

Factory-Verified Replacement

MERYDOM XU 120222

Certified for interchange with INA XU 120222. 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
XU 120222

REFERENCE
INA XU 120222

SERIES
XU Series

STRUCTURE
Cross roller

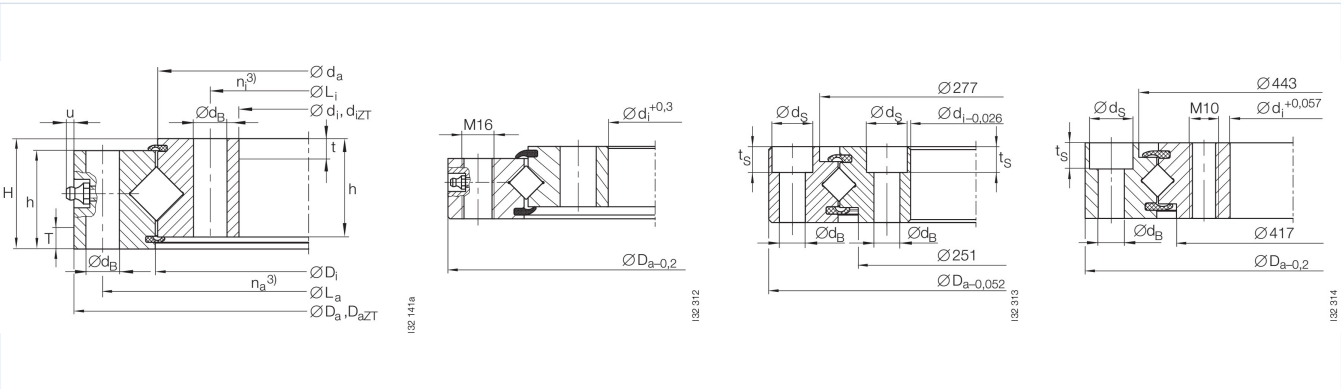
OVERALL OD
300 mm

OVERALL ID
140 mm

OVERALL HEIGHT
36 mm

GEAR
Ungeared

Published Technical Drawing



ina-g19-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	XU 120222
Certified interchangeable with	INA XU 120222
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	PI5LWU5S5G5WD4CGH3DBKPTUIE
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	INA
Reference series	XU Series
Reference model	XU 120222
Bearing structure	Cross roller
Gear arrangement	Ungeared
DIMENSION	
Mass (Mass)	12 kg
Overall outside diameter (Da)	300 mm
Overall inside diameter (di)	140 mm

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.

DIMENSION (CONTINUED)	
Catalog diameter Di (Di)	224 mm
Catalog diameter da (da)	220 mm
Overall height (H)	36 mm
Inner height (h)	30 mm
MOUNTING	
Outer ring bolt circle (La)	270 mm
Inner ring bolt circle (Li)	170 mm
Outer ring mounting-hole count (na)	12
Inner ring mounting-hole count (ni)	12
Common mounting-hole diameter (dB)	18 mm
PERFORMANCE	
Basic dynamic radial load rating (Cr)	85 kN
Basic static radial load rating (C0r)	131 kN
Maximum permissible radial load (Fr perm)	65.5 kN
Basic dynamic axial load rating (Ca)	133 kN
Basic static axial load rating (C0a)	275 kN
Radial clearance (Radial clearance)	0,01 incl. 0,03 mm
Axial tilting clearance (Axial tilting clearance)	0,02 incl. 0,06 mm
PERFORMANCE RATINGS	
Rating Radial Static	131 kN Not simultaneous with other listed dynamic ratings

