

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

SERIES

XU Series

OVERALL OD

474 mm

OVERALL HEIGHT

46 mm

REFERENCE

INA XU 160405

STRUCTURE

Cross roller

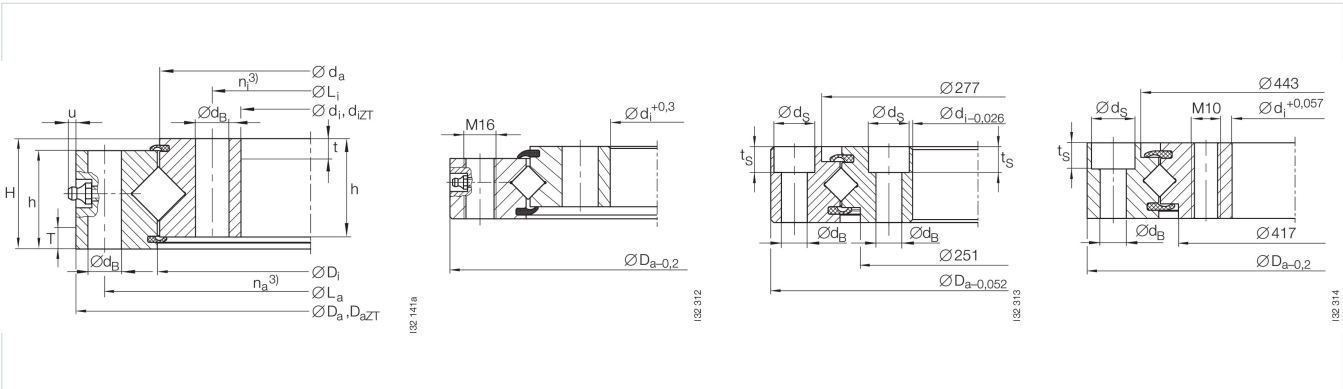
OVERALL ID

336 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 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	Cross roller
Gear arrangement	Ungeared
DIMENSION	
Mass (Mass)	25 kg
Overall outside diameter (Da)	474 mm
Outside centring diameter (DaZT)	472 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)	
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

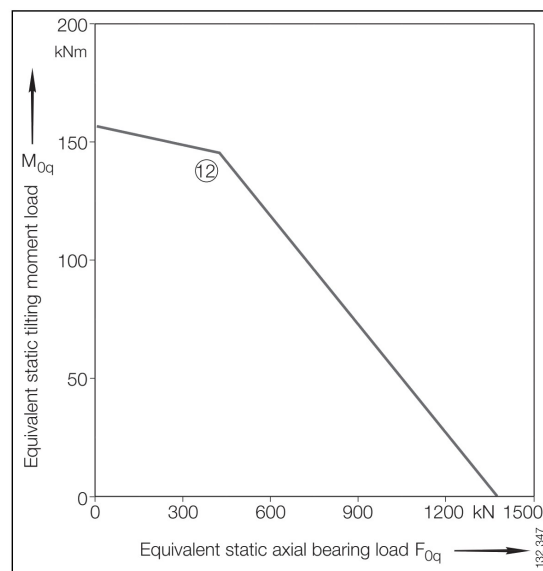
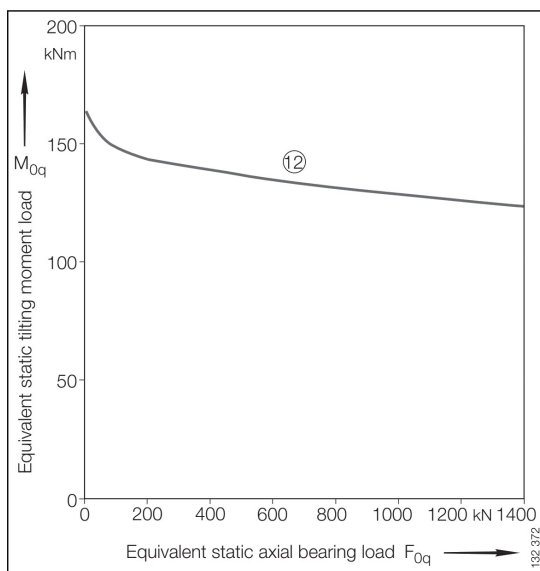
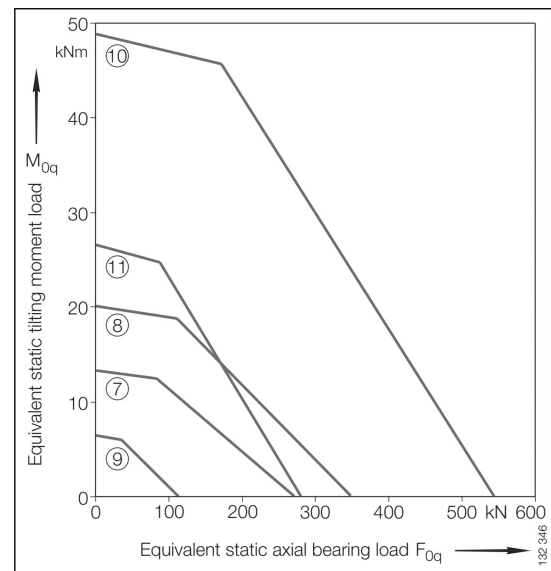
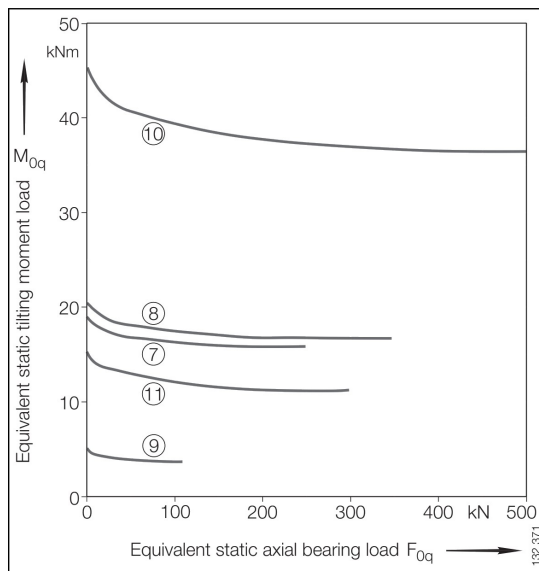
Complete Product Data

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

SOURCE TRACEABILITY (CONTINUED)	
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.



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

GRNXPFIM3FIVRNW5LLQEFN77KF

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-160405/>

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