

Factory-Verified Replacement

MERYDOM 16337001

Certified for interchange with Kaydon 16337001. 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

16337001

REFERENCE

Kaydon 16337001

SERIES

XR Series

STRUCTURE

Cross roller

OVERALL OD

406.4 mm

OVERALL ID

233.426 mm

OVERALL HEIGHT

55.118 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	16337001
Certified interchangeable with	Kaydon 16337001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	NQI6LYDSAWT4EBWC2F3TVBVMLS
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	16337001
Bearing structure	Cross roller
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	16.000 in Metric reference: approximately 406 mm
Overall inside diameter (di)	9.190 in Metric reference: approximately 233.4 mm
Outer ring body OD (Dr)	14.880 in Metric reference: approximately 378 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)	9.250 in Metric reference: approximately 235 mm
Overall height (H)	2.170 in Metric reference: approximately 55.1 mm
Assembly weight (G)	55 lb Metric reference: approximately 24.948 kg
MOUNTING	
Outer ring bolt circle (Lo)	14.094 in Metric reference: approximately 357.99 mm
Inner ring bolt circle (Li)	10.197 in Metric reference: approximately 259 mm
GEAR	
Gear pitch diameter (D2)	15.600 in Metric reference: approximately 396 mm
Diametral pitch (Pd)	5
Gear tooth count (z2)	78
PERFORMANCE	
Maximum gear tooth load (Fz)	4320 lbf Metric reference: approximately 19.22 kN
Moment load rating (Crm)	13190 ft lbf Metric reference: approximately 17.88 kN m
PERFORMANCE RATINGS	
Moment	13190.0000000000 ft lbf Metric reference: approximately 17.88 kN m
Gear Tooth	4320.0000000000 lbf Metric reference: approximately 19.22 kN
Dynamic Radial	24130.0000000000 lbf Metric reference: approximately 107.34 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Thrust	27780.0000000000 lbf Metric reference: approximately 123.57 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Moment	13190.0000000000 ft lbf Metric reference: approximately 17.88 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 - 0.562
Inner ring mounting	24 holes - 0.562
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	5 DP
Module reference	5.08 mm
Number of teeth	78
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 NQI6LYDSAWT4EBWC2F3TVBVMLS	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/16337001/>

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.