Factory-Verified Replacement

MERYDOM 16381001

Certified for interchange with Kaydon 16381001. 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
16381001	**Kaydon 16381001**
SERIES	STRUCTURE
TR Series	**Three-row roller**
OVERALL OD	OVERALL ID
3,069.996 mm	**2,464.003 mm**
OVERALL HEIGHT	GEAR
348.005 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	16381001
Certified interchangeable with	Kaydon 16381001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	YJMHX3CHKNMKSWELPVRJGL2MSL
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	16381001
Bearing structure	Three-row roller
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Do)	120.866 in | Metric reference: approximately 3,070 mm
Overall inside diameter (di)	97.008 in | Metric reference: approximately 2,464 mm
Outer ring inner diameter (Di)	108.740 in | Metric reference: approximately 2,762 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)	109.291 in | Metric reference: approximately 2,775.99 mm
Inner ring body ID (dr)	97.008 in | Metric reference: approximately 2,464 mm
Overall height (H)	13.701 in | Metric reference: approximately 348.01 mm
Assembly weight (G)	10820 lb | Metric reference: approximately 4,907.869 kg
MOUNTING	
Outer ring bolt circle (Lo)	117.717 in | Metric reference: approximately 2,990.01 mm
Inner ring bolt circle (Li)	104.724 in | Metric reference: approximately 2,659.99 mm
GEAR	
Gear pitch diameter (D2)	97.874 in | Metric reference: approximately 2,486 mm
Gear tooth count (z2)	113
PERFORMANCE	
Maximum gear tooth load (Fz)	143850 lbf | Metric reference: approximately 639.88 kN
Moment load rating (Crm)	10642000 ft lbf | Metric reference: approximately 14,428.61 kN m
PERFORMANCE RATINGS	
Moment	10642000.0000000000 ft lbf | Metric reference: approximately 14,428.61 kN m
Gear Tooth	143850.0000000000 lbf | Metric reference: approximately 639.88 kN
MOUNTING INTERFACES	
Outer ring mounting	72 holes - 1.535
Inner ring mounting	72 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	22 mm
Number of teeth	113
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

YJMHX3CHKNMKSWELPVRJGL2MSL

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/16381001/