

Factory-Verified Replacement

MERYDOM RK6-25N1Z

Certified for interchange with Kaydon RK6-25N1Z. 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

RK6-25N1Z

REFERENCE

Kaydon RK6-25N1Z

SERIES

RK Series

STRUCTURE

Four-point contact ball

OVERALL OD

748.03 mm

OVERALL ID

548.64 mm

OVERALL HEIGHT

56.007 mm

GEAR

Internal 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	RK6-25N1Z
Certified interchangeable with	Kaydon RK6-25N1Z
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ZUMRGWZW2ZRSCUTHFSUDQLY5LL
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	RK6-25N1Z
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	29.450 in Metric reference: approximately 748 mm
Overall inside diameter (di)	21.600 in Metric reference: approximately 549 mm
Outer ring body OD (Dr)	26.930 in Metric reference: approximately 684 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)	
Outer ring inner diameter (Di)	25.280 in Metric reference: approximately 642.1 mm
Inner ring outer diameter (do)	25.200 in Metric reference: approximately 640 mm
Overall height (H)	2.205 in Metric reference: approximately 56.01 mm
Assembly weight (G)	106 lb Metric reference: approximately 48.081 kg
MOUNTING	
Outer ring bolt circle (Lo)	28.380 in Metric reference: approximately 720.9 mm
Inner ring bolt circle (Li)	23.630 in Metric reference: approximately 600.2 mm
GEAR	
Gear pitch diameter (D2)	22.000 in Metric reference: approximately 559 mm
Diametral pitch (Pd)	4
Gear tooth count (z2)	88
PERFORMANCE	
Maximum gear tooth load (Fz)	6400 lbf Metric reference: approximately 28.47 kN
Moment load rating (Crm)	49800 ft lbf Metric reference: approximately 67.52 kN m
PERFORMANCE RATINGS	
Moment	49800.0000000000 ft lbf Metric reference: approximately 67.52 kN m
Gear Tooth	6400.0000000000 lbf Metric reference: approximately 28.47 kN
MOUNTING INTERFACES	
Outer ring mounting	12 holes - 0.688 through, equally spaced
Inner ring mounting	18 holes - 0.500-13 UNC-2B; 0.750 min full thread; equally spaced

Complete Product Data

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GEAR INTERFACE	
Pitch system	DP
Diametral pitch	4 DP
Module reference	6.35 mm
Number of teeth	88
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	51
Printed page	49
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID ZUMRGWZW2ZRSCUTHFSUDQLY5LL	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 51 Printed page 49
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/rk6-25n1z/>

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.