

Factory-Verified Replacement

MERYDOM 31-32 2500/2-07310

Certified for interchange with IMO 31-32 2500/2-07310.
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

31-32 2500/2-07310

REFERENCE

IMO 31-32 2500/2-07310

SERIES

332 Series

STRUCTURE

Rolos de tr s carreiras

OVERALL OD

2,822.4 mm

OVERALL ID

2,282 mm

OVERALL HEIGHT

mm

GEAR

Engrenagem externa

Published Technical Drawing



imo-31322500207310-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	31-32 2500/2-07310
Certified interchangeable with	IMO 31-32 2500/2-07310
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	HAB5HJCRP6GCW6ZAXJQQ7IFCKD
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	332 Series
Reference model	31-32 2500/2-07310
Bearing structure	Rolos de tr s carreiras
Gear arrangement	Engrenagem externa
DIMENSION	
Overall outside diameter (Da)	2.822,4 mm
Overall inside diameter (di)	2.282 mm
Assembly weight (G)	2.260 kg

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MOUNTING	
Outer ring bolt circle (La)	2.655 mm
Inner ring bolt circle (Li)	2.360 mm
Outer ring mounting-hole count (na)	44
GEAR	
Gear pitch diameter (d)	2.772 mm
Gear module (m)	18 mm
Gear tooth count (z)	154
Addendum modification coefficient (x)	0,5
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	228 kN
Permitted circumferential force, maximum (fz_max)	401 kN
Static radial load rating (Co_rad)	2.085 kN
Static axial load rating, tension (Co_ax_T)	21.598 kN
Static axial load rating, compression (Co_ax_H)	12.912 kN
Dynamic radial load rating (C_rad)	1.049 kN
Dynamic axial load rating, tension (C_ax_T)	3.837 kN
Dynamic axial load rating, compression (C_ax_H)	2.717 kN
PERFORMANCE RATINGS	
Fz Norm	228 kN Not simultaneous with other listed dynamic ratings
Fz Max	401 kN Not simultaneous with other listed dynamic ratings

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PERFORMANCE RATINGS (CONTINUED)	
Co Rad	2.085 kN Not simultaneous with other listed dynamic ratings
Co Ax T	21.598 kN Not simultaneous with other listed dynamic ratings
Co Ax H	12.912 kN Not simultaneous with other listed dynamic ratings
C Rad	1.049 kN Not simultaneous with other listed dynamic ratings
C Ax T	3.837 kN Not simultaneous with other listed dynamic ratings
C Ax H	2.717 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	44 holes - See source drawing
Inner ring mounting	holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	18 mm
Number of teeth	154
SOURCE TRACEABILITY	
Source document code	IMO_TRIPLE_ROW_ROLLER_EN
Source file	imo_rollendrehverbindung-en.pdf
PDF page	7
Printed page	Not published
Source language	EN
Original unit system	Metric

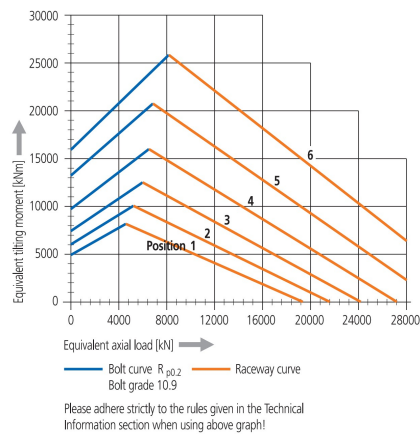
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PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-31322500207310-curve.webp SHA-256: d3524f150c542d636e2ea2d2c3710f6b7b2055e8df3d27b9b9b901ba19ca7796
Outline Drawing	imo-31322500207310-drawing.webp SHA-256: 7eb44cf5114241ded02727fbd84edd7214e6ad2cd632020596518b2a54e57ff7

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.



Bearing ring material: 42CrMo4V
7 to 9 Taper type grease nipples on each circumferential row
Mounting holes equally spaced
Raceway system supplied pre-lubricated
Dimensions without tolerances DIN ISO 2768 coarse

Clearances

Position	Radial clearance	Axial clearance
1	max. 0.33	max. 0.10
2	max. 0.33	max. 0.10
3	max. 0.40	max. 0.13
4	max. 0.50	max. 0.15
5	max. 0.50	max. 0.15
6	max. 0.50	max. 0.17

imo-31322500207310-curve.webp | SHA-256: d3524f150c542d636e2ea2d2c3710f6b7b2055e8df3d27b9b9b901ba19ca7796

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**HAB5HJCRP6GCW6ZAXJQQ7IFCKD****SOURCE DOCUMENT****IMO_TRIPLE_ROW_ROLLER_EN****SOURCE FILE****imo_rollendrehverbindung-en.pdf****SOURCE LOCATION****PDF page 7 | 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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