

Factory-Verified Replacement

MERYDOM 16272001

Certified for interchange with Kaydon 16272001. 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

16272001

REFERENCE

Kaydon 16272001

SERIES

DT Series

STRUCTURE

Eight-point contact ball

OVERALL OD

3,652.52 mm

OVERALL ID

2,895.6 mm

OVERALL HEIGHT

280.975 mm

GEAR

External 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	16272001
Certified interchangeable with	Kaydon 16272001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ME66RPVTN3EIPRR5L4R2I67XP3
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	16272001
Bearing structure	Eight-point contact ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	143.800 in Metric reference: approximately 3,653 mm
Overall inside diameter (di)	114.000 in Metric reference: approximately 2,896 mm
Outer ring body OD (Dr)	143.800 in Metric reference: approximately 3,653 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)	11.062 in Metric reference: approximately 280.97 mm
Assembly weight (G)	14980 lb Metric reference: approximately 6,794.814 kg
MOUNTING	
Outer ring bolt circle (Lo)	136.625 in Metric reference: approximately 3,470.28 mm
Inner ring bolt circle (Li)	121.375 in Metric reference: approximately 3,082.93 mm
GEAR	
Gear pitch diameter (D2)	143.000 in Metric reference: approximately 3,632 mm
Diametral pitch (Pd)	2
Gear tooth count (z2)	286
PERFORMANCE	
Maximum gear tooth load (Fz)	85120 lbf Metric reference: approximately 378.63 kN
Moment load rating (Crm)	18293300 ft · lbf Metric reference: approximately 24,802.38 kN · m
PERFORMANCE RATINGS	
Moment	18293300.0000000000 ft · lbf Metric reference: approximately 24,802.38 kN · m
Gear Tooth	85120.0000000000 lbf Metric reference: approximately 378.63 kN
MOUNTING INTERFACES	
Outer ring mounting	72 holes - 2.156
Inner ring mounting	72 holes - 2.156
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	286
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	92
Printed page	90
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID ME66RPVTN3EIPRR5L4R2I67XP3	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 92 Printed page 90
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/16272001/>

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.