

Factory-Verified Replacement

MERYDOM 16343001

Certified for interchange with Kaydon 16343001. 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

16343001

REFERENCE

Kaydon 16343001

SERIES

XR Series

STRUCTURE

Cross roller

OVERALL OD

1,296.416 mm

OVERALL ID

1,016 mm

OVERALL HEIGHT

101.6 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	16343001
Certified interchangeable with	Kaydon 16343001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	WT7VMM5F2RBZQUJ62VY7O2F6MB
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	16343001
Bearing structure	Cross roller
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	51.040 in Metric reference: approximately 1,296.4 mm
Overall inside diameter (di)	40.000 in Metric reference: approximately 1,016 mm
Overall height (H)	4.000 in Metric reference: approximately 102 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)	680 lb Metric reference: approximately 308.443 kg
MOUNTING	
Outer ring bolt circle (Lo)	48.200 in Metric reference: approximately 1,224 mm
Inner ring bolt circle (Li)	41.800 in Metric reference: approximately 1,062 mm
GEAR	
Gear pitch diameter (D2)	50.400 in Metric reference: approximately 1,280 mm
Diametral pitch (Pd)	2.5
Gear tooth count (z2)	126
PERFORMANCE	
Maximum gear tooth load (Fz)	24380 lbf Metric reference: approximately 108.45 kN
Moment load rating (Crm)	396330 ft lbf Metric reference: approximately 537.35 kN m
PERFORMANCE RATINGS	
Moment	396330.0000000000 ft lbf Metric reference: approximately 537.35 kN m
Gear Tooth	24380.0000000000 lbf Metric reference: approximately 108.45 kN
Dynamic Radial	195710.0000000000 lbf Metric reference: approximately 870.56 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Thrust	222290.0000000000 lbf Metric reference: approximately 988.8 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Moment	396330.0000000000 ft lbf Metric reference: approximately 537.35 kN m L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - 0.813

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.

MOUNTING INTERFACES (CONTINUED)	
Inner ring mounting	36 holes - 0.813
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	2.5 DP
Module reference	10.16 mm
Number of teeth	126
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 WT7VMM5F2RBZQUJ62VY7O2F6MB	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/16343001/>

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.