

Factory-Verified Replacement

MERYDOM 12-25 1255/1-03250

Certified for interchange with IMO 12-25 1255/1-03250.
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

12-25 1255/1-03250

REFERENCE

IMO 12-25 1255/1-03250

SERIES

125 Series

STRUCTURE

Esferas de contato de quatro pontos

OVERALL OD

1,355 mm

OVERALL ID

1,110 mm

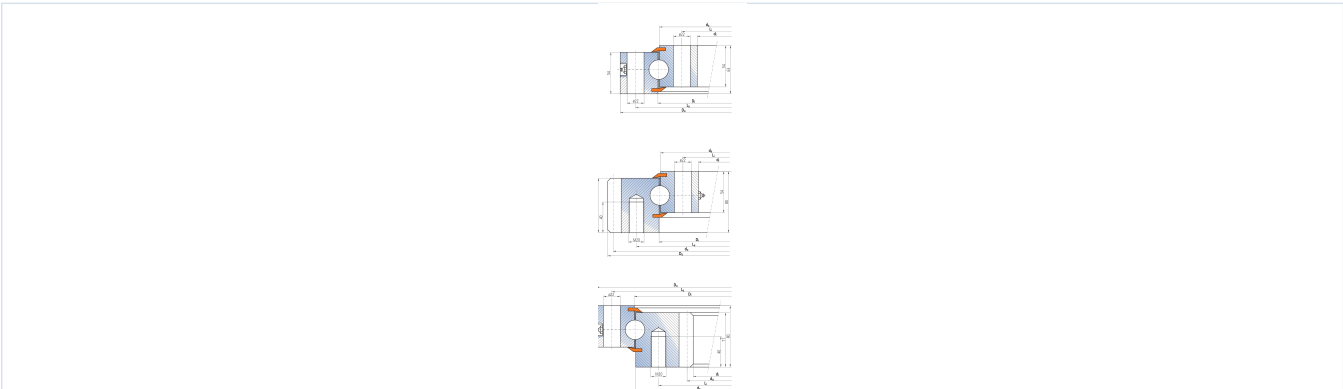
OVERALL HEIGHT

mm

GEAR

Engrenagem interna

Published Technical Drawing



imo-12251255103250-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	12-25 1255/1-03250
Certified interchangeable with	IMO 12-25 1255/1-03250
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	YGMGMGDMZSYNCGOIG4ZI3HXF3W
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	125 Series
Reference model	12-25 1255/1-03250
Bearing structure	Esferas de contato de quatro pontos
Gear arrangement	Engrenagem interna
DIMENSION	
Overall outside diameter (Da)	1.355 mm
Overall inside diameter (di)	1.110 mm
MOUNTING	
Outer ring bolt circle (La)	195 mm

Complete Product Data

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MOUNTING (CONTINUED)	
Outer ring mounting-hole count (na)	1.315
Common mounting-hole diameter (B)	42 mm
Inner ring bolt circle (Li)	1.194 mm
Inner ring mounting-hole count (ni)	42
GEAR	
Gear pitch diameter (d)	1.130 mm
Gear module (m)	10 mm
Gear tooth count (z)	113
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	47 kN
Permitted circumferential force, maximum (fz_max)	86 kN
Static radial load rating (Co_rad)	1.240 kN
Static axial load rating (Co_ax)	3.346 kN
Dynamic radial load rating (C_rad)	364 kN
Dynamic axial load rating (C_ax)	424 kN
PERFORMANCE RATINGS	
Fz Norm	47 kN Not simultaneous with other listed dynamic ratings
Fz Max	86 kN Not simultaneous with other listed dynamic ratings
Co Rad	1.240 kN Not simultaneous with other listed dynamic ratings
Co Ax	3.346 kN Not simultaneous with other listed dynamic ratings

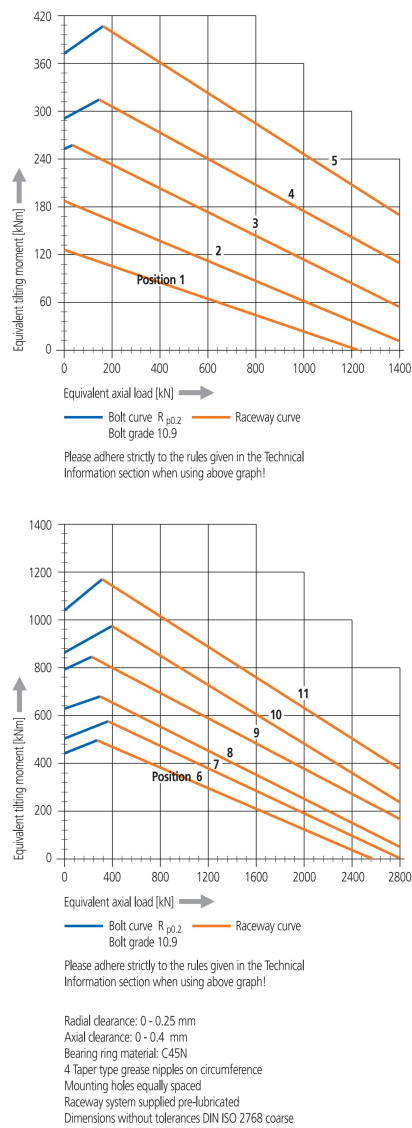
Complete Product Data

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	364 kN Not simultaneous with other listed dynamic ratings
C Ax	424 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	1315 holes - B 42 mm
Inner ring mounting	42 holes - B 42 mm
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	113
SOURCE TRACEABILITY	
Source document code	IMO_SINGLE_ROW_BALL_EN
Source file	imo_dkugeldrehverbindungen_einreihig-en.pdf
PDF page	11
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-12251255103250-curve.webp SHA-256: ef242f703ea11704bdb9793ea79efabed993f8188faac34ceb6e0c7dc04e6247
Outline Drawing	imo-12251255103250-drawing.webp SHA-256: 806f4774c02ec65b7588ba1d66881a2184d32a044cd674ef98bede5cbf53f13

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-12251255103250-curve.webp | SHA-256: ef242f703ea11704bdb9793ea79efabed993f8188faac34ceb6e0c7dc04e6247

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 YGMGMGDMZSYNCGOIG4ZI3HXF3W	SOURCE DOCUMENT IMO_SINGLE_ROW_BALL_EN
SOURCE FILE imo_dkugeldrehverbindungen_einreihig-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/pt/produtos/rolamentos-de-giro-de-substituicao/imo/12-25-1255-1-03250/>

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