

Factory-Verified Replacement

MERYDOM 51-32 3750/2-06905

Certified for interchange with IMO 51-32 3750/2-06905.
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 3750/2-06905

SERIES

532 Series

OVERALL OD

3,980.8 mm

OVERALL HEIGHT

mm

REFERENCE

IMO 51-32 3750/2-06905

STRUCTURE

Combina o de rolos e esferas

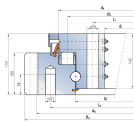
OVERALL ID

3,558 mm

GEAR

Engrenagem externa

Published Technical Drawing



imo-51323750206905-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 3750/2-06905
Certified interchangeable with	IMO 51-32 3750/2-06905
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	VXQRKJW7WD74ZXNNTIPEIGZPVV
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 3750/2-06905
Bearing structure	Combinação de rolos e esferas
Gear arrangement	Engrenagem externa
DIMENSION	
Overall outside diameter (Da)	3.980,8 mm
Overall inside diameter (di)	3.558 mm
Assembly weight (G)	2.186 kg

Complete Product Data

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MOUNTING	
Outer ring bolt circle (La)	3.846 mm
Inner ring bolt circle (Li)	3.618 mm
Outer ring mounting-hole count (na)	80
GEAR	
Gear pitch diameter (d)	3.936 mm
Gear module (m)	16 mm
Gear tooth count (z)	246
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)	1.145 kN
Static axial load rating, tension (Co_ax_T)	33.811 kN
Static axial load rating, compression (Co_ax_H)	6.130 kN
Dynamic radial load rating (C_rad)	325 kN
Dynamic axial load rating, tension (C_ax_T)	5.089 kN
Dynamic axial load rating, compression (C_ax_H)	618 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	1.145 kN Not simultaneous with other listed dynamic ratings
Co Ax T	33.811 kN Not simultaneous with other listed dynamic ratings
Co Ax H	6.130 kN Not simultaneous with other listed dynamic ratings
C Rad	325 kN Not simultaneous with other listed dynamic ratings
C Ax T	5.089 kN Not simultaneous with other listed dynamic ratings
C Ax H	618 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	80 holes - See source drawing
Inner ring mounting	holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	16 mm
Number of teeth	246
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

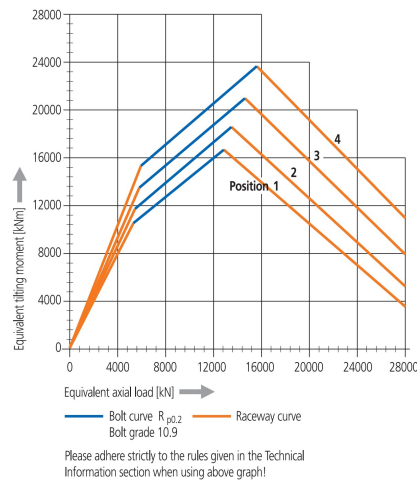
Complete Product Data

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PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-51323750206905-curve.webp SHA-256: a6882d488de2037274240243cea9d9b7d90291c5e540d4027fb4774d4e4c4b95
Outline Drawing	imo-51323750206905-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-51323750206905-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

VXQRKJW7WD74ZXNNTIPEIGZPVV

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/pt/produtos/rolamentos-de-giro-de-substituicao/imo/51-32-3750-2-06905/>

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