

Factory-Verified Replacement

MERYDOM 16299001

Certified for interchange with Kaydon 16299001. 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

16299001

REFERENCE

Kaydon 16299001

SERIES

XT Series

STRUCTURE

Four-point contact ball

OVERALL OD

1,841.5 mm

OVERALL ID

1,447.8 mm

OVERALL HEIGHT

152.4 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	16299001
Certified interchangeable with	Kaydon 16299001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	4IDIZCDOQB7LXCCEPTCE3YKALB
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	16299001
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	72.500 in Metric reference: approximately 1,842 mm
Overall inside diameter (di)	57.000 in Metric reference: approximately 1,448 mm
Inner ring body ID (dr)	59.380 in Metric reference: approximately 1,508.3 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)	
Overall height (H)	6.000 in Metric reference: approximately 152 mm
Assembly weight (G)	1900 lb Metric reference: approximately 861.826 kg
MOUNTING	
Outer ring bolt circle (Lo)	69.750 in Metric reference: approximately 1,771.7 mm
Inner ring bolt circle (Li)	61.500 in Metric reference: approximately 1,562 mm
GEAR	
Gear pitch diameter (D2)	58.000 in Metric reference: approximately 1,473 mm
Diametral pitch (Pd)	2
Gear tooth count (z2)	116
PERFORMANCE	
Maximum gear tooth load (Fz)	46600 lbf Metric reference: approximately 207.29 kN
Moment load rating (Crm)	1831000 ft lbf Metric reference: approximately 2,482.5 kN m
PERFORMANCE RATINGS	
Moment	1831000.0000000000 ft lbf Metric reference: approximately 2,482.5 kN m
Gear Tooth	46600.0000000000 lbf Metric reference: approximately 207.29 kN
MOUNTING INTERFACES	
Outer ring mounting	48 holes - 1.063
Inner ring mounting	48 holes - 1.063
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	116
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 4IDIZCDOQB7LXCCEPTCE3YKALB	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/16299001/>

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.