

Factory-Verified Replacement

MERYDOM 16307001

Certified for interchange with Kaydon 16307001. 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

16307001

REFERENCE

Kaydon 16307001

SERIES

XT Series

STRUCTURE

Sfere a quattro punti di contatto

OVERALL OD

773.608 mm

OVERALL ID

482.6 mm

OVERALL HEIGHT

92.075 mm

GEAR

Dentatura esterna

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	16307001
Certified interchangeable with	Kaydon 16307001
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	LEUEOI4NB426FGVDKACXCYYI7V
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	16307001
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura esterna
DIMENSION	
Overall outside diameter (Do)	30.457 in Metric reference: circa 773,61 mm
Overall inside diameter (di)	19.000 in Metric reference: circa 483 mm
Overall height (H)	3.625 in Metric reference: circa 92,08 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Assembly weight (G)	330 lb Metric reference: circa 149,685 kg
MOUNTING	
Outer ring bolt circle (Lo)	27.375 in Metric reference: circa 695,33 mm
Inner ring bolt circle (Li)	20.625 in Metric reference: circa 523,88 mm
GEAR	
Gear pitch diameter (D2)	30.000 in Metric reference: circa 762 mm
Diametral pitch (Pd)	3,5
Gear tooth count (z2)	105
PERFORMANCE	
Maximum gear tooth load (Fz)	17400 lbf Metric reference: circa 77,4 kN
Moment load rating (Crm)	322000 ft lbf Metric reference: circa 436,57 kN m
PERFORMANCE RATINGS	
Moment	322000.0000000000 ft lbf Metric reference: circa 436,57 kN m
Gear Tooth	17400.0000000000 lbf Metric reference: circa 77,4 kN
MOUNTING INTERFACES	
Outer ring mounting	30 holes - 0.813
Inner ring mounting	29 holes - 0.813
GEAR INTERFACE	
Pitch system	DP
Diametral pitch	3.5 DP
Module reference	7.257143 mm

Complete Product Data

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GEAR INTERFACE (CONTINUED)	
Number of teeth	105
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 LEUEOI4NB426FGVDKACXCYYI7V	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 17705201170

Product page: <https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/kaydon/16307001/>

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.