

Factory-Verified Replacement

MERYDOM 91-20 0941/1-07162

Certified for interchange with IMO 91-20 0941/1-07162.
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

91-20 0941/1-07162

REFERENCE

IMO 91-20 0941/1-07162

SERIES

920 Series

STRUCTURE

Ball bearing with flange rings

OVERALL OD

1,046.4 mm

OVERALL ID

834 mm

OVERALL HEIGHT

mm

GEAR

External gear

Published Technical Drawing



imo-91200941107162-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	91-20 0941/1-07162
Certified interchangeable with	IMO 91-20 0941/1-07162
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	YFLWJW23TKFII4BM5ZJZDETRBE
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	920 Series
Reference model	91-20 0941/1-07162
Bearing structure	Ball bearing with flange rings
Gear arrangement	External gear
DIMENSION	
Overall outside diameter (Da)	1,046.4 mm
Overall inside diameter (di)	834 mm
Assembly weight (G)	75 kg

Complete Product Data

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MOUNTING	
Outer ring bolt circle (La)	985 mm
Outer ring mounting-hole count (na)	20
Inner ring bolt circle (Li)	862 mm
Inner ring mounting-hole count (ni)	20
GEAR	
Gear pitch diameter (d)	1,032 mm
Gear module (m)	8 mm
Gear tooth count (z)	129
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	27.9 kN
Permitted circumferential force, maximum (fz_max)	50.3 kN
Static radial load rating (Co_rad)	269 kN
Static axial load rating (Co_ax)	630 kN
Dynamic radial load rating (C_rad)	213 kN
Dynamic axial load rating (C_ax)	214 kN
PERFORMANCE RATINGS	
Fz Norm	27.9 kN Not simultaneous with other listed dynamic ratings
Fz Max	50.3 kN Not simultaneous with other listed dynamic ratings
Co Rad	269 kN Not simultaneous with other listed dynamic ratings
Co Ax	630 kN Not simultaneous with other listed dynamic ratings

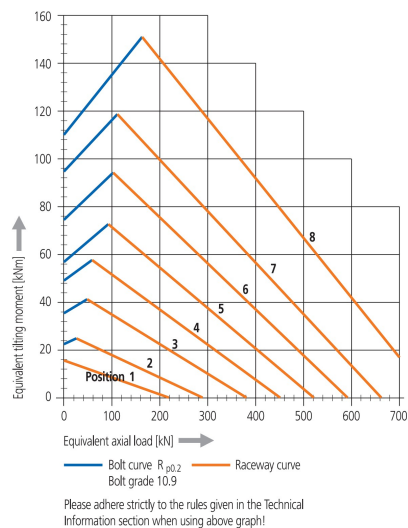
Complete Product Data

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	20 holes - See source drawing
Inner ring mounting	20 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	8 mm
Number of teeth	129
SOURCE TRACEABILITY	
Source document code	IMO_FLANGE_BALL_EN
Source file	imo_kugeldrehverbindung_mit_flanschring-en.pdf
PDF page	3
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-91200941107162-curve.webp SHA-256: 9eb3846cea7f731bd99e91eeff43b54af39d7cce067ebbb16bb0cf13ec394e60
Outline Drawing	imo-91200941107162-drawing.webp SHA-256: f02172cd47576197e27998d0b9dfad6edd07b8654087efb1ae5457428b487367

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 - 0.3 mm
Axial tilting clearance: 0 - 0.5 mm
Bearing ring material: C45N
4 Taper type grease nipples on the circumference
Mounting holes equally spaced
Raceway system supplied pre-lubricated
Dimensions without tolerances DIN ISO 2768 coarse

imo-91200941107162-curve.webp | SHA-256: 9eb3846cea7f731bd99e91eeff43b54af39d7cce067ebbb16bb0cf13ec394e60

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 YFLWJW23TKFII4BM5ZJZDETRBE	SOURCE DOCUMENT IMO_FLANGE_BALL_EN
SOURCE FILE imo_kugeldrehverbindung_mit_flanschr ing-en.pdf	SOURCE LOCATION PDF page 3 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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/imo/91-20-0941-1-07162/>

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