

Factory-Verified Replacement

MERYDOM 16340001

Certified for interchange with Kaydon 16340001. 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

16340001

REFERENCE

Kaydon 16340001

SERIES

XR Series

STRUCTURE

Cross roller

OVERALL OD

854.126 mm

OVERALL ID

673.989 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	16340001
Certified interchangeable with	Kaydon 16340001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	O45UZNWP6Z3QZ2NEGCMXPC7R7F
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	16340001
Bearing structure	Cross roller
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	33.627 in Metric reference: approximately 854.13 mm
Overall inside diameter (di)	26.535 in Metric reference: approximately 673.99 mm
Overall height (H)	2.205 in Metric reference: approximately 56.01 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Assembly weight (G)	140 lb Metric reference: approximately 63.503 kg
MOUNTING	
Outer ring bolt circle (Lo)	30.906 in Metric reference: approximately 785.01 mm
Inner ring bolt circle (Li)	27.480 in Metric reference: approximately 698 mm
GEAR	
Gear pitch diameter (D2)	33.071 in Metric reference: approximately 840 mm
Gear tooth count (z2)	105
PERFORMANCE	
Maximum gear tooth load (Fz)	9130 lbf Metric reference: approximately 40.61 kN
Moment load rating (Crm)	77600 ft lbf Metric reference: approximately 105.21 kN m
PERFORMANCE RATINGS	
Moment	77600.0000000000 ft lbf Metric reference: approximately 105.21 kN m
Gear Tooth	9130.0000000000 lbf Metric reference: approximately 40.61 kN
Dynamic Radial	58790.0000000000 lbf Metric reference: approximately 261.51 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Thrust	66360.0000000000 lbf Metric reference: approximately 295.18 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Moment	77600.0000000000 ft lbf Metric reference: approximately 105.21 kN m L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - M12x1.75
Inner ring mounting	40 holes - 0.551

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GEAR INTERFACE	
Pitch system	MODULE
Module reference	8 mm
Number of teeth	105
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	102
Printed page	100
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID O45UZNWP6Z3QZ2NEGCMXPC7R7F	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 102 Printed page 100
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/16340001/>

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.