

Factory-Verified Replacement

MERYDOM 12-20 0941/1-02263

Certified for interchange with IMO 12-20 0941/1-02263. 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

12-20 0941/1-02263

REFERENCE

IMO 12-20 0941/1-02263

SERIES

120 Series

STRUCTURE

D rt nokta temasl bilyal

OVERALL OD

1,016 mm

OVERALL ID

840 mm

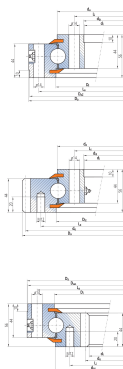
OVERALL HEIGHT

mm

GEAR

ten di li

Published Technical Drawing



imo-12200941102263-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	12-20 0941/1-02263
Certified interchangeable with	IMO 12-20 0941/1-02263
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	4UTH6I24642UUNJ4BVR4UM6AGU
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	120 Series
Reference model	12-20 0941/1-02263
Bearing structure	D rt nokta temasl bilyal
Gear arrangement	ten di li
DIMENSION	
Overall outside diameter (Da)	1 016 mm
Overall inside diameter (di)	840 mm
MOUNTING	
Outer ring bolt circle (La)	75 mm

Complete Product Data

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MOUNTING (CONTINUED)	
Outer ring mounting-hole count (na)	990
Common mounting-hole diameter (B)	44 mm
Inner ring bolt circle (Li)	905 mm
Inner ring mounting-hole count (ni)	44
GEAR	
Gear pitch diameter (d)	856 mm
Gear module (m)	8 mm
Gear tooth count (z)	107
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	28 kN
Permitted circumferential force, maximum (fz_max)	50,5 kN
Static radial load rating (Co_rad)	580 kN
Static axial load rating (Co_ax)	1 356 kN
Dynamic radial load rating (C_rad)	213 kN
Dynamic axial load rating (C_ax)	214 kN
PERFORMANCE RATINGS	
Fz Norm	28 kN Not simultaneous with other listed dynamic ratings
Fz Max	50,5 kN Not simultaneous with other listed dynamic ratings
Co Rad	580 kN Not simultaneous with other listed dynamic ratings
Co Ax	1 356 kN Not simultaneous with other listed dynamic ratings

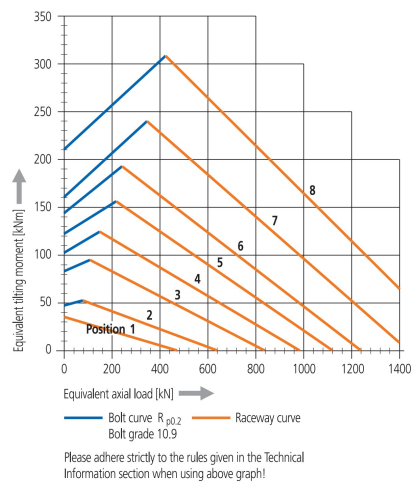
Complete Product Data

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	213 kN Not simultaneous with other listed dynamic ratings
C Ax	214 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	990 holes - B 44 mm
Inner ring mounting	44 holes - B 44 mm
GEAR INTERFACE	
Pitch system	module
Module reference	8 mm
Number of teeth	107
SOURCE TRACEABILITY	
Source document code	IMO_SINGLE_ROW_BALL_EN
Source file	imo_dkugeldrehverbindungen_einreihig-en.pdf
PDF page	9
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-12200941102263-curve.webp SHA-256: 0260cea44a56711e11de91c16ce1fe6ebf2ae9a66b01549c7456878a2c0e7c02
Outline Drawing	imo-12200941102263-drawing.webp SHA-256: cd90951201cc25f94d902bd39f73a0b149bfaa777bae09d714ed2cd82fd30b8c

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: C45N
4 Taper type grease nipples on circumference
Mounting holes equally spaced
Raceway system supplied pre-lubricated
Dimensions without tolerances DIN ISO 2768 coarse

Clearance of precision version

Position	Radial Clearance	Axial Clearance
1	max. 0.03	max. 0.03
2	max. 0.03	max. 0.03
3	max. 0.03	max. 0.03
4	max. 0.04	max. 0.04
5	max. 0.04	max. 0.04
6	max. 0.05	max. 0.05
7	max. 0.05	max. 0.05
8	max. 0.06	max. 0.06

imo-12200941102263-curve.webp | SHA-256: 0260cea44a56711e11de91c16ce1fe6ebf2ae9a66b01549c7456878a2c0e7c02

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 4UTH6I24642UUNJ4BVR4UM6AGU	SOURCE DOCUMENT IMO_SINGLE_ROW_BALL_EN
SOURCE FILE imo_dkugeldrehverbindungen_einreihig-en.pdf	SOURCE LOCATION PDF page 9 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/12-20-0941-1-02263/>

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