

Factory-Verified Replacement

MERYDOM 16324001

Certified for interchange with Kaydon 16324001. 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

16324001

REFERENCE

Kaydon 16324001

SERIES

XR Series

STRUCTURE

Cross roller

OVERALL OD

2,159 mm

OVERALL ID

1,879.6 mm

OVERALL HEIGHT

95.25 mm

GEAR

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	16324001
Certified interchangeable with	Kaydon 16324001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5IQLNXCGDDAER6BU45KAFEL6HD
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	16324001
Bearing structure	Cross roller
Gear arrangement	Ungeared
DIMENSION	
Overall outside diameter (Do)	85.000 in Metric reference: approximately 2,159 mm
Overall inside diameter (di)	74.000 in Metric reference: approximately 1,880 mm
Outer ring body OD (Dr)	84.880 in Metric reference: approximately 2,156 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 body ID (dr)	74.120 in Metric reference: approximately 1,882.6 mm
Overall height (H)	3.750 in Metric reference: approximately 95.3 mm
Assembly weight (G)	1190 lb Metric reference: approximately 539.775 kg
MOUNTING	
Outer ring bolt circle (Lo)	83.000 in Metric reference: approximately 2,108 mm
Inner ring bolt circle (Li)	76.000 in Metric reference: approximately 1,930 mm
PERFORMANCE	
Moment load rating (Crm)	956430 ft lbf Metric reference: approximately 1,296.74 kN m
PERFORMANCE RATINGS	
Moment	956430.0000000000 ft lbf Metric reference: approximately 1,296.74 kN m
Dynamic Radial	267330.0000000000 lbf Metric reference: approximately 1,189.14 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Thrust	300410.0000000000 lbf Metric reference: approximately 1,336.29 kN L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
Dynamic Moment	956430.0000000000 ft lbf Metric reference: approximately 1,296.74 kN m L10: 1,000,000 revolutions Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	42 holes - 0.938
Inner ring mounting	42 holes - 0.938
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390

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)	
Source file	Kaydon_Catalog_390.pdf
PDF page	98
Printed page	96
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID 5IQLNXCGDDAER6BU45KAFEL6HD	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/16324001/>

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.