

Factory-Verified Replacement

MERYDOM 81-40 2240/2-07600

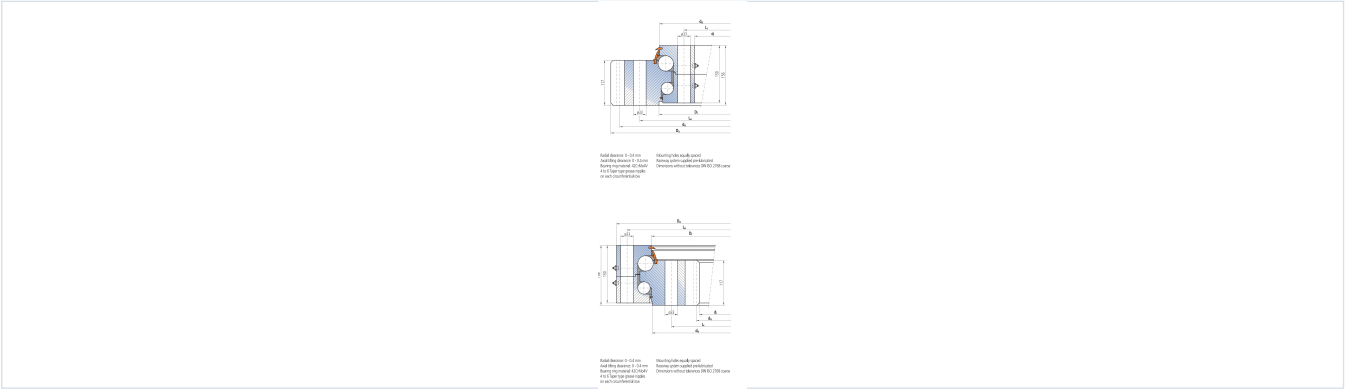
Certified for interchange with IMO 81-40 2240/2-07600.
This document consolidates the public product record,
complete published specifications, technical media,
source traceability and engineering confirmation notes.

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	REFERENCE
81-40 2240/2-07600	IMO 81-40 2240/2-07600
SERIES	STRUCTURE
840 Series	Double axial ball
OVERALL OD	OVERALL ID
2,524.8 mm	2,090 mm
OVERALL HEIGHT	GEAR
mm	External gear

Published Technical Drawing



imo-81402240207600-drawing.webp

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	81-40 2240/2-07600
Certified interchangeable with	IMO 81-40 2240/2-07600
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	KDJOMOB5IQMCK4MH2BP4PFROK
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	IMO
Reference series	840 Series
Reference model	81-40 2240/2-07600
Bearing structure	Double axial ball
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Da)	2,524.8 mm
Overall inside diameter (di)	2,090 mm
Assembly weight (G)	1,316 kg

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.

MOUNTING	
Outer ring bolt circle (La)	2,375 mm
Inner ring bolt circle (Li)	2,145 mm
Outer ring mounting-hole count (na)	48
GEAR	
Gear pitch diameter (d)	2,480 mm
Gear module (m)	16 mm
Gear tooth count (z)	155
Addendum modification coefficient (x)	0.5
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	176 kN
Permitted circumferential force, maximum (fz_max)	307 kN
Static radial load rating (Co_rad)	2,102 kN
Static axial load rating, tension (Co_ax_T)	10,580 kN
Static axial load rating, compression (Co_ax_H)	8,632 kN
Dynamic radial load rating (C_rad)	536 kN
Dynamic axial load rating, tension (C_ax_T)	1,265 kN
Dynamic axial load rating, compression (C_ax_H)	1,007 kN
PERFORMANCE RATINGS	
Fz Norm	176 kN Not simultaneous with other listed dynamic ratings
Fz Max	307 kN Not simultaneous with other listed dynamic ratings

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.

PERFORMANCE RATINGS (CONTINUED)	
Co Rad	2,102 kN Not simultaneous with other listed dynamic ratings
Co Ax T	10,580 kN Not simultaneous with other listed dynamic ratings
Co Ax H	8,632 kN Not simultaneous with other listed dynamic ratings
C Rad	536 kN Not simultaneous with other listed dynamic ratings
C Ax T	1,265 kN Not simultaneous with other listed dynamic ratings
C Ax H	1,007 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	48 holes - See source drawing
Inner ring mounting	holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	16 mm
Number of teeth	155
SOURCE TRACEABILITY	
Source document code	IMO_DOUBLE_AXIAL_EN
Source file	imo_doppel-axial-drehverbindungen-en.pdf
PDF page	3
Printed page	Not published
Source language	EN
Original unit system	Metric

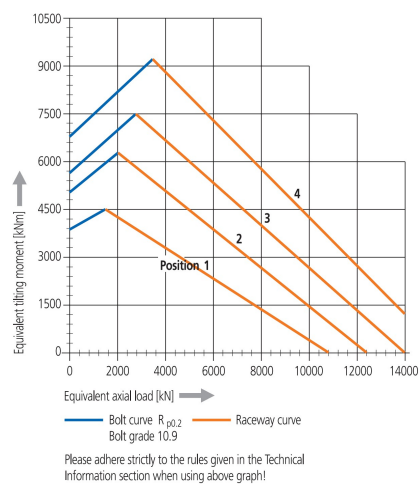
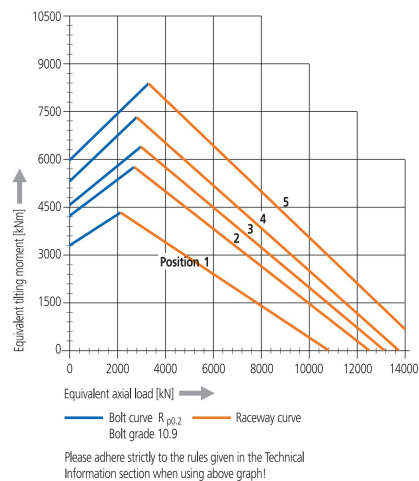
Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-81402240207600-curve.webp SHA-256: d974974b85b828218d457eb64135dd69f9e8145051cdff9b20b2fa8914808aef
Outline Drawing	imo-81402240207600-drawing.webp SHA-256: 72f379d99754407dadfdb948cf3cb00e6c5701f0c9558abe84e87dde521323c5

Published Load / Performance Chart

Use the published chart as a preliminary selection aid only. The model legend, curve family and source document must be reviewed together with the operating load case.



imo-81402240207600-curve.webp | SHA-256: d974974b85b828218d457eb64135dd69f9e8145051cdf9b20b2fa8914808aef

Engineering note: final approval must also consider mounting rigidity, bolt capacity, duty cycle, lubrication, temperature, environment and installation conditions.

Source and Verification Traceability

PUBLIC RECORD UID KDJOMOB5IQMCK4MH2BP4PFROK	SOURCE DOCUMENT IMO_DOUBLE_AXIAL_EN
SOURCE FILE imo_doppel-axial-drehverbindungen-en.pdf	SOURCE LOCATION PDF page 3 Printed page Not published
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/imo/81-40-2240-2-07600/>

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.