

Factory-Verified Replacement

MERYDOM VU 250433

Certified for interchange with INA VU 250433. 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

VU 250433

REFERENCE

INA VU 250433

SERIES

VU Series

STRUCTURE

Four-point contact ball

OVERALL OD

522 mm

OVERALL ID

344 mm

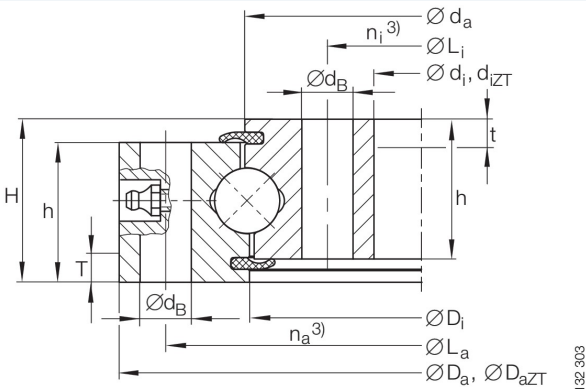
OVERALL HEIGHT

55 mm

GEAR

Ungeared

Published Technical Drawing



ina-g13-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	VU 250433
Certified interchangeable with	INA VU 250433
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	PVCTSXD3DO7AF62GR3PNX4W2N3
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	VU Series
Reference model	VU 250433
Bearing structure	Four-point contact ball
Gear arrangement	Ungeared
DIMENSION	
Mass (Mass)	41 kg
Overall outside diameter (Da)	522 mm
Outside centring diameter (DaZT)	520 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)	344 mm
Inside centring diameter (diZT)	346 mm
Catalog diameter Di (Di)	432 mm
Catalog diameter da (da)	434 mm
Overall height (H)	55 mm
Inner height (h)	50 mm
Outer centring length (T)	8 mm
Inner centring length (t)	8 mm
MOUNTING	
Outer ring bolt circle (La)	490 mm
Inner ring bolt circle (Li)	376 mm
Outer ring mounting-hole count (na)	20
Inner ring mounting-hole count (ni)	20
Common mounting-hole diameter (dB)	18 mm
PERFORMANCE	
Maximum permissible radial load (Fr perm)	156 kN
Basic dynamic axial load rating (Ca)	370 kN
Basic static axial load rating (C0a)	910 kN
Basic dynamic radial load rating (Cr)	243 kN
Basic static radial load rating (C0r)	410 kN

Complete Product Data

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PERFORMANCE (CONTINUED)	
Radial clearance (Radial clearance)	0,06 incl. 0,25 mm
Axial tilting clearance (Axial tilting clearance)	0,11 incl. 0,41 mm
PERFORMANCE RATINGS	
Rating Radial Static	410 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	910 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	243 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	370 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	156 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	20 holes - dB 18 mm
Inner ring mounting	20 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	78
Printed page	76
Source language	EN-DE
Original unit system	Metric

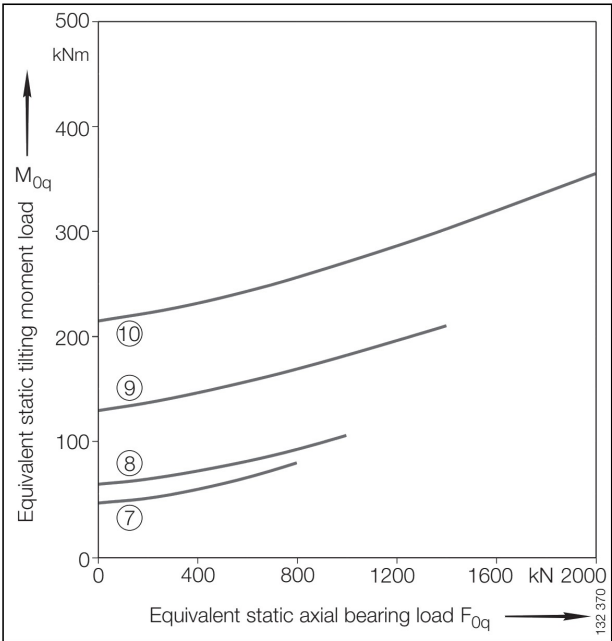
Complete Product Data

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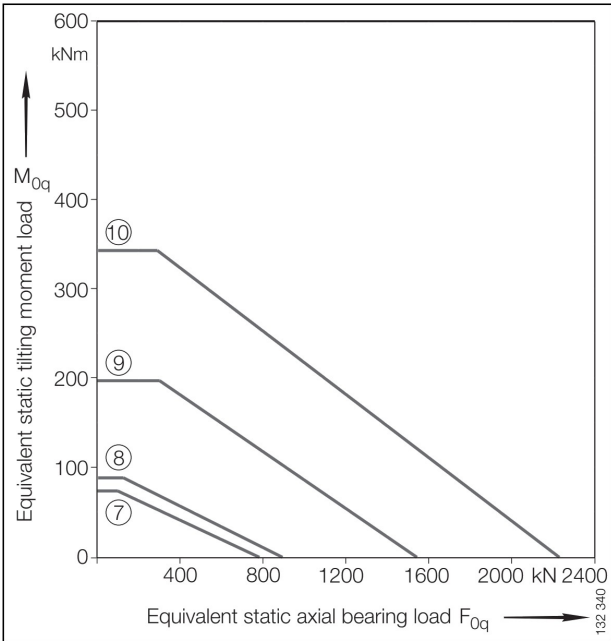
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g13-curve.webp SHA-256: c10c157dd48bc5eb37cbcacbbd95597d4dfa6224c053cada21c4291eb9ad122a
Outline Drawing	ina-g13-drawing.webp SHA-256: efee236a09246679c0dbed47b17003f106c8cf18f577c27a00b12a0e611d08ce

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

ina-g13-curve.webp | SHA-256: c10c157dd48bc5eb37cbcacbbd95597d4dfa6224c053cada21c4291eb9ad122a

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 PVCTSXD3DO7AF62GR3PNX4W2N3	SOURCE DOCUMENT INA-SLEWING-RINGS-CATALOGUE-404-2012
SOURCE FILE 404_de_en_1.pdf	SOURCE LOCATION PDF page 78 Printed page 76
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

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Product page: <https://rotnex.com/products/slewing-bearing-replacements/ina/vu-250433/>

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