

Factory-Verified Replacement

MERYDOM 16297001

Certified for interchange with Kaydon 16297001. 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

16297001

REFERENCE

Kaydon 16297001

SERIES

XT Series

STRUCTURE

Sfere a quattro punti di contatto

OVERALL OD

1,381.125 mm

OVERALL ID

1,048.512 mm

OVERALL HEIGHT

127 mm

GEAR

Dentatura interna

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	16297001
Certified interchangeable with	Kaydon 16297001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	U2HJBO2OEIQSFQW5UIMPYVRQ4Y
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	16297001
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura interna
DIMENSION	
Overall outside diameter (Do)	54.375 in Metric reference: circa 1.381,13 mm
Overall inside diameter (di)	41.280 in Metric reference: circa 1.048,5 mm
Inner ring body ID (dr)	43.000 in Metric reference: circa 1.092 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	5.000 in Metric reference: circa 127 mm
Assembly weight (G)	1090 lb Metric reference: circa 494,416 kg
MOUNTING	
Outer ring bolt circle (Lo)	52.500 in Metric reference: circa 1.334 mm
Inner ring bolt circle (Li)	45.250 in Metric reference: circa 1.149,4 mm
GEAR	
Gear pitch diameter (D2)	41.600 in Metric reference: circa 1.057 mm
Diametral pitch (Pd)	2,5
Gear tooth count (z2)	104
PERFORMANCE	
Maximum gear tooth load (Fz)	24900 lbf Metric reference: circa 110,76 kN
Moment load rating (Crm)	1131000 ft lbf Metric reference: circa 1.533,43 kN m
PERFORMANCE RATINGS	
Moment	1131000.0000000000 ft lbf Metric reference: circa 1.533,43 kN m
Gear Tooth	24900.0000000000 lbf Metric reference: circa 110,76 kN
MOUNTING INTERFACES	
Outer ring mounting	48 holes - 0.938
Inner ring mounting	48 holes - 0.938
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	2.5 DP

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	10.16 mm
Number of teeth	104
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	80
Printed page	78
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID U2HJBO2OEIQSFQW5UIMPYVRQ4Y	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 80 Printed page 78
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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/kaydon/16297001/>

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.