

Factory-Verified Replacement

MERYDOM 16336001

Certified for interchange with Kaydon 16336001. 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

16336001

REFERENCE

Kaydon 16336001

SERIES

XR Series

STRUCTURE

Cross roller

OVERALL OD

3,606.8 mm

OVERALL ID

3,129.28 mm

OVERALL HEIGHT

152.4 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	16336001
Certified interchangeable with	Kaydon 16336001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	RNW62PPK6LTTNQ2XL6YX3W55U3
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	XR Series
Reference model	16336001
Bearing structure	Cross roller
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	142.000 in Metric reference: approximately 3,607 mm
Overall inside diameter (di)	123.200 in Metric reference: approximately 3,129 mm
Overall height (H)	6.000 in Metric reference: approximately 152 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)	
Assembly weight (G)	5370 lb Metric reference: approximately 2,435.791 kg
MOUNTING	
Outer ring bolt circle (Lo)	139.000 in Metric reference: approximately 3,531 mm
Inner ring bolt circle (Li)	128.000 in Metric reference: approximately 3,251 mm
GEAR	
Gear pitch diameter (D2)	124.000 in Metric reference: approximately 3,150 mm
Diametral pitch (Pd)	2
Gear tooth count (z2)	248
PERFORMANCE	
Maximum gear tooth load (Fz)	50440 lbf Metric reference: approximately 224.37 kN
Moment load rating (Crm)	4057130 ft lbf Metric reference: approximately 5,500.73 kN m
PERFORMANCE RATINGS	
Moment	4057130.0000000000 ft lbf Metric reference: approximately 5,500.73 kN m
Gear Tooth	50440.0000000000 lbf Metric reference: approximately 224.37 kN
Dynamic Radial	675310.0000000000 lbf Metric reference: approximately 3,003.93 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Thrust	758460.0000000000 lbf Metric reference: approximately 3,373.8 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Moment	4057130.0000000000 ft lbf Metric reference: approximately 5,500.73 kN m L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	72 holes - 1.063

Complete Product Data

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MOUNTING INTERFACES (CONTINUED)	
Inner ring mounting	72 holes - 1.063
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	2 DP
Module reference	12.7 mm
Number of teeth	248
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	100
Printed page	98
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID RNW62PPK6LTTNQ2XL6YX3W55U3	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 100 Printed page 98
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/16336001/>

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.