

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  
**apraz makaral**

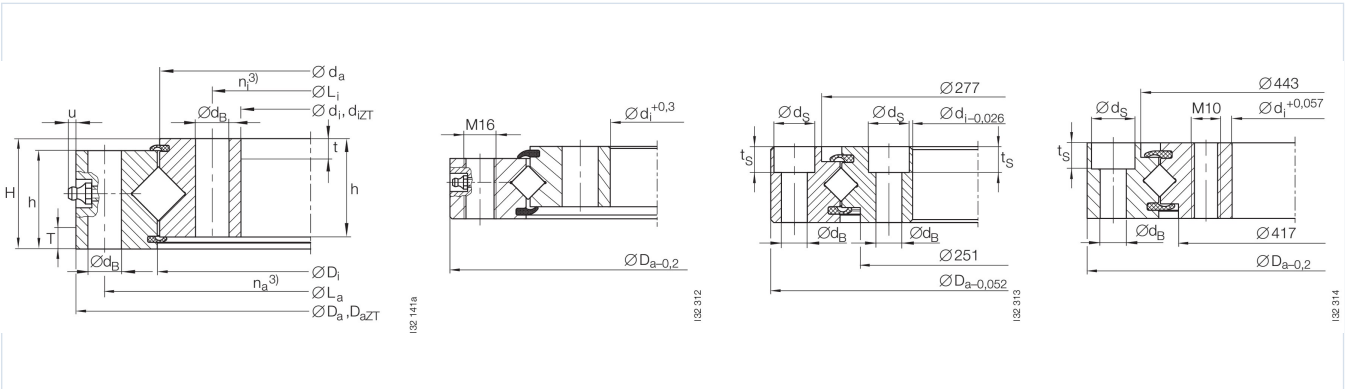
OVERALL OD  
**300 mm**

OVERALL ID  
**140 mm**

OVERALL HEIGHT  
**36 mm**

GEAR  
**Di lisiz**

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                    | apraz makaral                          |
| Gear arrangement                     | Di lisiz                               |
| 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 |

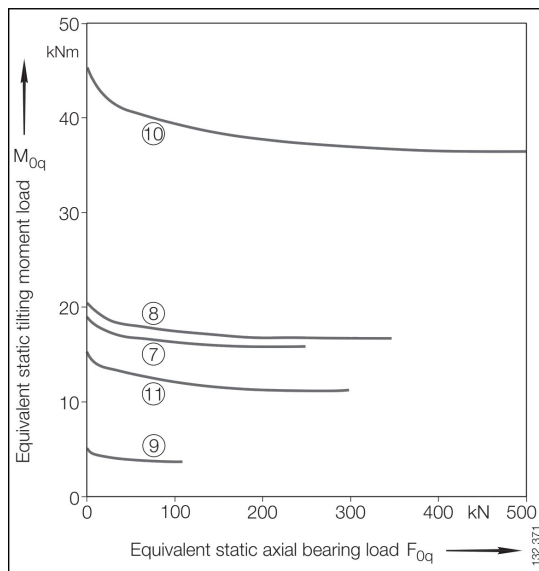
# Complete Product Data

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

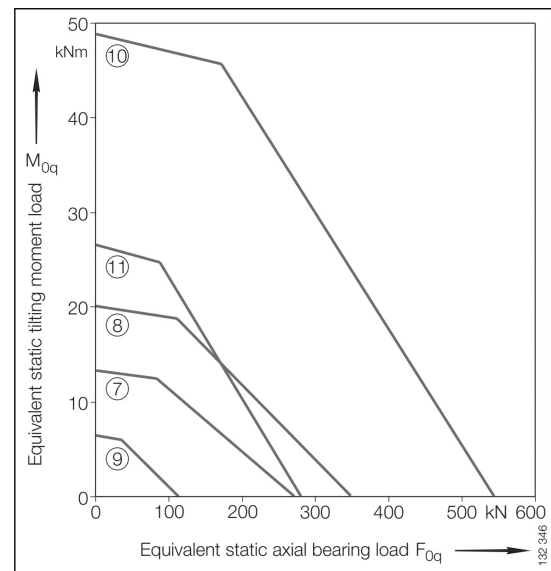
| PERFORMANCE RATINGS (CONTINUED) |                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------|
| Rating Axial Static             | 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:<br>16af9de4dd723e959d9c077d939955bbcd77c2098372a23959453f2e622f364c   |
| Outline Drawing                 | ina-g19-drawing.webp   SHA-256:<br>27ed24e82dfd43533b2e4369812155b9f23c434335fc9f3f186d70a990b31288 |

## Published Load / Performance Chart

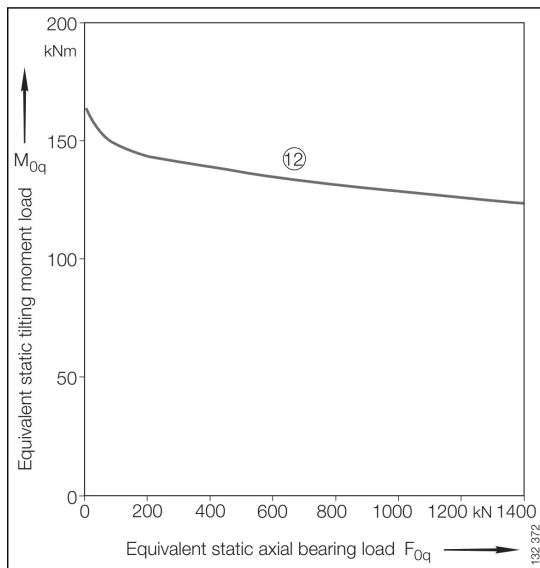
Use the published chart as a preliminary selection aid only. The model legend, curve family and source document must be reviewed together with the operating load case.



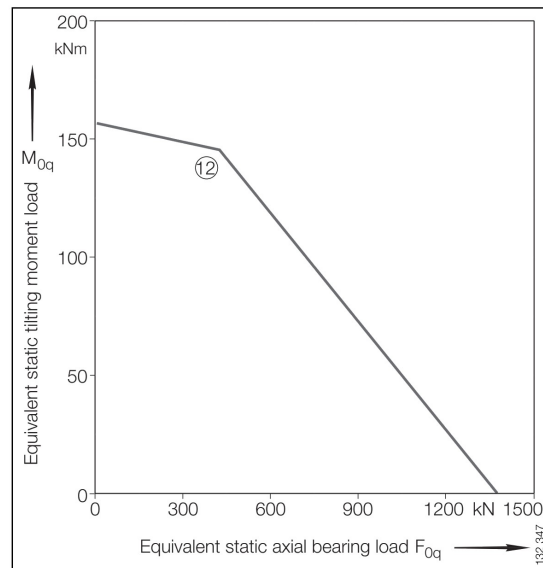
Static limiting load diagram



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](mailto:jovi@merydom.com) | Email: [andi@merydom.com](mailto:andi@merydom.com) | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/tr/urunler/muadil-doner-tabla-rulmanlari/ina/xu-120222/>

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