

Factory-Verified Replacement

MERYDOM HT10-54P1Z

Certified for interchange with Kaydon HT10-54P1Z. 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

HT10-54P1Z

REFERENCE

Kaydon HT10-54P1Z

SERIES

HT Series

STRUCTURE

Four-point contact ball

OVERALL OD

1,524 mm

OVERALL ID

1,219.2 mm

OVERALL HEIGHT

88.9 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	HT10-54P1Z
Certified interchangeable with	Kaydon HT10-54P1Z
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	K7FTP3SQ4NWX7OOMIH6CY7YASD
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	HT Series
Reference model	HT10-54P1Z
Bearing structure	Four-point contact ball
Gear arrangement	Ungeared
DIMENSION	
Overall outside diameter (Do)	60.000 in Metric reference: approximately 1,524 mm
Overall inside diameter (di)	48.000 in Metric reference: approximately 1,219 mm
Overall height (H)	3.500 in Metric reference: approximately 89 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)	
Assembly weight (G)	809 lb Metric reference: approximately 366.956 kg
MOUNTING	
Outer ring bolt circle (Lo)	57.250 in Metric reference: approximately 1,454.2 mm
Inner ring bolt circle (Li)	50.750 in Metric reference: approximately 1,289.1 mm
PERFORMANCE	
Moment load rating (Crm)	578400 ft lbf Metric reference: approximately 784.21 kN m
PERFORMANCE RATINGS	
Moment	578400.0000000000 ft lbf Metric reference: approximately 784.21 kN m
MOUNTING INTERFACES	
Outer ring mounting	40 holes - 0.813 through, equally spaced
Inner ring mounting	44 holes - 0.813 through, equally spaced
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	
Source document code	KAYDON-CAT390
Source file	Kaydon_Catalog_390.pdf
PDF page	60
Printed page	58
Source language	EN-US
Original unit system	Inch

Source and Verification Traceability

PUBLIC RECORD UID K7FTP3SQ4NWWY7OOMIH6CY7YASD	SOURCE DOCUMENT KAYDON-CAT390
SOURCE FILE Kaydon_Catalog_390.pdf	SOURCE LOCATION PDF page 60 Printed page 58
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/ht10-54p1z/>

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.