

Factory-Verified Replacement

MERYDOM 16281001

Certified for interchange with Kaydon 16281001. 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

16281001

REFERENCE

Kaydon 16281001

SERIES

DT Series

STRUCTURE

Esferas de contato de oito pontos

OVERALL OD

3,581.4 mm

OVERALL ID

2,919.501 mm

OVERALL HEIGHT

283.972 mm

GEAR

Engrenagem interna

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	16281001
Certified interchangeable with	Kaydon 16281001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	PQ2UOJNRIQZHQERCB7SNRMCT4T
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	16281001
Bearing structure	Esferas de contato de oito pontos
Gear arrangement	Engrenagem interna
DIMENSION	
Overall outside diameter (Do)	141.000 in Metric reference: aproximadamente 3.581 mm
Overall inside diameter (di)	114.941 in Metric reference: aproximadamente 2.919,5 mm
Inner ring body ID (dr)	120.710 in Metric reference: aproximadamente 3.066 mm

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DIMENSION (CONTINUED)	
Overall height (H)	11.180 in Metric reference: aproximadamente 284 mm
Assembly weight (G)	14850 lb Metric reference: aproximadamente 6.735,847 kg
MOUNTING	
Outer ring bolt circle (Lo)	133.661 in Metric reference: aproximadamente 3.394,99 mm
Inner ring bolt circle (Li)	124.252 in Metric reference: aproximadamente 3.156 mm
GEAR	
Gear pitch diameter (D2)	116.221 in Metric reference: aproximadamente 2.952,01 mm
Gear tooth count (z2)	165
PERFORMANCE	
Maximum gear tooth load (Fz)	155340 lbf Metric reference: aproximadamente 690,99 kN
Moment load rating (Crm)	12625000 ft lbf Metric reference: aproximadamente 17.117,2 kN m
PERFORMANCE RATINGS	
Moment	12625000.0000000000 ft lbf Metric reference: aproximadamente 17.117,2 kN m
Gear Tooth	155340.0000000000 lbf Metric reference: aproximadamente 690,99 kN
MOUNTING INTERFACES	
Outer ring mounting	90 holes - 1.625
Inner ring mounting	90 holes - 1.625
GEAR INTERFACE	
Pitch system	MODULE
Module reference	18 mm
Number of teeth	165

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.

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 PQ2UOJNRIQZHQERCB7SNRMCT4T	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/pt/produtos/rolamentos-de-giro-de-substituicao/kaydon/16281001/>

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.