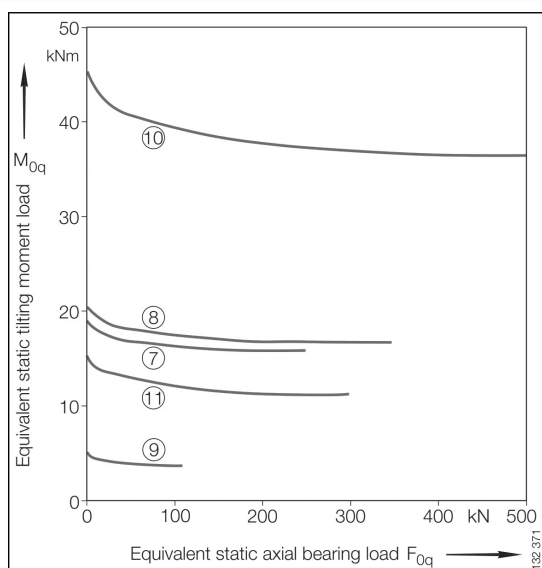
Complete Product Data

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

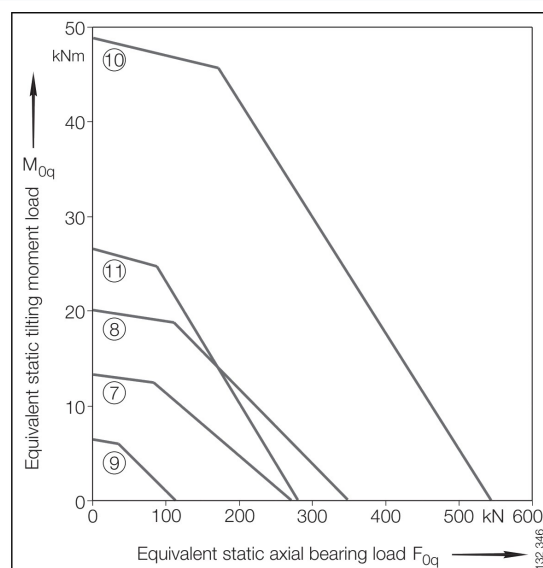
PERFORMANCE RATINGS (CONTINUED)	
Rating Axial Static	275 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	85 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	133 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	65.5 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	12 holes - dB 18 mm
Inner ring mounting	12 holes - dB 18 mm
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	94
Printed page	92
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g19-curve.webp SHA-256: 16af9de4dd723e959d9c077d939955bbcd77c2098372a23959453f2e622f364c
Outline Drawing	ina-g19-drawing.webp SHA-256: 27ed24e82dfd43533b2e4369812155b9f23c434335fc9f3f186d70a990b31288

Published Load / Performance Chart

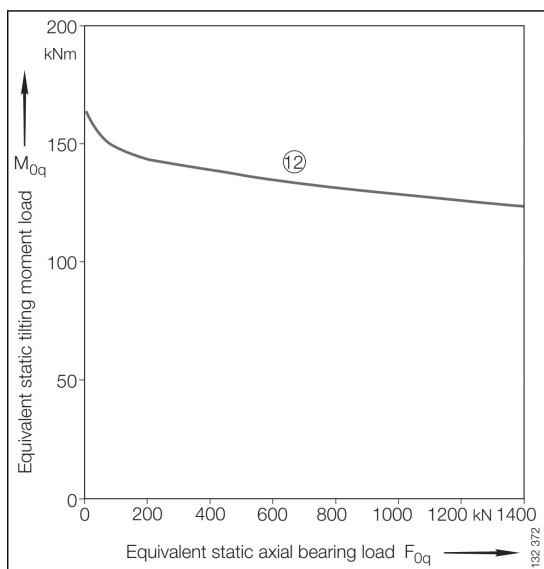
Use the published chart as a preliminary selection aid only. The model legend, curve family and source document must be reviewed together with the operating load case.



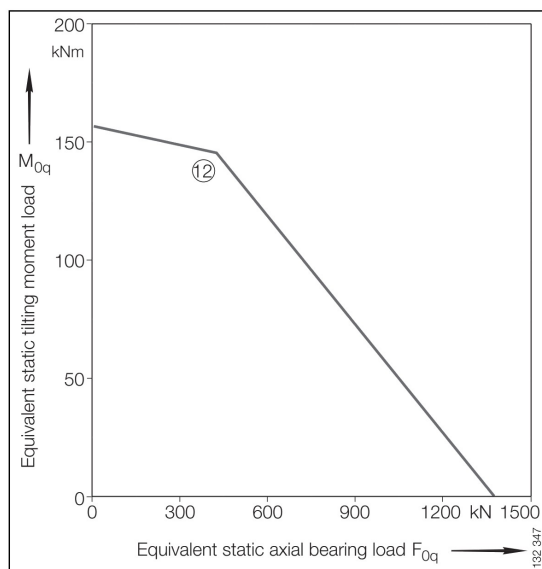
Static limiting load diagram



Static limiting load diagram



Static limiting load diagram



Static limiting load diagram

ina-g19-curve.webp | SHA-256: 16af9de4dd723e959d9c077d939955bbcd77c2098372a23959453f2e622f364c

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 PI5LWU5S5G5WD4CGH3DBKPTUIE	SOURCE DOCUMENT INA-SLEWING-RINGS-CATALOGUE-404-2012
SOURCE FILE 404_de_en_1.pdf	SOURCE LOCATION PDF page 94 Printed page 92
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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/ina/xu-120222/>

Trademark and legal notice: referenced brand and model names are used only for identification and cross-reference. MERYDOM is an independent manufacturer and is not affiliated with or endorsed by the referenced brand unless expressly stated.