

Factory-Verified Replacement

MERYDOM 16316001

Certified for interchange with Kaydon 16316001. 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

16316001

REFERENCE

Kaydon 16316001

SERIES

XT Series

STRUCTURE

Four-point contact ball

OVERALL OD

4,999.99 mm

OVERALL ID

4,409.999 mm

OVERALL HEIGHT

177.8 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	16316001
Certified interchangeable with	Kaydon 16316001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	25TOOEU6KJHR4VGZUSBM5WQROL
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	16316001
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	196.850 in Metric reference: approximately 5,000 mm
Overall inside diameter (di)	173.622 in Metric reference: approximately 4,410 mm
Outer ring body OD (Dr)	192.716 in Metric reference: approximately 4,894.99 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	7.000 in Metric reference: approximately 178 mm
Assembly weight (G)	10100 lb Metric reference: approximately 4,581.283 kg
MOUNTING	
Outer ring bolt circle (Lo)	189.370 in Metric reference: approximately 4,810 mm
Inner ring bolt circle (Li)	177.559 in Metric reference: approximately 4,510 mm
GEAR	
Gear pitch diameter (D2)	195.276 in Metric reference: approximately 4,960.01 mm
Gear tooth count (z2)	248
PERFORMANCE	
Maximum gear tooth load (Fz)	81000 lbf Metric reference: approximately 360.31 kN
Moment load rating (Crm)	5210000 ft lbf Metric reference: approximately 7,063.81 kN m
PERFORMANCE RATINGS	
Moment	5210000.0000000000 ft lbf Metric reference: approximately 7,063.81 kN m
Gear Tooth	81000.0000000000 lbf Metric reference: approximately 360.31 kN
MOUNTING INTERFACES	
Outer ring mounting	80 holes - 1.535
Inner ring mounting	80 holes - 1.535
GEAR INTERFACE	
Pitch system	MODULE
Module reference	20 mm
Number of teeth	248

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 25TOOEU6KJHR4VGZUSBM5WQROL	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/16316001/>

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.