

Factory-Verified Replacement

MERYDOM 16383001

Certified for interchange with Kaydon 16383001. 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

16383001

REFERENCE

Kaydon 16383001

SERIES

TR Series

STRUCTURE

Three-row roller

OVERALL OD

3,950.005 mm

OVERALL ID

3,336.011 mm

OVERALL HEIGHT

229.997 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	16383001
Certified interchangeable with	Kaydon 16383001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	6RQFMPTQO4EBQUQCFQTAKDNKHA
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	16383001
Bearing structure	Three-row roller
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	155.512 in Metric reference: approximately 3,950 mm
Overall inside diameter (di)	131.339 in Metric reference: approximately 3,336.01 mm
Outer ring inner diameter (Di)	143.307 in Metric reference: approximately 3,640 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)	
Inner ring outer diameter (do)	143.701 in Metric reference: approximately 3,650.01 mm
Inner ring body ID (dr)	133.701 in Metric reference: approximately 3,396.01 mm
Overall height (H)	9.055 in Metric reference: approximately 230 mm
Assembly weight (G)	10550 lb Metric reference: approximately 4,785.4 kg
MOUNTING	
Outer ring bolt circle (Lo)	151.969 in Metric reference: approximately 3,860.01 mm
Inner ring bolt circle (Li)	137.402 in Metric reference: approximately 3,490.01 mm
GEAR	
Gear pitch diameter (D2)	132.284 in Metric reference: approximately 3,360.01 mm
Gear tooth count (z2)	280
PERFORMANCE	
Maximum gear tooth load (Fz)	59840 lbf Metric reference: approximately 266.18 kN
Moment load rating (Crm)	18616000 ft lbf Metric reference: approximately 25,239.91 kN m
PERFORMANCE RATINGS	
Moment	18616000.0000000000 ft lbf Metric reference: approximately 25,239.91 kN m
Gear Tooth	59840.0000000000 lbf Metric reference: approximately 266.18 kN
MOUNTING INTERFACES	
Outer ring mounting	96 holes - 1.535
Inner ring mounting	96 holes - 1.535
GEAR INTERFACE	
Pitch system	MODULE

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	12 mm
Number of teeth	280
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 6RQFMPTQO4EBQUQCFQTAKDNKHA	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/16383001/>

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.