

Factory-Verified Replacement

MERYDOM XU 160405

Certified for interchange with INA XU 160405. 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 160405

REFERENCE

INA XU 160405

SERIES

XU Series

STRUCTURE

apraz makaral

OVERALL OD

474 mm

OVERALL ID

336 mm

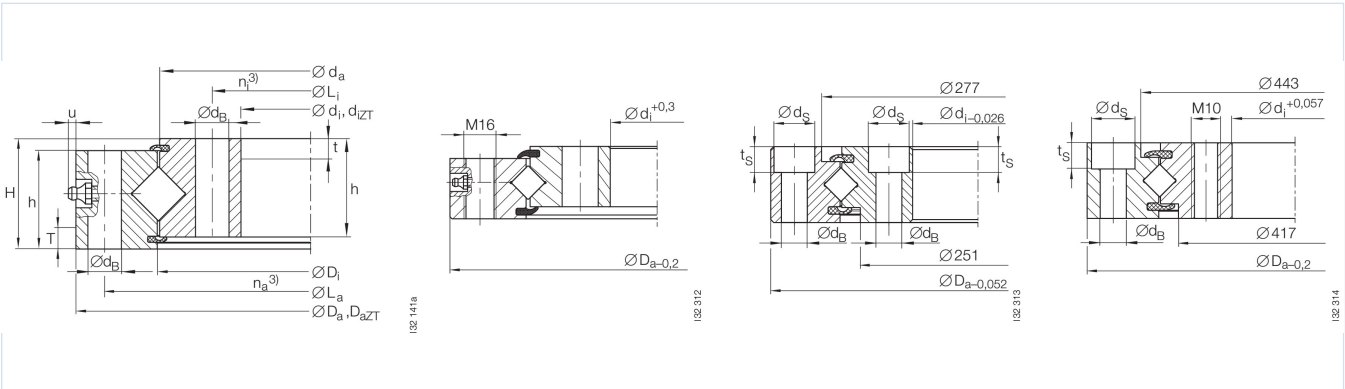
OVERALL HEIGHT

46 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 160405                              |
| Certified interchangeable with       | INA XU 160405                          |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | GRNXPFIM3FIVRNW5LLQEFN77KF             |
| 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 160405                              |
| Bearing structure                    | apraz makaral                          |
| Gear arrangement                     | Di lisiz                               |
| DIMENSION                            |                                        |
| Mass (Mass)                          | 25 kg                                  |
| Overall outside diameter (Da)        | 474 mm                                 |
| Outside centring diameter (DaZT)     | 472 mm                                 |

# Complete Product Data

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| DIMENSION (CONTINUED)                     |                 |
|-------------------------------------------|-----------------|
| Overall inside diameter (di)              | 336 mm          |
| Inside centring diameter (diZT)           | 338 mm          |
| Catalog diameter Di (Di)                  | 406 mm          |
| Catalog diameter da (da)                  | 404 mm          |
| Overall height (H)                        | 46 mm           |
| Inner height (h)                          | 41 mm           |
| Outer centring length (T)                 | 7 mm            |
| Inner centring length (t)                 | 7 mm            |
| Maximum dimension u (u)                   | 3,5 mm          |
| MOUNTING                                  |                 |
| Outer ring bolt circle (La)               | 450 mm          |
| Inner ring bolt circle (Li)               | 360 mm          |
| Outer ring mounting-hole count (na)       | 30              |
| Inner ring mounting-hole count (ni)       | 30              |
| Common mounting-hole diameter (dB)        | 14 mm           |
| PERFORMANCE                               |                 |
| Basic dynamic radial load rating (Cr)     | 172 kN          |
| Basic static radial load rating (C0r)     | 270 kN          |
| Preload (Preload)                         | 0 incl. 0,02 mm |
| Maximum permissible radial load (Fr perm) | 123,9 kN        |

# Complete Product Data

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| PERFORMANCE (CONTINUED)                           |                                                               |
|---------------------------------------------------|---------------------------------------------------------------|
| Basic dynamic axial load rating (Ca)              | 270 kN                                                        |
| Basic static axial load rating (C0a)              | 550 kN                                                        |
| Radial clearance (Radial clearance)               | Clearance-free mm                                             |
| Axial tilting clearance (Axial tilting clearance) | Clearance-free mm                                             |
| PERFORMANCE RATINGS                               |                                                               |
| Rating Radial Static                              | 270 kN   Not simultaneous with other listed dynamic ratings   |
| Rating Axial Static                               | 550 kN   Not simultaneous with other listed dynamic ratings   |
| Rating Radial Dynamic                             | 172 kN   Not simultaneous with other listed dynamic ratings   |
| Rating Axial Dynamic                              | 270 kN   Not simultaneous with other listed dynamic ratings   |
| Rating Radial Load Max                            | 123,9 kN   Not simultaneous with other listed dynamic ratings |
| MOUNTING INTERFACES                               |                                                               |
| Outer ring mounting                               | 30 holes - dB 14 mm                                           |
| Inner ring mounting                               | 30 holes - dB 14 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                                                            |

