

Factory-Verified Replacement

MERYDOM 16301001

Certified for interchange with Kaydon 16301001. 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

16301001

REFERENCE

Kaydon 16301001

SERIES

XT Series

STRUCTURE

Four-point contact ball

OVERALL OD

2,603.5 mm

OVERALL ID

2,168.144 mm

OVERALL HEIGHT

188.976 mm

GEAR

Internal 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	16301001
Certified interchangeable with	Kaydon 16301001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	JJJNNV5P5GDZ7UJA25FGDIKZPI
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	16301001
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	102.500 in Metric reference: approximately 2,604 mm
Overall inside diameter (di)	85.360 in Metric reference: approximately 2,168.1 mm
Inner ring body ID (dr)	88.380 in Metric reference: approximately 2,244.9 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)	
Overall height (H)	7.440 in Metric reference: approximately 189 mm
Assembly weight (G)	3750 lb Metric reference: approximately 1,700.971 kg
MOUNTING	
Outer ring bolt circle (Lo)	99.803 in Metric reference: approximately 2,535 mm
Inner ring bolt circle (Li)	91.142 in Metric reference: approximately 2,315.01 mm
GEAR	
Gear pitch diameter (D2)	86.667 in Metric reference: approximately 2,201.34 mm
Diametral pitch (Pd)	1.5
Gear tooth count (z2)	130
PERFORMANCE	
Maximum gear tooth load (Fz)	81500 lbf Metric reference: approximately 362.53 kN
Moment load rating (Crm)	3457000 ft lbf Metric reference: approximately 4,687.06 kN m
PERFORMANCE RATINGS	
Moment	3457000.0000000000 ft lbf Metric reference: approximately 4,687.06 kN m
Gear Tooth	81500.0000000000 lbf Metric reference: approximately 362.53 kN
MOUNTING INTERFACES	
Outer ring mounting	60 holes - 1.312
Inner ring mounting	60 holes - 1.312
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	1.5 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	16.933333 mm
Number of teeth	130
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	80
Printed page	78
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID

JJJNNV5P5GDZ7UJA25FGDIKZPI

SOURCE DOCUMENT

KAYDON-CAT390

SOURCE FILE

Kaydon_Catalog_390.pdf

SOURCE LOCATION

PDF page 80 | Printed page 78

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/16301001/>

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.