

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	12-32 1400/2-04953
Certified interchangeable with	IMO 12-32 1400/2-04953
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	562XDYGJRQKESHDMFCT7HNPMGX
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	OTHER_STANDARD_BALL Series
Reference model	12-32 1400/2-04953
Bearing structure	Esferas de contato de quatro pontos
Gear arrangement	Engrenagem interna
DIMENSION	
Assembly weight (G)	432 kg
MOUNTING	
Outer ring mounting-hole count (na)	48

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MOUNTING (CONTINUED)	
Inner ring mounting-hole count (ni)	48
GEAR	
Gear module (m)	14 mm
Gear tooth count (z)	85
Addendum modification coefficient (x)	-0,5
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	109 kN
Permitted circumferential force, maximum (fz_max)	183 kN
Static radial load rating (Co_rad)	1.295 kN
Static axial load rating (Co_ax)	3.464 kN
Dynamic radial load rating (C_rad)	477 kN
Dynamic axial load rating (C_ax)	556 kN
PERFORMANCE RATINGS	
Fz Norm	109 kN Not simultaneous with other listed dynamic ratings
Fz Max	183 kN Not simultaneous with other listed dynamic ratings
Co Rad	1.295 kN Not simultaneous with other listed dynamic ratings
Co Ax	3.464 kN Not simultaneous with other listed dynamic ratings
C Rad	477 kN Not simultaneous with other listed dynamic ratings
C Ax	556 kN Not simultaneous with other listed dynamic ratings

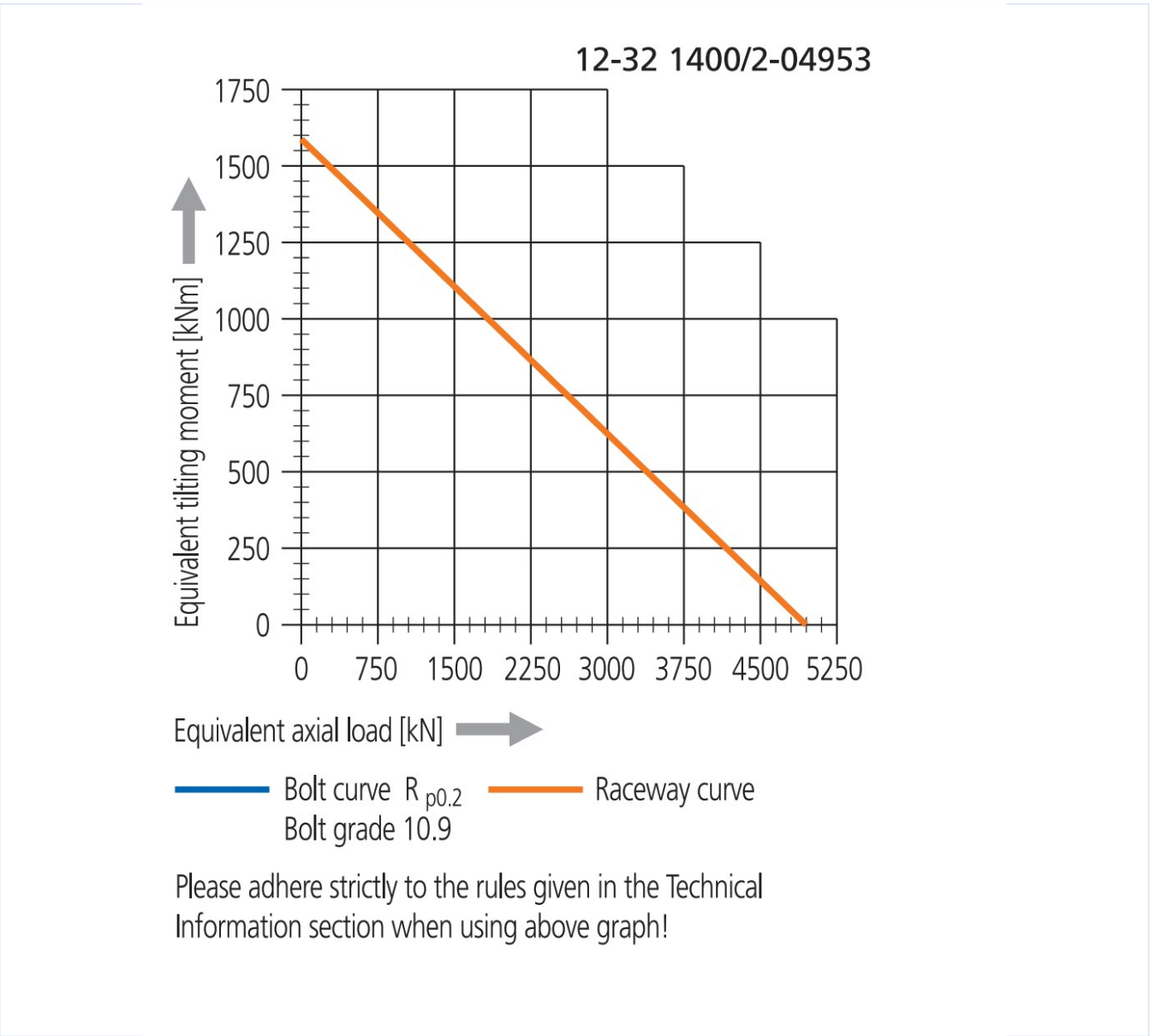
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MOUNTING INTERFACES	
Outer ring mounting	48 holes - See source drawing
Inner ring mounting	48 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	14 mm
Number of teeth	85
SOURCE TRACEABILITY	
Source document code	IMO_OTHER_STANDARD_BALL_EN
Source file	imo_weitere_standard-kugeldrehverbindungen-en.pdf
PDF page	31
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-12321400204953-curve.webp SHA-256: 839c32b4f309d650374c760b66520b686170b6687cc476aa5c71c78aea fda424
Outline Drawing	imo-12321400204953-drawing.webp SHA-256: 5804a8e8f0f60b8b78af307ab2841b5cbc8e36679be207cf009e9c0fb1 c29e22

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.



imo-12321400204953-curve.webp | SHA-256: 839c32b4f309d650374c760b66520b686170b6687cc476aa5c71c78aeafda424

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

562XDYGJRQKESHDMFCT7HNPMGX

SOURCE DOCUMENT

IMO_OTHER_STANDARD_BALL_EN

SOURCE FILE

imo_weitere_standard-kugeldrehverbindungen-en.pdf

SOURCE LOCATION

PDF page 31 | 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/12-32-1400-2-04953/>

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