

Factory-Verified Replacement

MERYDOM 10-16 0100/0-08000

Certified for interchange with IMO 10-16 0100/0-08000.
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

10-16 0100/0-08000

REFERENCE

IMO 10-16 0100/0-08000

SERIES

116 Series

STRUCTURE

Four-point contact ball

OVERALL OD

180 mm

OVERALL ID

40 mm

OVERALL HEIGHT

mm

GEAR

Ungeared

Published Technical Drawing



imo-10160100008000-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	10-16 0100/0-08000
Certified interchangeable with	IMO 10-16 0100/0-08000
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	WNZZ3QR5IAQEV7QUOH6Q5UZDSH
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	116 Series
Reference model	10-16 0100/0-08000
Bearing structure	Four-point contact ball
Gear arrangement	Ungeared
DIMENSION	
Overall outside diameter (Da)	180 mm
Overall inside diameter (di)	40 mm
Assembly weight (G)	5 kg

Complete Product Data

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MOUNTING	
Outer ring bolt circle (La)	140 mm
Outer ring mounting-hole count (na)	6
Inner ring bolt circle (Li)	60 mm
Inner ring mounting-hole count (ni)	6
PERFORMANCE	
Static radial load rating (Co_rad)	51 kN
Static axial load rating (Co_ax)	103 kN
Dynamic radial load rating (C_rad)	71 kN
Dynamic axial load rating (C_ax)	61 kN
PERFORMANCE RATINGS	
Co Rad	51 kN Not simultaneous with other listed dynamic ratings
Co Ax	103 kN Not simultaneous with other listed dynamic ratings
C Rad	71 kN Not simultaneous with other listed dynamic ratings
C Ax	61 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	6 holes - See source drawing
Inner ring mounting	6 holes - See source drawing
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	

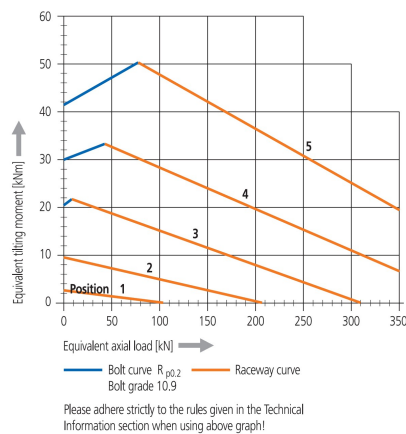
Complete Product Data

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_SINGLE_ROW_BALL_EN
Source file	imo_dkugeldrehverbindungen_einreihig-en.pdf
PDF page	3
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-10160100008000-curve.webp SHA-256: 3aee1c7d710dd16358622d99df1f600ee543a15a278637923fe4124098e28d4e
Outline Drawing	imo-10160100008000-drawing.webp SHA-256: d5b2f01a45bf14fec3565624191f8126d7139a4078633a9cb241bb73a60297f0

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 - 0.2 mm
Axial tilting clearance: 0 - 0.4 mm
Bearing ring material: C45N
1 Taper type grease nipple, form C in filling plug
Mounting holes equally spaced
Raceway system supplied pre-lubricated
Dimensions without tolerances DIN ISO 2768 coarse

imo-10160100008000-curve.webp | SHA-256: 3aee1c7d710dd16358622d99df1f600ee543a15a278637923fe4124098e28d4e

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

WNZZ3QR5IAQEV7QUOH6Q5UZDSH

SOURCE DOCUMENT

IMO_SINGLE_ROW_BALL_EN

SOURCE FILE

imo_dkugeldrehverbindungen_einreihig-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/10-16-0100-0-08000/>

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