Factory-Verified Replacement

MERYDOM 16322001

Certified for interchange with Kaydon 16322001. 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
16322001	**Kaydon 16322001**
SERIES	STRUCTURE
XR Series	**Cross roller**
OVERALL OD	OVERALL ID
1,174.75 mm	**869.95 mm**
OVERALL HEIGHT	GEAR
107.95 mm	**Ungeared**

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	16322001
Certified interchangeable with	Kaydon 16322001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	TAR4R3ABTWE4N37GCNBWPZ3A6H
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	XR Series
Reference model	16322001
Bearing structure	Cross roller
Gear arrangement	Ungeared
DIMENSION	
Overall outside diameter (Do)	46.250 in | Metric reference: approximately 1,174.8 mm
Overall inside diameter (di)	34.250 in | Metric reference: approximately 870 mm
Inner ring body ID (dr)	34.380 in | Metric reference: approximately 873.3 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)	
Overall height (H)	4.250 in | Metric reference: approximately 108 mm
Assembly weight (G)	765 lb | Metric reference: approximately 346.998 kg
MOUNTING	
Outer ring bolt circle (Lo)	44.000 in | Metric reference: approximately 1,118 mm
Inner ring bolt circle (Li)	36.250 in | Metric reference: approximately 920.8 mm
PERFORMANCE	
Moment load rating (Crm)	425900 ft lbf | Metric reference: approximately 577.44 kN m
PERFORMANCE RATINGS	
Moment	425900.0000000000 ft lbf | Metric reference: approximately 577.44 kN m
Dynamic Radial	235420.0000000000 lbf | Metric reference: approximately 1,047.2 kN | L10: 1,000,000 revolutions | Not simultaneous with other listed dynamic ratings
Dynamic Thrust	270010.0000000000 lbf | Metric reference: approximately 1,201.06 kN | L10: 1,000,000 revolutions | Not simultaneous with other listed dynamic ratings
Dynamic Moment	425900.0000000000 ft lbf | Metric reference: approximately 577.44 kN m | L10: 1,000,000 revolutions | Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	28 holes - 1-8
Inner ring mounting	28 holes - 1.063
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf

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 (CONTINUED)	
PDF page	98
Printed page	96
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID

TAR4R3ABTWE4N37GCNBWPZ3A6H

SOURCE DOCUMENT

KAYDON-CAT390

SOURCE FILE

Kaydon_Catalog_390.pdf

SOURCE LOCATION

PDF page 98 | Printed page 96

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/16322001/