inside diameter (di)	11.970 in Metric reference: circa 304 mm
Outer ring inner diameter (Di)	16.220 in Metric reference: circa 412 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Inner ring outer diameter (do)	16.140 in Metric reference: circa 410 mm
Inner ring body ID (dr)	14.490 in Metric reference: circa 368 mm
Overall height (H)	2.205 in Metric reference: circa 56,01 mm
Assembly weight (G)	72 lb Metric reference: circa 32,659 kg
MOUNTING	
Outer ring bolt circle (Lo)	18.000 in Metric reference: circa 457 mm
Inner ring bolt circle (Li)	13.130 in Metric reference: circa 333,5 mm
GEAR	
Gear pitch diameter (D2)	19.500 in Metric reference: circa 495 mm
Diametral pitch (Pd)	4
Gear tooth count (z2)	78
PERFORMANCE	
Maximum gear tooth load (Fz)	5560 lbf Metric reference: circa 24,73 kN
Moment load rating (Crm)	22700 ft lbf Metric reference: circa 30,78 kN m
PERFORMANCE RATINGS	
Moment	22700.0000000000 ft lbf Metric reference: circa 30,78 kN m
Gear Tooth	5560.0000000000 lbf Metric reference: circa 24,73 kN
MOUNTING INTERFACES	
Outer ring mounting	8 holes - 0.500-13 UNC-2B; 0.750 min full thread; equally spaced
Inner ring mounting	12 holes - 0.688 through, equally spaced
GEAR INTERFACE	

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.

GEAR INTERFACE (CONTINUED)	
Pitch system	DP
Diametral pitch	4 DP
Module reference	6.35 mm
Number of teeth	78
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	52
Printed page	50
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID 5M7MDY2B7GKNHSQTT36JMUVCOC	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 52 Printed page 50
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/rk6-16e1z/>

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.