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	REFERENCE
16378001	**Kaydon 16378001**
SERIES	STRUCTURE
TR Series	**Three-row roller**
OVERALL OD	OVERALL ID
1,790.7 mm	**1,275.08 mm**
OVERALL HEIGHT	GEAR
218.948 mm	**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	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	Three-row roller
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	70.500 in | Metric reference: approximately 1,791 mm
Overall inside diameter (di)	50.200 in | Metric reference: approximately 1,275 mm
Outer ring inner diameter (Di)	59.800 in | Metric reference: approximately 1,519 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Inner ring outer diameter (do)	60.220 in | Metric reference: approximately 1,529.6 mm
Inner ring body ID (dr)	52.250 in | Metric reference: approximately 1,327.2 mm
Overall height (H)	8.620 in | Metric reference: approximately 218.9 mm
Assembly weight (G)	3550 lb | Metric reference: approximately 1,610.253 kg
MOUNTING	
Outer ring bolt circle (Lo)	67.625 in | Metric reference: approximately 1,717.68 mm
Inner ring bolt circle (Li)	55.000 in | Metric reference: approximately 1,397 mm
GEAR	
Gear pitch diameter (D2)	51.000 in | Metric reference: approximately 1,295 mm
Diametral pitch (Pd)	2
Gear tooth count (z2)	102
PERFORMANCE	
Maximum gear tooth load (Fz)	56440 lbf | Metric reference: approximately 251.06 kN
Moment load rating (Crm)	3514400 ft lbf | Metric reference: approximately 4,764.89 kN m
PERFORMANCE RATINGS	
Moment	3514400.0000000000 ft lbf | Metric reference: approximately 4,764.89 kN m
Gear Tooth	56440.0000000000 lbf | Metric reference: approximately 251.06 kN
MOUNTING INTERFACES	
Outer ring mounting	48 holes - 1 1/2-6
Inner ring mounting	48 holes - 1.563

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	
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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: https://rotnex.com/products/slewing-bearing-replacements/kaydon/16378001/