

Factory-Verified Replacement

MERYDOM HS6-21N1Z

Certified for interchange with Kaydon HS6-21N1Z. 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

HS6-21N1Z

REFERENCE

Kaydon HS6-21N1Z

SERIES

HS Series

STRUCTURE

Sfere a quattro punti di contatto

OVERALL OD

647.7 mm

OVERALL ID

447.04 mm

OVERALL HEIGHT

55.88 mm

GEAR

Dentatura interna

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	HS6-21N1Z
Certified interchangeable with	Kaydon HS6-21N1Z
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	2L64BHKGDM7XQVJVWKYLHXU6VZ
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	HS Series
Reference model	HS6-21N1Z
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura interna
DIMENSION	
Overall outside diameter (Do)	25.500 in Metric reference: circa 648 mm
Overall inside diameter (di)	17.600 in Metric reference: circa 447 mm
Overall height (H)	2.200 in Metric reference: circa 56 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Assembly weight (G)	117 lb Metric reference: circa 53,07 kg
MOUNTING	
Outer ring bolt circle (Lo)	24.000 in Metric reference: circa 610 mm
Inner ring bolt circle (Li)	19.630 in Metric reference: circa 498,6 mm
GEAR	
Gear pitch diameter (D2)	18.000 in Metric reference: circa 457 mm
Diametral pitch (Pd)	4
Gear tooth count (z2)	72
PERFORMANCE	
Maximum gear tooth load (Fz)	5842 lbf Metric reference: circa 25,99 kN
Moment load rating (Crm)	72700 ft lbf Metric reference: circa 98,57 kN m
PERFORMANCE RATINGS	
Moment	72700.0000000000 ft lbf Metric reference: circa 98,57 kN m
Gear Tooth	5842.0000000000 lbf Metric reference: circa 25,99 kN
MOUNTING INTERFACES	
Outer ring mounting	12 holes - 0.688 through, equally spaced
Inner ring mounting	20 holes - 0.500-13 UNC-2B; 0.750 min full thread
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	4 DP
Module reference	6.35 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.

GEAR INTERFACE (CONTINUED)	
Number of teeth	72
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	56
Printed page	54
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID**2L64BHKGDM7XQVJVWKYLHXU6VZ****SOURCE DOCUMENT****KAYDON-CAT390****SOURCE FILE****Kaydon_Catalog_390.pdf****SOURCE LOCATION****PDF page 56 | Printed page 54****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 17705201170Product page: <https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/kaydon/hs6-21n1z/>

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