

Factory-Verified Replacement

MERYDOM 16277001

Certified for interchange with Kaydon 16277001. 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

16277001

REFERENCE

Kaydon 16277001

SERIES

DT Series

STRUCTURE

Esferas de contato de oito pontos

OVERALL OD

2,080.006 mm

OVERALL ID

1,657.299 mm

OVERALL HEIGHT

142.011 mm

GEAR

Engrenagem interna

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	16277001
Certified interchangeable with	Kaydon 16277001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	6PGUC3VWGR6G6FZIVSNTJQWDB6
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	16277001
Bearing structure	Esferas de contato de oito pontos
Gear arrangement	Engrenagem interna
DIMENSION	
Overall outside diameter (Do)	81.890 in Metric reference: aproximadamente 2.080 mm
Overall inside diameter (di)	65.248 in Metric reference: aproximadamente 1.657,3 mm
Inner ring body ID (dr)	67.520 in Metric reference: aproximadamente 1.715 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	5.591 in Metric reference: aproximadamente 142,01 mm
Assembly weight (G)	2460 lb Metric reference: aproximadamente 1.115,837 kg
MOUNTING	
Outer ring bolt circle (Lo)	78.740 in Metric reference: aproximadamente 2.000 mm
Inner ring bolt circle (Li)	70.866 in Metric reference: aproximadamente 1.800 mm
GEAR	
Gear pitch diameter (D2)	65.669 in Metric reference: aproximadamente 1.667,99 mm
Gear tooth count (z2)	139
PERFORMANCE	
Maximum gear tooth load (Fz)	41140 lbf Metric reference: aproximadamente 183 kN
Moment load rating (Crm)	2534900 ft lbf Metric reference: aproximadamente 3.436,86 kN m
PERFORMANCE RATINGS	
Moment	2534900.0000000000 ft lbf Metric reference: aproximadamente 3.436,86 kN m
Gear Tooth	41140.0000000000 lbf Metric reference: aproximadamente 183 kN
MOUNTING INTERFACES	
Outer ring mounting	54 holes - 1.299
Inner ring mounting	54 holes - 1.299
GEAR INTERFACE	
Pitch system	MODULE
Module reference	12 mm
Number of teeth	139

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 6PGUC3VWGR6G6FZIVSNTJQWDB6	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/pt/produtos/rolamentos-de-giro-de-substituicao/kaydon/16277001/>

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.