

Factory-Verified Replacement

MERYDOM 16341001

Certified for interchange with Kaydon 16341001. 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

16341001

REFERENCE

Kaydon 16341001

SERIES

XR Series

STRUCTURE

Cross roller

OVERALL OD

922.858 mm

OVERALL ID

622.3 mm

OVERALL HEIGHT

119.126 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	16341001
Certified interchangeable with	Kaydon 16341001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	6Q6NFJKZ2QSUEMB5H5DMFJ3U5G
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	16341001
Bearing structure	Cross roller
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	36.333 in Metric reference: approximately 922.86 mm
Overall inside diameter (di)	24.500 in Metric reference: approximately 622 mm
Outer ring body OD (Dr)	35.500 in Metric reference: approximately 902 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)	
Inner ring body ID (dr)	24.625 in Metric reference: approximately 625.48 mm
Overall height (H)	4.690 in Metric reference: approximately 119.1 mm
Assembly weight (G)	580 lb Metric reference: approximately 263.084 kg
MOUNTING	
Outer ring bolt circle (Lo)	33.625 in Metric reference: approximately 854.08 mm
Inner ring bolt circle (Li)	26.125 in Metric reference: approximately 663.58 mm
GEAR	
Gear pitch diameter (D2)	36.000 in Metric reference: approximately 914 mm
Diametral pitch (Pd)	6
Gear tooth count (z2)	216
PERFORMANCE	
Maximum gear tooth load (Fz)	12700 lbf Metric reference: approximately 56.49 kN
Moment load rating (Crm)	274290 ft lbf Metric reference: approximately 371.89 kN m
PERFORMANCE RATINGS	
Moment	274290.0000000000 ft lbf Metric reference: approximately 371.89 kN m
Gear Tooth	12700.0000000000 lbf Metric reference: approximately 56.49 kN
Dynamic Radial	204020.0000000000 lbf Metric reference: approximately 907.53 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Thrust	236880.0000000000 lbf Metric reference: approximately 1,053.69 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Moment	274290.0000000000 ft lbf Metric reference: approximately 371.89 kN m L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings

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MOUNTING INTERFACES	
Outer ring mounting	24 holes - 0.813
Inner ring mounting	24 holes - 0.813
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	6 DP
Module reference	4.233333 mm
Number of teeth	216
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 6Q6NFJKZ2QSUEMB5H5DMFJ3U5G	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/16341001/>

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.