

Factory-Verified Replacement

MERYDOM VA 250309 N

Certified for interchange with INA VA 250309 N. 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

VA 250309 N

REFERENCE

INA VA 250309 N

SERIES

VA Series

STRUCTURE

Four-point contact ball

OVERALL OD

408.4 mm

OVERALL ID

235 mm

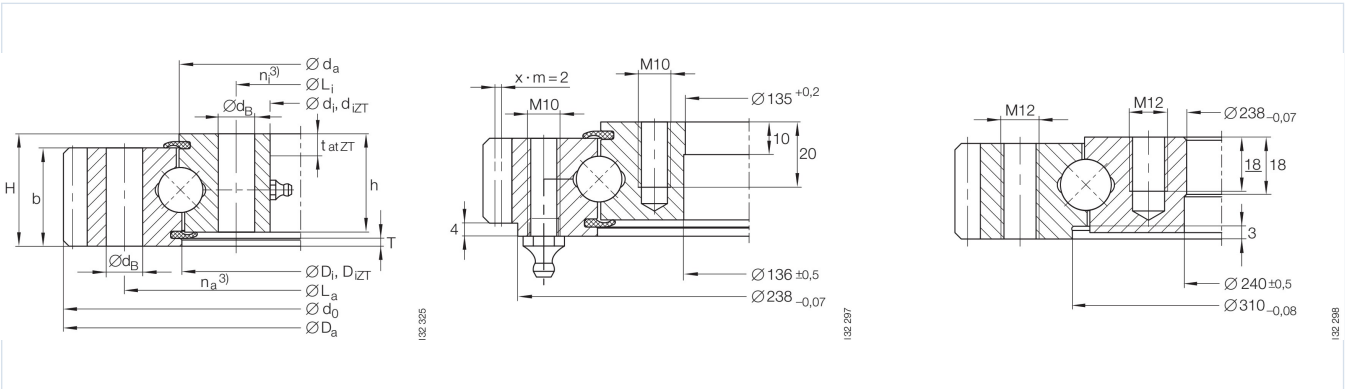
OVERALL HEIGHT

60 mm

GEAR

External gear

Published Technical Drawing



ina-g10-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	VA 250309 N
Certified interchangeable with	INA VA 250309 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ECZZ5CAYVYFZCP2MZVAU7DDF2Q
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	VA Series
Reference model	VA 250309 N
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (Mass)	29.5 kg
Overall outside diameter (Da)	408.4 mm
Overall inside diameter (di)	235 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)	
Inside centring diameter (diZT)	237 mm
Catalog diameter Di (Di)	308 mm
Catalog centring diameter DiZT (DiZT)	310 mm
Catalog diameter da (da)	310 mm
Overall height (H)	60 mm
Inner height (h)	52.5 mm
Outer centring length (T)	3 mm
Inner centring length (t)	8 mm
MOUNTING	
Outer ring bolt circle (La)	359 mm
Inner ring bolt circle (Li)	259 mm
Outer ring mounting-hole count (na)	24
Inner ring mounting-hole count (ni)	24
Common mounting-hole diameter (dB)	13 mm
GEAR	
Gear pitch diameter (d0)	400 mm
Gear module (m)	5 mm
Gear tooth count (z)	80
Gear face width (b)	52.5 mm
PERFORMANCE	

Complete Product Data

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PERFORMANCE (CONTINUED)	
Maximum permissible radial load (Fr perm)	99.1 kN
Basic dynamic axial load rating (Ca)	325 kN
Basic static axial load rating (C0a)	650 kN
Basic dynamic radial load rating (Cr)	215 kN
Basic static radial load rating (C0r)	295 kN
Normal tooth force (Fznorm)	12.9 kN
Maximum tooth force (Fzmax)	18.8 kN
PERFORMANCE RATINGS	
Rating Radial Static	295 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	650 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	215 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	325 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	18.8 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	12.9 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	99.1 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	24 holes - dB 13 mm
Inner ring mounting	24 holes - dB 13 mm
GEAR INTERFACE	
Pitch system	module

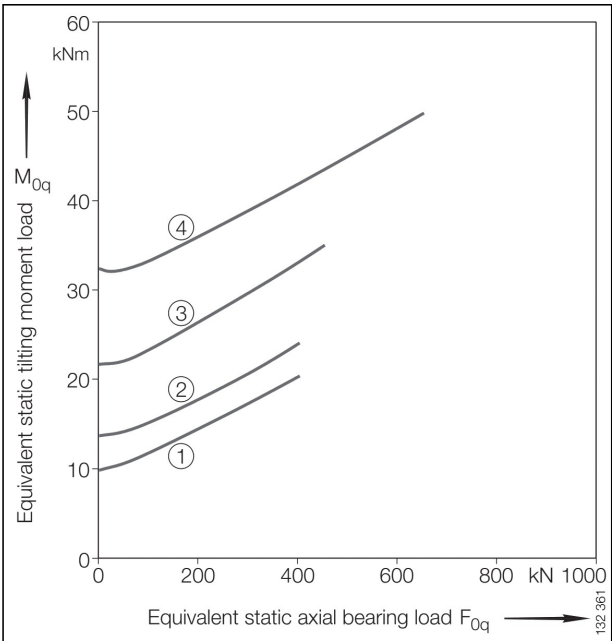
Complete Product Data

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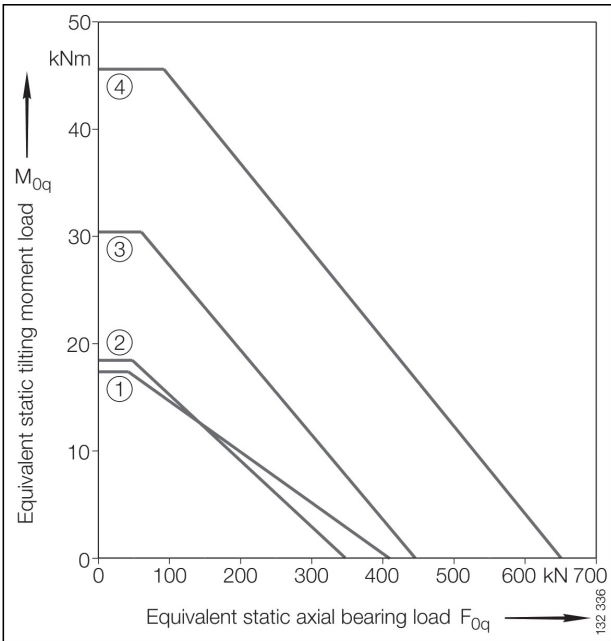
GEAR INTERFACE (CONTINUED)	
Module reference	5 mm
Number of teeth	80
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	72
Printed page	70
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g10-curve.webp SHA-256: c06f84f6c37bea7edebe0061b06aa286a66664931e67da47ab10d65bc74cebba
Outline Drawing	ina-g10-drawing.webp SHA-256: 31aaf2770d43a1825059ca4c4cd4af6c117c25e0048688f77d24515da43dfc09

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-g10-curve.webp | SHA-256: c06f84f6c37bea7edebe0061b06aa286a66664931e67da47ab10d65bc74cebba

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 ECZZ5CAYVYFZCP2MZVAU7DDF2Q	SOURCE DOCUMENT INA-SLEWING-RINGS-CATALOGUE-404-2012
SOURCE FILE 404_de_en_1.pdf	SOURCE LOCATION PDF page 72 Printed page 70
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/va-250309-n/>

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