

Factory-Verified Replacement

MERYDOM 16291001

Certified for interchange with Kaydon 16291001. 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

16291001

REFERENCE

Kaydon 16291001

SERIES

XT Series

STRUCTURE

Four-point contact ball

OVERALL OD

4,521.2 mm

OVERALL ID

4,114.8 mm

OVERALL HEIGHT

139.7 mm

GEAR

Ungeared

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	16291001
Certified interchangeable with	Kaydon 16291001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	LPIKQZM5ZCNMO2ZMGRGJW3ZLSQ
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	16291001
Bearing structure	Four-point contact ball
Gear arrangement	Ungearred
DIMENSION	
Overall outside diameter (Do)	178.000 in Metric reference: approximately 4,521 mm
Overall inside diameter (di)	162.000 in Metric reference: approximately 4,115 mm
Overall height (H)	5.500 in Metric reference: approximately 140 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)	5350 lb Metric reference: approximately 2,426.719 kg
MOUNTING	
Outer ring bolt circle (Lo)	174.500 in Metric reference: approximately 4,432 mm
Inner ring bolt circle (Li)	165.500 in Metric reference: approximately 4,204 mm
PERFORMANCE	
Moment load rating (Crm)	2258000 ft lbf Metric reference: approximately 3,061.44 kN m
PERFORMANCE RATINGS	
Moment	2258000.0000000000 ft lbf Metric reference: approximately 3,061.44 kN m
MOUNTING INTERFACES	
Outer ring mounting	96 holes - 1.063
Inner ring mounting	96 holes - 1.063
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	78
Printed page	76
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID LPIKQZM5ZCNMO2ZMGRGJW3ZLSQ	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 78 Printed page 76
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/16291001/>

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.