

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	12-22 1131/2-01601
Certified interchangeable with	IMO 12-22 1131/2-01601
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	VR4VADDMWMIDVR3AQ6DPRTJSKX
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	12-22 1131/2-01601
Bearing structure	Sfere a quattro punti di contatto
Gear arrangement	Dentatura interna
DIMENSION	
Assembly weight (G)	127 kg
MOUNTING	
Outer ring mounting-hole count (na)	40

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MOUNTING (CONTINUED)	
Inner ring mounting-hole count (ni)	40
GEAR	
Gear module (m)	7 mm
Gear tooth count (z)	146
Addendum modification coefficient (x)	-0,5
PERFORMANCE	
Permitted circumferential force, normal (fz_norm)	28,6 kN
Permitted circumferential force, maximum (fz_max)	52 kN
Static radial load rating (Co_rad)	678 kN
Static axial load rating (Co_ax)	1.815 kN
Dynamic radial load rating (C_rad)	284 kN
Dynamic axial load rating (C_ax)	331 kN
PERFORMANCE RATINGS	
Fz Norm	28,6 kN Not simultaneous with other listed dynamic ratings
Fz Max	52 kN Not simultaneous with other listed dynamic ratings
Co Rad	678 kN Not simultaneous with other listed dynamic ratings
Co Ax	1.815 kN Not simultaneous with other listed dynamic ratings
C Rad	284 kN Not simultaneous with other listed dynamic ratings
C Ax	331 kN Not simultaneous with other listed dynamic ratings

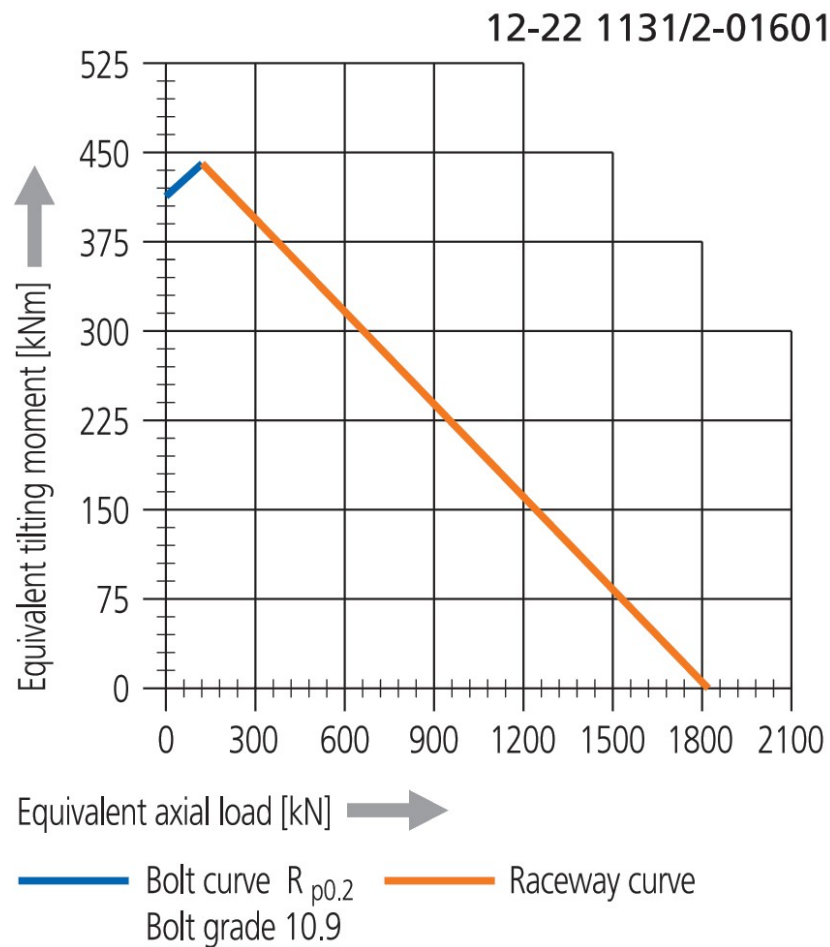
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MOUNTING INTERFACES	
Outer ring mounting	40 holes - See source drawing
Inner ring mounting	40 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	7 mm
Number of teeth	146
SOURCE TRACEABILITY	
Source document code	IMO_OTHER_STANDARD_BALL_EN
Source file	imo_weitere_standard-kugeldrehverbindungen-en.pdf
PDF page	29
Printed page	Not published
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	imo-12221131201601-curve.webp SHA-256: caec563c374e4c5f39d9241e9624edd3b3757ffbf00ae4558c1f69e691 bdbcb08
Outline Drawing	imo-12221131201601-drawing.webp SHA-256: 3ecd5ebef02ca564e9c867186c6e88012ce6887ec41f7f9520937388b1 3184c4

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.



Please adhere strictly to the rules given in the Technical Information section when using above graph!

imo-12221131201601-curve.webp | SHA-256: caec563c374e4c5f39d9241e9624edd3b3757ffb00ae4558c1f69e691bdc08

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

VR4VADDMWMIDVR3AQ6DPRTJSKX

SOURCE DOCUMENT

IMO_OTHER_STANDARD_BALL_EN

SOURCE FILE

imo_weitere_standard-kugeldrehverbindungen-en.pdf

SOURCE LOCATION

PDF page 29 | Printed page Not published

VERIFICATION

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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/12-22-1131-2-01601/>

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