

Factory-Verified Replacement

MERYDOM 16313001

Certified for interchange with Kaydon 16313001. 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

16313001

REFERENCE

Kaydon 16313001

SERIES

XT Series

STRUCTURE

Esferas de contato de quatro pontos

OVERALL OD

2,509.52 mm

OVERALL ID

1,991.36 mm

OVERALL HEIGHT

168.275 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	16313001
Certified interchangeable with	Kaydon 16313001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	EGAJBWQGSKEKXL6IJCHGU43YJ
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	XT Series
Reference model	16313001
Bearing structure	Esferas de contato de quatro pontos
Gear arrangement	Engrenagem externa
DIMENSION	
Overall outside diameter (Do)	98.800 in Metric reference: aproximadamente 2.510 mm
Overall inside diameter (di)	78.400 in Metric reference: aproximadamente 1.991 mm
Outer ring body OD (Dr)	98.000 in Metric reference: aproximadamente 2.489 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	6.625 in Metric reference: aproximadamente 168,28 mm
Assembly weight (G)	4000 lb Metric reference: aproximadamente 1.814,369 kg
MOUNTING	
Outer ring bolt circle (Lo)	94.250 in Metric reference: aproximadamente 2.394 mm
Inner ring bolt circle (Li)	82.500 in Metric reference: aproximadamente 2.096 mm
GEAR	
Gear pitch diameter (D2)	98.000 in Metric reference: aproximadamente 2.489 mm
Diametral pitch (Pd)	2
Gear tooth count (z2)	196
PERFORMANCE	
Maximum gear tooth load (Fz)	49600 lbf Metric reference: aproximadamente 220,63 kN
Moment load rating (Crm)	4951000 ft lbf Metric reference: aproximadamente 6.712,65 kN · m
PERFORMANCE RATINGS	
Moment	4951000.0000000000 ft lbf Metric reference: aproximadamente 6.712,65 kN · m
Gear Tooth	49600.0000000000 lbf Metric reference: aproximadamente 220,63 kN
MOUNTING INTERFACES	
Outer ring mounting	72 holes - 1.562
Inner ring mounting	60 holes - 1.812
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	2 DP

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.

GEAR INTERFACE (CONTINUED)	
Module reference	12.7 mm
Number of teeth	196
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	82
Printed page	80
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID EGAJBWQGSKEKLXL6IJCHGU43YJ	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 82 Printed page 80
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/pt/produtos/rolamentos-de-giro-de-substituicao/kaydon/16313001/>

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.