

Factory-Verified Replacement

MERYDOM 16317001

Certified for interchange with Kaydon 16317001. 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

16317001

REFERENCE

Kaydon 16317001

SERIES

XT Series

STRUCTURE

Four-point contact ball

OVERALL OD

5,544.007 mm

OVERALL ID

5,009.998 mm

OVERALL HEIGHT

140.005 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	16317001
Certified interchangeable with	Kaydon 16317001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	SQD72COTG66KHHUEXWN6CFJFGV
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	16317001
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	218.268 in Metric reference: approximately 5,544.01 mm
Overall inside diameter (di)	197.244 in Metric reference: approximately 5,010 mm
Outer ring body OD (Dr)	216.142 in Metric reference: approximately 5,490.01 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	5.512 in Metric reference: approximately 140 mm
Assembly weight (G)	8700 lb Metric reference: approximately 3,946.254 kg
MOUNTING	
Outer ring bolt circle (Lo)	212.598 in Metric reference: approximately 5,399.99 mm
Inner ring bolt circle (Li)	200.787 in Metric reference: approximately 5,099.99 mm
GEAR	
Gear pitch diameter (D2)	217.323 in Metric reference: approximately 5,520 mm
Gear tooth count (z2)	460
PERFORMANCE	
Maximum gear tooth load (Fz)	31100 lbf Metric reference: approximately 138.34 kN
Moment load rating (Crm)	3190000 ft lbf Metric reference: approximately 4,325.06 kN m
PERFORMANCE RATINGS	
Moment	3190000.0000000000 ft lbf Metric reference: approximately 4,325.06 kN m
Gear Tooth	31100.0000000000 lbf Metric reference: approximately 138.34 kN
MOUNTING INTERFACES	
Outer ring mounting	90 holes - 1.260
Inner ring mounting	90 holes - 1.260
GEAR INTERFACE	
Pitch system	MODULE
Module reference	12 mm
Number of teeth	460

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.

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 SQD72COTG66KHHUEXWN6CFJFGV	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/products/slewing-bearing-replacements/kaydon/16317001/>

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.