Factory-Verified Replacement

MERYDOM 51-32 4000/2-06910

Certified for interchange with IMO 51-32 4000/2-06910. 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
51-32 4000/2-06910

REFERENCE
IMO 51-32 4000/2-06910

SERIES
532 Series

STRUCTURE
Combinazione rulli/sfere

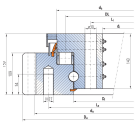
OVERALL OD
4,220.8 mm

OVERALL ID
3,808 mm

OVERALL HEIGHT
mm

GEAR
Dentatura esterna

Published Technical Drawing



imo-51324000206910-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	51-32 4000/2-06910
Certified interchangeable with	IMO 51-32 4000/2-06910
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5SYU56QISVOBDW2CBLUDIW4YUM
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	532 Series
Reference model	51-32 4000/2-06910
Bearing structure	Combinazione rulli/sfere
Gear arrangement	Dentatura esterna
DIMENSION	
Overall outside diameter (Da)	4.220,8 mm
Overall inside diameter (di)	3.808 mm
Assembly weight (G)	2.278 kg

Complete Product Data

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MOUNTING	
Outer ring bolt circle (La)	4.086 mm
Inner ring bolt circle (Li)	3.868 mm
Outer ring mounting-hole count (na)	84
GEAR	
Gear pitch diameter (d)	4.176 mm
Gear module (m)	16 mm
Gear tooth count (z)	261
Addendum modification coefficient (x)	0,5
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	165 kN
Permitted circumferential force, maximum (fz_max)	294 kN
Static radial load rating (Co_rad)	1.223 kN
Static axial load rating, tension (Co_ax_T)	36.065 kN
Static axial load rating, compression (Co_ax_H)	6.544 kN
Dynamic radial load rating (C_rad)	333 kN
Dynamic axial load rating, tension (C_ax_T)	5.273 kN
Dynamic axial load rating, compression (C_ax_H)	633 kN
PERFORMANCE RATINGS	
Fz Norm	165 kN | Not simultaneous with other listed dynamic ratings
Fz Max	294 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)	
Co Rad	1.223 kN | Not simultaneous with other listed dynamic ratings
Co Ax T	36.065 kN | Not simultaneous with other listed dynamic ratings
Co Ax H	6.544 kN | Not simultaneous with other listed dynamic ratings
C Rad	333 kN | Not simultaneous with other listed dynamic ratings
C Ax T	5.273 kN | Not simultaneous with other listed dynamic ratings
C Ax H	633 kN | Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	84 holes - See source drawing
Inner ring mounting	holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	16 mm
Number of teeth	261
SOURCE TRACEABILITY	
Source document code	IMO_ROLLER_BALL_COMBINATION_EN
Source file	imo-kombi-dv-en.pdf
PDF page	3
Printed page	Not published
Source language	EN
Original unit system	Metric

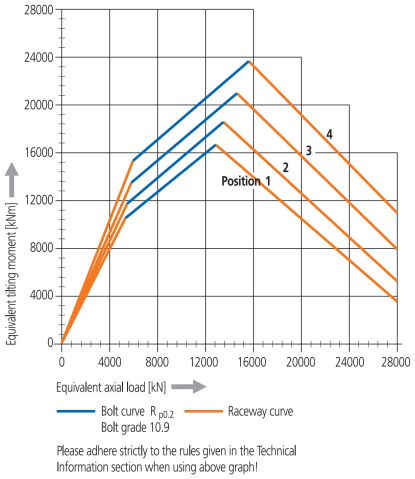
Complete Product Data

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

PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-51324000206910-curve.webp | SHA-256: a6882d488de2037274240243cea9d9b7d90291c5e540d4027fb4774d4e4c4b95
Outline Drawing	imo-51324000206910-drawing.webp | SHA-256: 9aa8739953b3592b95ad9ed7bfba0a2410aad7a1361755b36124627a5365b50c

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 - 0.32 mm
Axial clearance: 0 - 0.32 mm
Bearing ring material: 42CrMo4V
10 to 12 Taper type grease nipples on each circumferential row
Mounting holes equally spaced
Raceway system supplied pre-lubricated
Dimensions without tolerances DIN ISO 2768 coarse

imo-51324000206910-curve.webp | SHA-256: a6882d488de2037274240243cea9d9b7d90291c5e540d4027fb4774d4e4c4b95

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

5SYU56QISVOBDW2CBLUDIW4YUM

SOURCE DOCUMENT

IMO_ROLLER_BALL_COMBINATION_EN

SOURCE FILE

imo-kombi-dv-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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/imo/51-32-4000-2-06910/