

Factory-Verified Replacement

MERYDOM 16279001

Certified for interchange with Kaydon 16279001. 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

16279001

REFERENCE

Kaydon 16279001

SERIES

DT Series

STRUCTURE

Eight-point contact ball

OVERALL OD

2,778.125 mm

OVERALL ID

2,214.118 mm

OVERALL HEIGHT

236.525 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	16279001
Certified interchangeable with	Kaydon 16279001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	LWEEZR3ESI2EV5QTN73SLNKCRR
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	DT Series
Reference model	16279001
Bearing structure	Eight-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	109.375 in Metric reference: approximately 2,778.13 mm
Overall inside diameter (di)	87.170 in Metric reference: approximately 2,214.1 mm
Inner ring body ID (dr)	87.170 in Metric reference: approximately 2,214.1 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	9.312 in Metric reference: approximately 236.52 mm
Assembly weight (G)	7100 lb Metric reference: approximately 3,220.506 kg
MOUNTING	
Outer ring bolt circle (Lo)	102.953 in Metric reference: approximately 2,615.01 mm
Inner ring bolt circle (Li)	93.504 in Metric reference: approximately 2,375 mm
GEAR	
Gear pitch diameter (D2)	87.874 in Metric reference: approximately 2,232 mm
Gear tooth count (z2)	124
PERFORMANCE	
Maximum gear tooth load (Fz)	94870 lbf Metric reference: approximately 422 kN
Moment load rating (Crm)	9075400 ft lbf Metric reference: approximately 12,304.59 kN m
PERFORMANCE RATINGS	
Moment	9075400.0000000000 ft lbf Metric reference: approximately 12,304.59 kN m
Gear Tooth	94870.0000000000 lbf Metric reference: approximately 422 kN
MOUNTING INTERFACES	
Outer ring mounting	66 holes - 1.593
Inner ring mounting	66 holes - 1.593
GEAR INTERFACE	
Pitch system	MODULE
Module reference	18 mm
Number of teeth	124

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	90
Printed page	88
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID LWEEZR3ESI2EV5QTN73SLNKCRR	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 90 Printed page 88
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/16279001/>

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.