

Factory-Verified Replacement

MERYDOM 16378001

Certified for interchange with Kaydon 16378001. 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

16378001

REFERENCE

Kaydon 16378001

SERIES

TR Series

STRUCTURE

s ral makaral

OVERALL OD

1,790.7 mm

OVERALL ID

1,275.08 mm

OVERALL HEIGHT

218.948 mm

GEAR

ten di li

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	16378001
Certified interchangeable with	Kaydon 16378001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	G4QZSV7NSLC3MIZPCAYRBDI5QS
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	TR Series
Reference model	16378001
Bearing structure	s ral makaral
Gear arrangement	ten di li
DIMENSION	
Overall outside diameter (Do)	70.500 in Metric reference: yakla k 1 791 mm
Overall inside diameter (di)	50.200 in Metric reference: yakla k 1 275 mm
Outer ring inner diameter (Di)	59.800 in Metric reference: yakla k 1 519 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Inner ring outer diameter (do)	60.220 in Metric reference: yakla k 1 529,6 mm
Inner ring body ID (dr)	52.250 in Metric reference: yakla k 1 327,2 mm
Overall height (H)	8.620 in Metric reference: yakla k 218,9 mm
Assembly weight (G)	3550 lb Metric reference: yakla k 1 610,253 kg
MOUNTING	
Outer ring bolt circle (Lo)	67.625 in Metric reference: yakla k 1 717,68 mm
Inner ring bolt circle (Li)	55.000 in Metric reference: yakla k 1 397 mm
GEAR	
Gear pitch diameter (D2)	51.000 in Metric reference: yakla k 1 295 mm
Diametral pitch (Pd)	2
Gear tooth count (z2)	102
PERFORMANCE	
Maximum gear tooth load (Fz)	56440 lbf Metric reference: yakla k 251,06 kN
Moment load rating (Crm)	3514400 ft lbf Metric reference: yakla k 4 764,89 kN m
PERFORMANCE RATINGS	
Moment	3514400.0000000000 ft lbf Metric reference: yakla k 4 764,89 kN m
Gear Tooth	56440.0000000000 lbf Metric reference: yakla k 251,06 kN
MOUNTING INTERFACES	
Outer ring mounting	48 holes - 1 1/2-6
Inner ring mounting	48 holes - 1.563

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GEAR INTERFACE	
Pitch system	DP
Diametral pitch	2 DP
Module reference	12.7 mm
Number of teeth	102
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	108
Printed page	106
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID G4QZSV7NSLC3MIZPCAYRBDI5QS	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 108 Printed page 106
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

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Product page: <https://rotnex.com/tr/urunler/muadil-doner-tabla-rulmanlari/kaydon/16378001/>

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.