

Factory-Verified Replacement

MERYDOM RK6-29E1Z

Certified for interchange with Kaydon RK6-29E1Z. 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

RK6-29E1Z

REFERENCE

Kaydon RK6-29E1Z

SERIES

RK Series

STRUCTURE

Four-point contact ball

OVERALL OD

835.66 mm

OVERALL ID

634.238 mm

OVERALL HEIGHT

56.007 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	RK6-29E1Z
Certified interchangeable with	Kaydon RK6-29E1Z
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	LZQTULJX5565DER5XTI6FDZXL4
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	RK6-29E1Z
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	32.900 in Metric reference: approximately 836 mm
Overall inside diameter (di)	24.970 in Metric reference: approximately 634.2 mm
Outer ring inner diameter (Di)	29.220 in Metric reference: approximately 742.2 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Inner ring outer diameter (do)	29.140 in Metric reference: approximately 740.2 mm
Inner ring body ID (dr)	27.490 in Metric reference: approximately 698.2 mm
Overall height (H)	2.205 in Metric reference: approximately 56.01 mm
Assembly weight (G)	128 lb Metric reference: approximately 58.06 kg
MOUNTING	
Outer ring bolt circle (Lo)	31.000 in Metric reference: approximately 787 mm
Inner ring bolt circle (Li)	26.130 in Metric reference: approximately 663.7 mm
GEAR	
Gear pitch diameter (D2)	32.500 in Metric reference: approximately 826 mm
Diametral pitch (Pd)	4
Gear tooth count (z2)	130
PERFORMANCE	
Maximum gear tooth load (Fz)	5740 lbf Metric reference: approximately 25.53 kN
Moment load rating (Crm)	54200 ft lbf Metric reference: approximately 73.49 kN m
PERFORMANCE RATINGS	
Moment	54200.0000000000 ft lbf Metric reference: approximately 73.49 kN m
Gear Tooth	5740.0000000000 lbf Metric reference: approximately 25.53 kN
MOUNTING INTERFACES	
Outer ring mounting	18 holes - 0.500-13 UNC-2B; 0.750 min full thread; equally spaced
Inner ring mounting	18 holes - 0.688 through, equally spaced

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GEAR INTERFACE	
Pitch system	DP
Diametral pitch	4 DP
Module reference	6.35 mm
Number of teeth	130
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
LZQTULJX5565DER5XTI6FDZXL4

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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/kaydon/rk6-29e1z/>

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.