

Factory-Verified Replacement

MERYDOM 16293001

Certified for interchange with Kaydon 16293001. 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

16293001

REFERENCE

Kaydon 16293001

SERIES

XT Series

STRUCTURE

Four-point contact ball

OVERALL OD

520.344 mm

OVERALL ID

323.85 mm

OVERALL HEIGHT

52.324 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	16293001
Certified interchangeable with	Kaydon 16293001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	2ZQNLIHDCPZQTV5SNKKGNL2NJR
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	16293001
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	20.486 in Metric reference: approximately 520.34 mm
Overall inside diameter (di)	12.750 in Metric reference: approximately 323.9 mm
Overall height (H)	2.060 in Metric reference: approximately 52.3 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)	105 lb Metric reference: approximately 47.627 kg
MOUNTING	
Outer ring bolt circle (Lo)	18.875 in Metric reference: approximately 479.43 mm
Inner ring bolt circle (Li)	14.375 in Metric reference: approximately 365.13 mm
GEAR	
Gear pitch diameter (D2)	13.000 in Metric reference: approximately 330 mm
Gear tooth count (z2)	65
PERFORMANCE	
Maximum gear tooth load (Fz)	8800 lbf Metric reference: approximately 39.14 kN
Moment load rating (Crm)	81300 ft lbf Metric reference: approximately 110.23 kN m
PERFORMANCE RATINGS	
Moment	81300.0000000000 ft lbf Metric reference: approximately 110.23 kN m
Gear Tooth	8800.0000000000 lbf Metric reference: approximately 39.14 kN
MOUNTING INTERFACES	
Outer ring mounting	20 holes - 0.594
Inner ring mounting	20 holes - 0.594
GEAR INTERFACE	
Pitch system	SPECIAL_DP
Number of teeth	65
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390

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 (CONTINUED)	
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 2ZQNLIHDCPZQTV5SNKKGNL2NJR	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/16293001/>

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.