

Factory-Verified Replacement

MERYDOM 31-50 3150/2-07520

Certified for interchange with IMO 31-50 3150/2-07520.
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

31-50 3150/2-07520

REFERENCE

IMO 31-50 3150/2-07520

SERIES

350 Series

STRUCTURE

s ral makaral

OVERALL OD

3,571.2 mm

OVERALL ID

2,885 mm

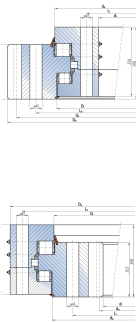
OVERALL HEIGHT

mm

GEAR

D tan di li

Published Technical Drawing



imo-31503150207520-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	31-50 3150/2-07520
Certified interchangeable with	IMO 31-50 3150/2-07520
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	HZILJVIZJXI5PZM7HNBKETK4BR
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	350 Series
Reference model	31-50 3150/2-07520
Bearing structure	s ral makaral
Gear arrangement	D tan di li
DIMENSION	
Overall outside diameter (Da)	3 571,2 mm
Overall inside diameter (di)	2 885 mm
Assembly weight (G)	5 298 kg

Complete Product Data

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MOUNTING	
Outer ring bolt circle (La)	3 350 mm
Inner ring bolt circle (Li)	2 975 mm
Outer ring mounting-hole count (na)	48
GEAR	
Gear pitch diameter (d)	3 504 mm
Gear module (m)	24 mm
Gear tooth count (z)	146
Addendum modification coefficient (x)	0,5
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	420 kN
Permitted circumferential force, maximum (fz_max)	760 kN
Static radial load rating (Co_rad)	3 894 kN
Static axial load rating, tension (Co_ax_T)	36 813 kN
Static axial load rating, compression (Co_ax_H)	19 631 kN
Dynamic radial load rating (C_rad)	1 702 kN
Dynamic axial load rating, tension (C_ax_T)	7 913 kN
Dynamic axial load rating, compression (C_ax_H)	5 838 kN
PERFORMANCE RATINGS	
Fz Norm	420 kN Not simultaneous with other listed dynamic ratings
Fz Max	760 kN Not simultaneous with other listed dynamic ratings

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PERFORMANCE RATINGS (CONTINUED)	
Co Rad	3 894 kN Not simultaneous with other listed dynamic ratings
Co Ax T	36 813 kN Not simultaneous with other listed dynamic ratings
Co Ax H	19 631 kN Not simultaneous with other listed dynamic ratings
C Rad	1 702 kN Not simultaneous with other listed dynamic ratings
C Ax T	7 913 kN Not simultaneous with other listed dynamic ratings
C Ax H	5 838 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	24 mm
Number of teeth	146
SOURCE TRACEABILITY	
Source document code	IMO_TRIPLE_ROW_ROLLER_EN
Source file	imo_rollendrehverbindung-en.pdf
PDF page	11
Printed page	Not published
Source language	EN
Original unit system	Metric

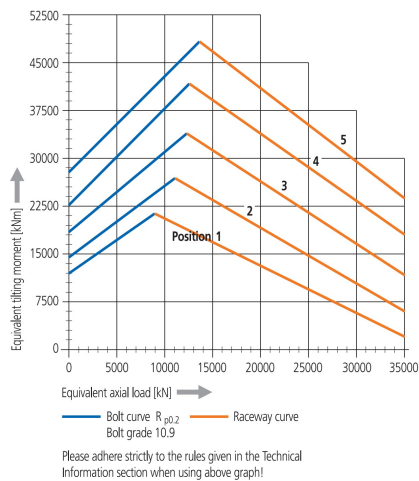
Complete Product Data

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PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-31503150207520-curve.webp SHA-256: 349b78fd17d31ca91c8b0290eca95f596c945350821c6df1c34d3e5f01362791
Outline Drawing	imo-31503150207520-drawing.webp SHA-256: 74b10d2067fc6e3149e8a36ce5e54f33b8557b3c5f8a7275fe12adcec39427f0

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
8 to 12 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. 0.5	max. 0.15
2	max. 0.5	max. 0.15
3	max. 0.5	max. 0.17
4	max. 0.6	max. 0.20
5	max. 0.6	max. 0.20

imo-31503150207520-curve.webp | SHA-256: 349b78fd17d31ca91c8b0290eca95f596c945350821c6df1c34d3e5f01362791

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 HZILJVIZJXI5PZM7HNBKETK4BR	SOURCE DOCUMENT IMO_TRIPLE_ROW_ROLLER_EN
SOURCE FILE imo_rollendrehverbindung-en.pdf	SOURCE LOCATION PDF page 11 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/tr/urunler/muadil-doner-tabla-rulmanlari/imo/31-50-3150-2-07520/>

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