

Factory-Verified Replacement

MERYDOM 16273001

Certified for interchange with Kaydon 16273001. 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

16273001

REFERENCE

Kaydon 16273001

SERIES

DT Series

STRUCTURE

Eight-point contact ball

OVERALL OD

4,572 mm

OVERALL ID

3,810 mm

OVERALL HEIGHT

269.875 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	16273001
Certified interchangeable with	Kaydon 16273001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	SSB35ZGT32663MUQSKEOEJRY5S
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	16273001
Bearing structure	Eight-point contact ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Do)	180.000 in Metric reference: approximately 4,572 mm
Overall inside diameter (di)	150.000 in Metric reference: approximately 3,810 mm
Outer ring body OD (Dr)	175.250 in Metric reference: approximately 4,451.4 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)	10.625 in Metric reference: approximately 269.88 mm
Assembly weight (G)	22100 lb Metric reference: approximately 10,024.391 kg
MOUNTING	
Outer ring bolt circle (Lo)	170.000 in Metric reference: approximately 4,318 mm
Inner ring bolt circle (Li)	156.250 in Metric reference: approximately 3,968.8 mm
GEAR	
Gear pitch diameter (D2)	178.000 in Metric reference: approximately 4,521 mm
Diametral pitch (Pd)	1
Gear tooth count (z2)	178
PERFORMANCE	
Maximum gear tooth load (Fz)	129080 lbf Metric reference: approximately 574.18 kN
Moment load rating (Crm)	18000000 ft · lbf Metric reference: approximately 24,404.72 kN · m
PERFORMANCE RATINGS	
Moment	18000000.0000000000 ft · lbf Metric reference: approximately 24,404.72 kN · m
Gear Tooth	129080.0000000000 lbf Metric reference: approximately 574.18 kN
MOUNTING INTERFACES	
Outer ring mounting	80 holes - 1.875
Inner ring mounting	80 holes - 1.875
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	1 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	25.4 mm
Number of teeth	178
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 SSB35ZGT32663MUQSKEOEJRY5S	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/16273001/>

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.