

Factory-Verified Replacement

MERYDOM 16283001

Certified for interchange with Kaydon 16283001. 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

16283001

REFERENCE

Kaydon 16283001

SERIES

DT Series

STRUCTURE

Eight-point contact ball

OVERALL OD

755.65 mm

OVERALL ID

472.948 mm

OVERALL HEIGHT

177.8 mm

GEAR

Ungeared

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	16283001
Certified interchangeable with	Kaydon 16283001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	XKXJYH675GQXSALURUQ5L5WBOG
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	16283001
Bearing structure	Eight-point contact ball
Gear arrangement	Ungeared
DIMENSION	
Overall outside diameter (Do)	29.750 in Metric reference: approximately 755.7 mm
Overall inside diameter (di)	18.620 in Metric reference: approximately 472.9 mm
Overall height (H)	7.000 in Metric reference: approximately 178 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)	
Assembly weight (G)	645 lb Metric reference: approximately 292.567 kg
MOUNTING	
Outer ring bolt circle (Lo)	27.875 in Metric reference: approximately 708.03 mm
Inner ring bolt circle (Li)	20.375 in Metric reference: approximately 517.53 mm
PERFORMANCE	
Moment load rating (Crm)	363100 ft lbf Metric reference: approximately 492.3 kN m
PERFORMANCE RATINGS	
Moment	363100.0000000000 ft lbf Metric reference: approximately 492.3 kN m
MOUNTING INTERFACES	
Outer ring mounting	34 holes - 0.813
Inner ring mounting	32 holes - 0.813
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	88
Printed page	86
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID XKXJYH675GQXSALURUQ5L5WBOG	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 88 Printed page 86
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/16283001/>

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.