

Factory-Verified Replacement

MERYDOM 90-20 0741/0-07042

Certified for interchange with IMO 90-20 0741/0-07042.
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

90-20 0741/0-07042

REFERENCE

IMO 90-20 0741/0-07042

SERIES

920 Series

STRUCTURE

Ball bearing with flange rings

OVERALL OD

848 mm

OVERALL ID

634 mm

OVERALL HEIGHT

mm

GEAR

Ungeared

Published Technical Drawing



imo-90200741007042-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	90-20 0741/0-07042
Certified interchangeable with	IMO 90-20 0741/0-07042
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	NNJW7DTIDXBL5YYRIIBYZSBYM
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	90-20 0741/0-07042
Bearing structure	Ball bearing with flange rings
Gear arrangement	Ungeared
DIMENSION	
Overall outside diameter (Da)	848 mm
Overall inside diameter (di)	634 mm
Assembly weight (G)	46 kg

Complete Product Data

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MOUNTING	
Outer ring bolt circle (La)	820 mm
Outer ring mounting-hole count (na)	12
Inner ring bolt circle (Li)	662 mm
Inner ring mounting-hole count (ni)	16
PERFORMANCE	
Static radial load rating (Co_rad)	212 kN
Static axial load rating (Co_ax)	496 kN
Dynamic radial load rating (C_rad)	194 kN
Dynamic axial load rating (C_ax)	195 kN
PERFORMANCE RATINGS	
Co Rad	212 kN Not simultaneous with other listed dynamic ratings
Co Ax	496 kN Not simultaneous with other listed dynamic ratings
C Rad	194 kN Not simultaneous with other listed dynamic ratings
C Ax	195 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	12 holes - See source drawing
Inner ring mounting	16 holes - See source drawing
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	

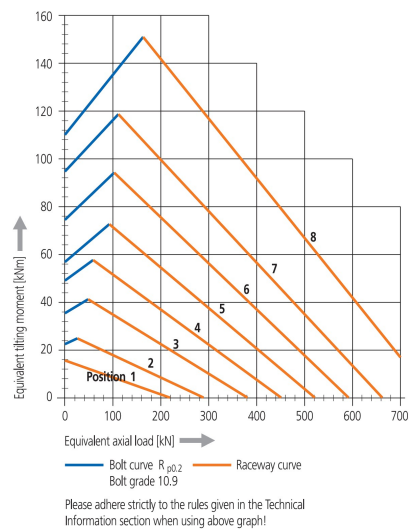
Complete Product Data

All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
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-90200741007042-curve.webp SHA-256: 9eb3846cea7f731bd99e91eeff43b54af39d7cce067ebbb16bb0cf13ec394e60
Outline Drawing	imo-90200741007042-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-90200741007042-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 NNJW7DTIDXBL5YYRIIBYZSBYM	SOURCE DOCUMENT IMO_FLANGE_BALL_EN
SOURCE FILE imo_kugeldrehverbindung_mit_flanschring-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

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/imo/90-20-0741-0-07042/>

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