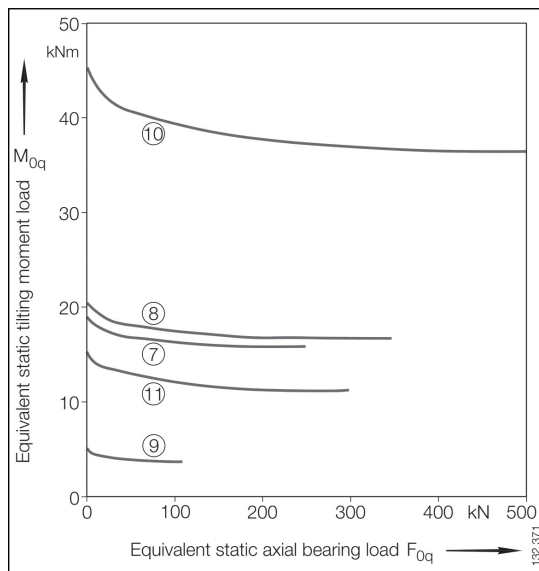
Complete Product Data

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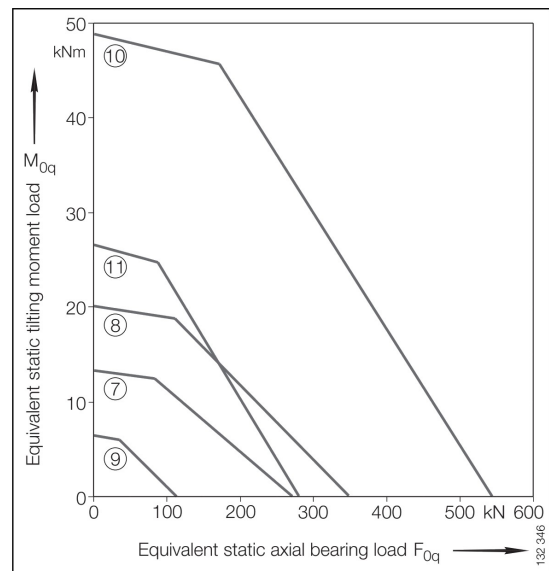
| SOURCE TRACEABILITY (CONTINUED) |                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------|
| Source language                 | 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

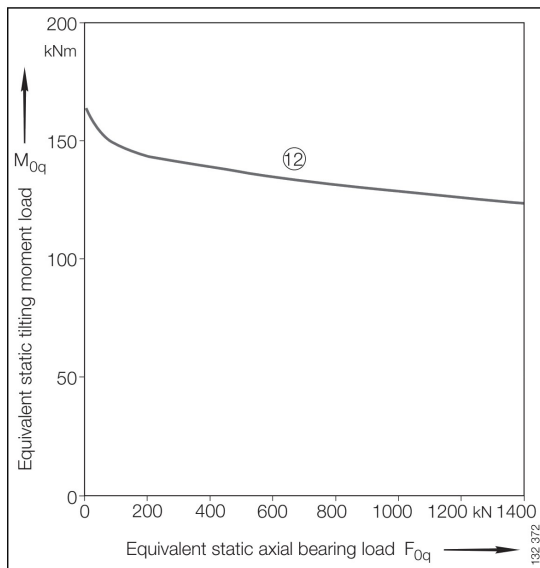
Use the published chart as a preliminary selection aid only. The model legend, curve family and source document must be reviewed together with the operating load case.



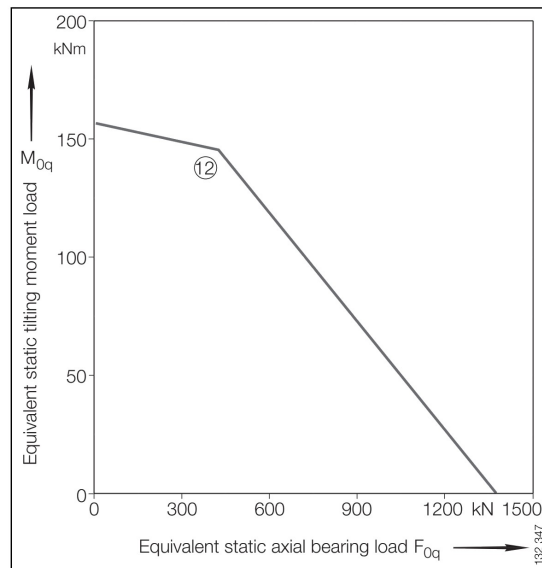
Static limiting load diagram



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

|                                                                               |                                                                            |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------|
| <div>PUBLIC RECORD UID</div> <div>GRNXPFIM3FIVRNW5LLQEFN77KF</div>            | <div>SOURCE DOCUMENT</div> <div>INA-SLEWING-RINGS-CATALOGUE-404-2012</div> |
| <div>SOURCE FILE</div> <div>404_de_en_1.pdf</div>                             | <div>SOURCE LOCATION</div> <div>PDF page 94   Printed page 92</div>        |
| <div>VERIFICATION</div> <div>Level 3 - MERYDOM Engineering<br/>Verified</div> | <div>REVIEWED BY</div> <div>MERYDOM Engineering Department</div>           |

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/tr/urunler/muadil-doner-tabla-rulmanlari/ina/xu-160405/>

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