

Factory-Verified Replacement

MERYDOM 16335001

Certified for interchange with Kaydon 16335001. 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

16335001

REFERENCE

Kaydon 16335001

SERIES

XR Series

STRUCTURE

Cross roller

OVERALL OD

3,085.998 mm

OVERALL ID

2,482.012 mm

OVERALL HEIGHT

172.009 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	16335001
Certified interchangeable with	Kaydon 16335001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5CB7J72DYNGNN36CBIYPEGFJU7
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	16335001
Bearing structure	Cross roller
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	121.496 in Metric reference: approximately 3,086 mm
Overall inside diameter (di)	97.717 in Metric reference: approximately 2,482.01 mm
Overall height (H)	6.772 in Metric reference: approximately 172.01 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)	6080 lb Metric reference: approximately 2,757.842 kg
MOUNTING	
Outer ring bolt circle (Lo)	117.795 in Metric reference: approximately 2,991.99 mm
Inner ring bolt circle (Li)	105.512 in Metric reference: approximately 2,680 mm
GEAR	
Gear pitch diameter (D2)	98.268 in Metric reference: approximately 2,496.01 mm
Gear tooth count (z2)	104
PERFORMANCE	
Maximum gear tooth load (Fz)	134270 lbf Metric reference: approximately 597.26 kN
Moment load rating (Crm)	3797780 ft lbf Metric reference: approximately 5,149.1 kN m
PERFORMANCE RATINGS	
Moment	3797780.0000000000 ft lbf Metric reference: approximately 5,149.1 kN m
Gear Tooth	134270.0000000000 lbf Metric reference: approximately 597.26 kN
Dynamic Radial	755820.0000000000 lbf Metric reference: approximately 3,362.05 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Thrust	854030.0000000000 lbf Metric reference: approximately 3,798.91 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Moment	3797780.0000000000 ft lbf Metric reference: approximately 5,149.1 kN m L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	72 holes - 1.535
Inner ring mounting	72 holes - 1.535

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GEAR INTERFACE	
Pitch system	MODULE
Module reference	24 mm
Number of teeth	104
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 5CB7J72DYNGNN36CBIYPEGFJU7	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/16335001/>

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.