

Factory-Verified Replacement

MERYDOM 16271001

Certified for interchange with Kaydon 16271001. 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

16271001

REFERENCE

Kaydon 16271001

SERIES

DT Series

STRUCTURE

Eight-point contact ball

OVERALL OD

3,169.92 mm

OVERALL ID

2,498.725 mm

OVERALL HEIGHT

285.75 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	16271001
Certified interchangeable with	Kaydon 16271001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	VG5R4KFWCNHW63MEV5PGDCE7TF
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	16271001
Bearing structure	Eight-point contact ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	124.800 in Metric reference: approximately 3,170 mm
Overall inside diameter (di)	98.375 in Metric reference: approximately 2,498.73 mm
Outer ring body OD (Dr)	124.800 in Metric reference: approximately 3,170 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)	11.250 in Metric reference: approximately 285.8 mm
Assembly weight (G)	10500 lb Metric reference: approximately 4,762.72 kg
MOUNTING	
Outer ring bolt circle (Lo)	117.625 in Metric reference: approximately 2,987.68 mm
Inner ring bolt circle (Li)	103.625 in Metric reference: approximately 2,632.08 mm
GEAR	
Gear pitch diameter (D2)	123.200 in Metric reference: approximately 3,129 mm
Diametral pitch (Pd)	1.25
Gear tooth count (z2)	154
PERFORMANCE	
Maximum gear tooth load (Fz)	86780 lbf Metric reference: approximately 386.02 kN
Moment load rating (Crm)	14639200 ft · lbf Metric reference: approximately 19,848.09 kN · m
PERFORMANCE RATINGS	
Moment	14639200.0000000000 ft · lbf Metric reference: approximately 19,848.09 kN · m
Gear Tooth	86780.0000000000 lbf Metric reference: approximately 386.02 kN
MOUNTING INTERFACES	
Outer ring mounting	72 holes - 1.875
Inner ring mounting	72 holes - 1.875
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	1.25 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	20.32 mm
Number of teeth	154
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 VG5R4KFWCNHW63MEV5PGDCE7TF	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/16271001/>

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.