

Factory-Verified Replacement

MERYDOM 82-50 2559/2-06970

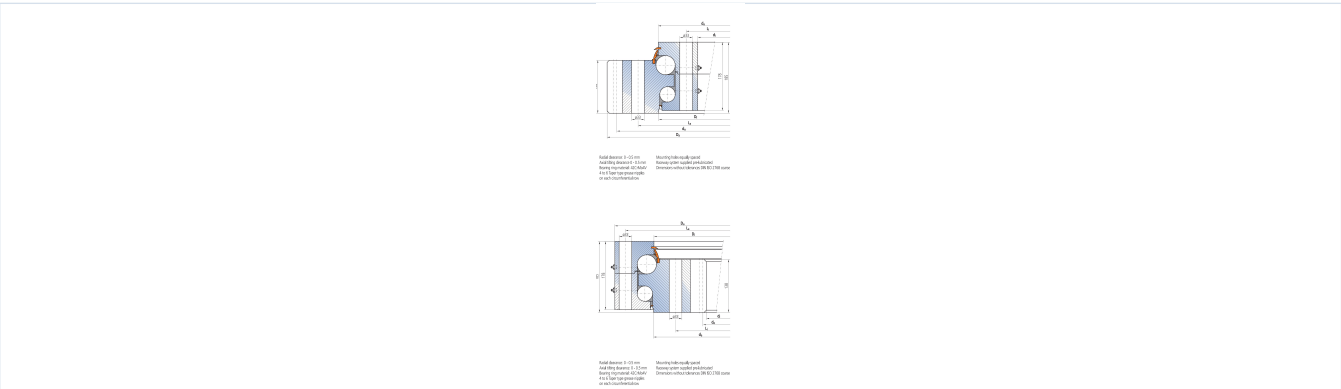
Certified for interchange with IMO 82-50 2559/2-06970.
This document consolidates the public product record,
complete published specifications, technical media,
source traceability and engineering confirmation notes.

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
82-50 2559/2-06970	IMO 82-50 2559/2-06970
SERIES	STRUCTURE
850 Series	Double axial ball
OVERALL OD	OVERALL ID
2,725 mm	2,250 mm
OVERALL HEIGHT	GEAR
mm	Internal gear

Published Technical Drawing



imo-82502559206970-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	82-50 2559/2-06970
Certified interchangeable with	IMO 82-50 2559/2-06970
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	UUB62MJHNZVXTEHH5IT27AGWAG
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	850 Series
Reference model	82-50 2559/2-06970
Bearing structure	Double axial ball
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Da)	2,725 mm
Overall inside diameter (di)	2,250 mm
Assembly weight (G)	1,892 kg

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MOUNTING	
Outer ring bolt circle (La)	2,670 mm
Inner ring bolt circle (Li)	2,410 mm
Outer ring mounting-hole count (na)	60
GEAR	
Gear pitch diameter (d)	2,268 mm
Gear module (m)	18 mm
Gear tooth count (z)	126
Addendum modification coefficient (x)	-0.5
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	240 kN
Permitted circumferential force, maximum (fz_max)	440 kN
Static radial load rating (Co_rad)	2,955 kN
Static axial load rating, tension (Co_ax_T)	14,580 kN
Static axial load rating, compression (Co_ax_H)	12,134 kN
Dynamic radial load rating (C_rad)	710 kN
Dynamic axial load rating, tension (C_ax_T)	1,678 kN
Dynamic axial load rating, compression (C_ax_H)	1,334 kN
PERFORMANCE RATINGS	
Fz Norm	240 kN Not simultaneous with other listed dynamic ratings
Fz Max	440 kN Not simultaneous with other listed dynamic ratings

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PERFORMANCE RATINGS (CONTINUED)	
Co Rad	2,955 kN Not simultaneous with other listed dynamic ratings
Co Ax T	14,580 kN Not simultaneous with other listed dynamic ratings
Co Ax H	12,134 kN Not simultaneous with other listed dynamic ratings
C Rad	710 kN Not simultaneous with other listed dynamic ratings
C Ax T	1,678 kN Not simultaneous with other listed dynamic ratings
C Ax H	1,334 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	60 holes - See source drawing
Inner ring mounting	holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	18 mm
Number of teeth	126
SOURCE TRACEABILITY	
Source document code	IMO_DOUBLE_AXIAL_EN
Source file	imo_doppel-axial-drehverbindungen-en.pdf
PDF page	5
Printed page	Not published
Source language	EN
Original unit system	Metric

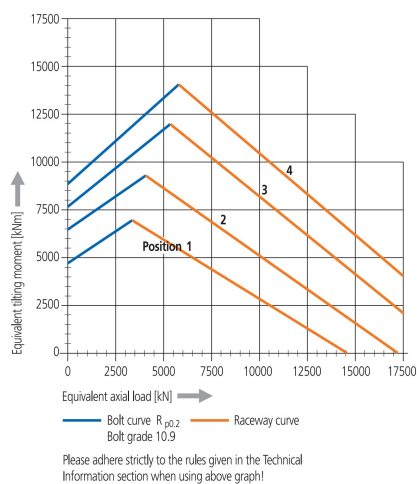
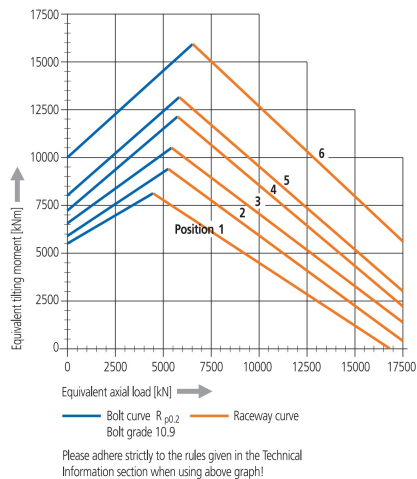
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PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-82502559206970-curve.webp SHA-256: b02cf5d77c4af528a88e30a88058b9a25031575a2fb240fd532db5fc4e d2d5b8
Outline Drawing	imo-82502559206970-drawing.webp SHA-256: 3a1bf1fdbf1455a9d10af69fa982bbfd01657504183f55da42c28c6748 f4534e

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-82502559206970-curve.webp | SHA-256: b02cf5d77c4af528a88e30a88058b9a25031575a2fb240fd532db5fc4ed2d5b8

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 UUB62MJHNZVXTEHH5IT27AGWAG	SOURCE DOCUMENT IMO_DOUBLE_AXIAL_EN
SOURCE FILE imo_doppel-axial-drehverbindungen-en.pdf	SOURCE LOCATION PDF page 5 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/82-50-2559-2-06970/>

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