

Factory-Verified Replacement

MERYDOM 16338001

Certified for interchange with Kaydon 16338001. 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

16338001

REFERENCE

Kaydon 16338001

SERIES

XR Series

STRUCTURE

Rolos cruzados

OVERALL OD

592.658 mm

OVERALL ID

349.25 mm

OVERALL HEIGHT

69.85 mm

GEAR

Engrenagem externa

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	16338001
Certified interchangeable with	Kaydon 16338001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	FKR27I6ZCJSVNBHPGZ5LIRBB2R
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	16338001
Bearing structure	Rolos cruzados
Gear arrangement	Engrenagem externa
DIMENSION	
Overall outside diameter (Do)	23.333 in Metric reference: aproximadamente 592,66 mm
Overall inside diameter (di)	13.750 in Metric reference: aproximadamente 349,3 mm
Overall height (H)	2.750 in Metric reference: aproximadamente 69,9 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)	175 lb Metric reference: aproximadamente 79,379 kg
MOUNTING	
Outer ring bolt circle (Lo)	20.875 in Metric reference: aproximadamente 530,23 mm
Inner ring bolt circle (Li)	15.375 in Metric reference: aproximadamente 390,53 mm
GEAR	
Gear pitch diameter (D2)	23.000 in Metric reference: aproximadamente 584 mm
Diametral pitch (Pd)	6
Gear tooth count (z2)	138
PERFORMANCE	
Maximum gear tooth load (Fz)	7430 lbf Metric reference: aproximadamente 33,05 kN
Moment load rating (Crm)	69470 ft lbf Metric reference: aproximadamente 94,19 kN m
PERFORMANCE RATINGS	
Moment	69470.0000000000 ft lbf Metric reference: aproximadamente 94,19 kN m
Gear Tooth	7430.0000000000 lbf Metric reference: aproximadamente 33,05 kN
Dynamic Radial	85170.0000000000 lbf Metric reference: aproximadamente 378,86 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Thrust	99260.0000000000 lbf Metric reference: aproximadamente 441,53 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Moment	69470.0000000000 ft lbf Metric reference: aproximadamente 94,19 kN m L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	12 holes - 0.688

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	12 holes - 0.688
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	6 DP
Module reference	4.233333 mm
Number of teeth	138
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 FKR27I6ZCJSVNBHPGZ5LIRBB2R	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

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Product page: <https://rotnex.com/pt/produtos/rolamentos-de-giro-de-substituicao/kaydon/16338001/>

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.