

Factory-Verified Replacement

MERYDOM 16314001

Certified for interchange with Kaydon 16314001. 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

16314001

REFERENCE

Kaydon 16314001

SERIES

XT Series

STRUCTURE

Esferas de contato de quatro pontos

OVERALL OD

3,412.007 mm

OVERALL ID

2,999.994 mm

OVERALL HEIGHT

140.005 mm

GEAR

Engrenagem externa

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	16314001
Certified interchangeable with	Kaydon 16314001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	GD2XJPBNEEN4CZ2IZYASK3MIJW
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	XT Series
Reference model	16314001
Bearing structure	Esferas de contato de quatro pontos
Gear arrangement	Engrenagem externa
DIMENSION	
Overall outside diameter (Do)	134.331 in Metric reference: aproximadamente 3.412,01 mm
Overall inside diameter (di)	118.110 in Metric reference: aproximadamente 3.000 mm
Outer ring body OD (Dr)	130.984 in Metric reference: aproximadamente 3.326,99 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)	5.512 in Metric reference: aproximadamente 140 mm
Assembly weight (G)	3600 lb Metric reference: aproximadamente 1.632,933 kg
MOUNTING	
Outer ring bolt circle (Lo)	128.976 in Metric reference: aproximadamente 3.275,99 mm
Inner ring bolt circle (Li)	120.512 in Metric reference: aproximadamente 3.061 mm
GEAR	
Gear pitch diameter (D2)	132.520 in Metric reference: aproximadamente 3.366 mm
Gear tooth count (z2)	187
PERFORMANCE	
Maximum gear tooth load (Fz)	61800 lbf Metric reference: aproximadamente 274,9 kN
Moment load rating (Crm)	2070000 ft lbf Metric reference: aproximadamente 2.806,54 kN m
PERFORMANCE RATINGS	
Moment	2070000.0000000000 ft lbf Metric reference: aproximadamente 2.806,54 kN m
Gear Tooth	61800.0000000000 lbf Metric reference: aproximadamente 274,9 kN
MOUNTING INTERFACES	
Outer ring mounting	72 holes - 1.260
Inner ring mounting	72 holes - 1.260
GEAR INTERFACE	
Pitch system	MODULE
Module reference	18 mm
Number of teeth	187

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	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	82
Printed page	80
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID**GD2XJPBNEEN4CZ2IZYASK3MIJW****SOURCE DOCUMENT****KAYDON-CAT390****SOURCE FILE****Kaydon_Catalog_390.pdf****SOURCE LOCATION****PDF page 82 | Printed page 80****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 17705201170Product page: <https://rotnex.com/pt/produtos/rolamentos-de-giro-de-substituicao/kaydon/16314001/>

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.