

Factory-Verified Replacement

MERYDOM 16280001

Certified for interchange with Kaydon 16280001. 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

16280001

REFERENCE

Kaydon 16280001

SERIES

DT Series

STRUCTURE

Eight-point contact ball

OVERALL OD

3,073.4 mm

OVERALL ID

2,499.36 mm

OVERALL HEIGHT

222.25 mm

GEAR

Internal 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	16280001
Certified interchangeable with	Kaydon 16280001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	6GP4D4LJSKPKY53RZND7DVSZVD
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	16280001
Bearing structure	Eight-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	121.000 in Metric reference: approximately 3,073 mm
Overall inside diameter (di)	98.400 in Metric reference: approximately 2,499 mm
Inner ring body ID (dr)	102.250 in Metric reference: approximately 2,597.2 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)	8.750 in Metric reference: approximately 222.3 mm
Assembly weight (G)	7440 lb Metric reference: approximately 3,374.727 kg
MOUNTING	
Outer ring bolt circle (Lo)	117.000 in Metric reference: approximately 2,972 mm
Inner ring bolt circle (Li)	105.000 in Metric reference: approximately 2,667 mm
GEAR	
Gear pitch diameter (D2)	100.000 in Metric reference: approximately 2,540 mm
Diametral pitch (Pd)	1.25
Gear tooth count (z2)	125
PERFORMANCE	
Maximum gear tooth load (Fz)	106940 lbf Metric reference: approximately 475.69 kN
Moment load rating (Crm)	8751800 ft lbf Metric reference: approximately 11,865.85 kN m
PERFORMANCE RATINGS	
Moment	8751800.0000000000 ft lbf Metric reference: approximately 11,865.85 kN m
Gear Tooth	106940.0000000000 lbf Metric reference: approximately 475.69 kN
MOUNTING INTERFACES	
Outer ring mounting	72 holes - 1.625
Inner ring mounting	72 holes - 1.625
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	125
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 6GP4D4LJSKPKY53RZND7DVSZVD	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/products/slewing-bearing-replacements/kaydon/16280001/>

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.