

Factory-Verified Replacement

MERYDOM 12-50 2490/2-06530

Certified for interchange with IMO 12-50 2490/2-06530.
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

12-50 2490/2-06530

REFERENCE

IMO 12-50 2490/2-06530

SERIES

150 Series

STRUCTURE

Four-point contact ball

OVERALL OD

2,661 mm

OVERALL ID

2,240 mm

OVERALL HEIGHT

mm

GEAR

Internal gear

Published Technical Drawing



imo-12502490206530-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	12-50 2490/2-06530
Certified interchangeable with	IMO 12-50 2490/2-06530
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	6LS2ZF3RWHQ6ZBWRGR3T76MZCF
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	150 Series
Reference model	12-50 2490/2-06530
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Overall outside diameter (Da)	2,661 mm
Overall inside diameter (di)	2,240 mm
MOUNTING	
Outer ring bolt circle (La)	1,053 mm

Complete Product Data

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MOUNTING (CONTINUED)	
Outer ring mounting-hole count (na)	2,595
Common mounting-hole diameter (B)	2,385 mm
Inner ring bolt circle (Li)	54 mm
Inner ring mounting-hole count (ni)	2,256
GEAR	
Gear pitch diameter (d)	16 mm
Gear module (m)	141 mm
Gear tooth count (z)	-0.5
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	166 kN
Permitted circumferential force, maximum (fz_max)	290 kN
Static radial load rating (Co_rad)	4,354 kN
Static axial load rating (Co_ax)	11,652 kN
Dynamic radial load rating (C_rad)	1,250 kN
Dynamic axial load rating (C_ax)	1,256 kN
PERFORMANCE RATINGS	
Fz Norm	166 kN Not simultaneous with other listed dynamic ratings
Fz Max	290 kN Not simultaneous with other listed dynamic ratings
Co Rad	4,354 kN Not simultaneous with other listed dynamic ratings
Co Ax	11,652 kN Not simultaneous with other listed dynamic ratings

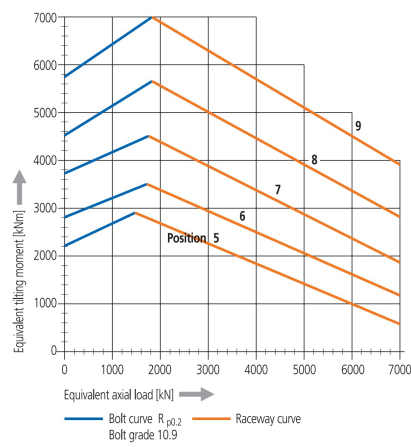
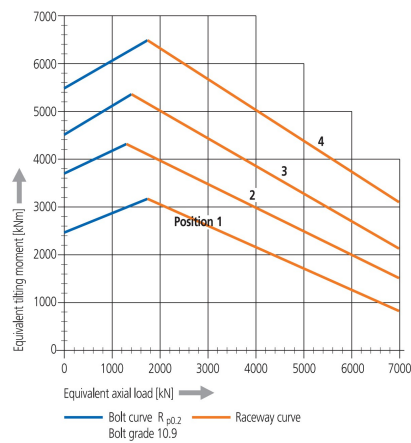
Complete Product Data

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)	
C Rad	1,250 kN Not simultaneous with other listed dynamic ratings
C Ax	1,256 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	2595 holes - B 2385 mm
Inner ring mounting	2256 holes - B 2385 mm
GEAR INTERFACE	
Pitch system	module
Module reference	141 mm
Number of teeth	0
SOURCE TRACEABILITY	
Source document code	IMO_SINGLE_ROW_BALL_EN
Source file	imo_dkugeldrehverbindungen_einreihig-en.pdf
PDF page	13
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-12502490206530-curve.webp SHA-256: fb7b69dbe418b7a5ff8c2a58674c5866dbd20c666f3eabf6662bd0db9fb076dd
Outline Drawing	imo-12502490206530-drawing.webp SHA-256: 172d7f31aafdd5324d091758b0edd2aa38df01e5b1e32b6e090e6333f73cdb16

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.



Radial clearance: 0 - 0.4 mm
Axial clearance: 0 - 0.75 mm
Bearing ring material: 42CrMo4V
9 to 12 Taper type grease nipples on circumference
Mounting holes equally spaced
Raceway system supplied pre-lubricated
Dimensions without tolerances DIN ISO 2768 coarse

imo-12502490206530-curve.webp | SHA-256: fb7b69dbe418b7a5ff8c2a58674c5866dbd20c666f3eabf6662bd0db9fb076dd

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 6LS2ZF3RWHQ6ZBWRGR3T76MZCF	SOURCE DOCUMENT IMO_SINGLE_ROW_BALL_EN
SOURCE FILE imo_dkugeldrehverbindungen_einreihig-en.pdf	SOURCE LOCATION PDF page 13 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

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/imo/12-50-2490-2-06530/>

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