

Factory-Verified Replacement

MERYDOM 16269001

Certified for interchange with Kaydon 16269001. 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

16269001

REFERENCE

Kaydon 16269001

SERIES

DT Series

STRUCTURE

Eight-point contact ball

OVERALL OD

2,406.447 mm

OVERALL ID

1,835.15 mm

OVERALL HEIGHT

231.775 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	16269001
Certified interchangeable with	Kaydon 16269001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	MRRMXLM55PYZOX7OYXPYQ6LIF2
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	16269001
Bearing structure	Eight-point contact ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	94.742 in Metric reference: approximately 2,406.45 mm
Overall inside diameter (di)	72.250 in Metric reference: approximately 1,835.2 mm
Outer ring body OD (Dr)	92.500 in Metric reference: approximately 2,350 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)	9.125 in Metric reference: approximately 231.78 mm
Assembly weight (G)	5560 lb Metric reference: approximately 2,521.974 kg
MOUNTING	
Outer ring bolt circle (Lo)	89.750 in Metric reference: approximately 2,279.7 mm
Inner ring bolt circle (Li)	75.250 in Metric reference: approximately 1,911.4 mm
GEAR	
Gear pitch diameter (D2)	94.000 in Metric reference: approximately 2,388 mm
Diametral pitch (Pd)	2
Gear tooth count (z2)	188
PERFORMANCE	
Maximum gear tooth load (Fz)	55490 lbf Metric reference: approximately 246.83 kN
Moment load rating (Crm)	8669000 ft lbf Metric reference: approximately 11,753.59 kN m
PERFORMANCE RATINGS	
Moment	8669000.0000000000 ft lbf Metric reference: approximately 11,753.59 kN m
Gear Tooth	55490.0000000000 lbf Metric reference: approximately 246.83 kN
MOUNTING INTERFACES	
Outer ring mounting	60 holes - 1.625
Inner ring mounting	68 holes - 1.625
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	188
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 MRRMXLM55PYZOX7OYXPYQ6LIF2	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/16269001/>

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.