

Factory-Verified Replacement

MERYDOM VSA 200744 N

Certified for interchange with INA VSA 200744 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
VSA 200744 N

REFERENCE
INA VSA 200744 N

SERIES
VSA 20 Series

STRUCTURE
Four-point contact ball

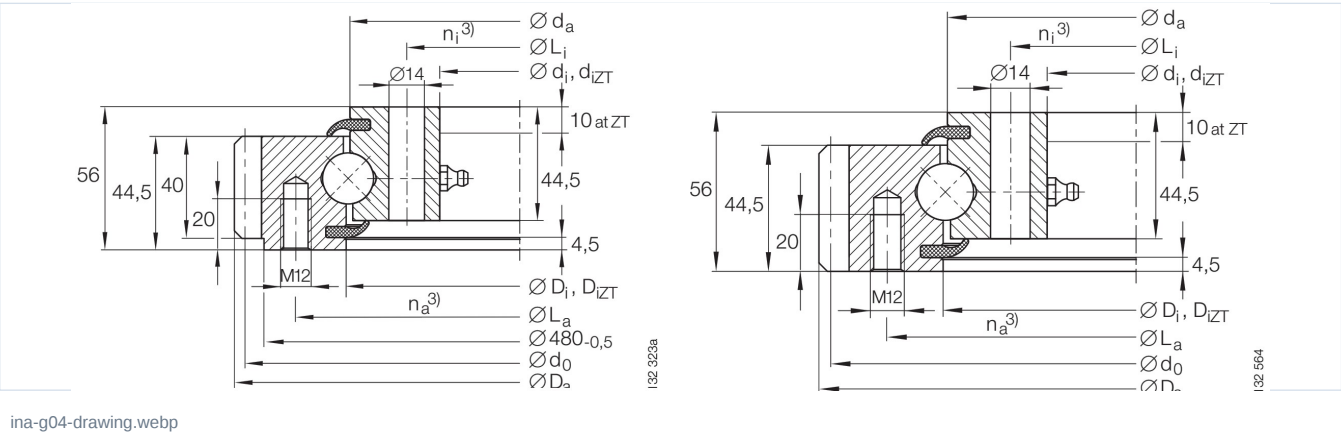
OVERALL OD
838.1 mm

OVERALL ID
672 mm

OVERALL HEIGHT
mm

GEAR
External gear

Published Technical Drawing



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	VSA 200744 N
Certified interchangeable with	INA VSA 200744 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	6ONQMMQNWBZBYMDVDJAS7U7N
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	VSA 20 Series
Reference model	VSA 200744 N
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (Mass)	59 kg
Overall outside diameter (Da)	838.1 mm
Overall inside diameter (di)	672+0,6 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)	674 mm
Catalog diameter Di (Di)	745,5+0,6 mm
Catalog centring diameter DiZT (DiZT)	747 mm
Catalog diameter da (da)	742,5-0,6 mm
MOUNTING	
Outer ring bolt circle (La)	785 mm
Outer ring mounting-hole count (na)	36
Inner ring bolt circle (Li)	698 mm
Inner ring mounting-hole count (ni)	40
GEAR	
Gear pitch diameter (d0)	828 mm
Gear module (m)	6 mm
Gear tooth count (z)	138
PERFORMANCE	
Maximum permissible radial load (Fr perm)	148.7 kN
Normal tooth force (Fznorm)	21.3 kN
Maximum tooth force (Fzmax)	31.5 kN
Basic dynamic axial load rating (Ca)	211 kN
Basic static axial load rating (C0a)	1,010 kN
Basic dynamic radial load rating (Cr)	138 kN

Complete Product Data

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PERFORMANCE (CONTINUED)	
Basic static radial load rating (C _{0r})	445 kN
PERFORMANCE RATINGS	
Rating Radial Static	445 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	1,010 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	138 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	211 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	31.5 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	21.3 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	148.7 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - See source drawing
Inner ring mounting	40 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	138
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	60

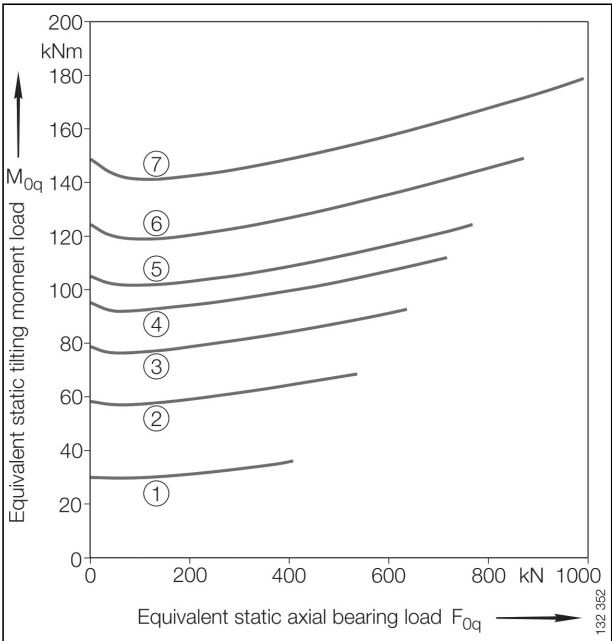
Complete Product Data

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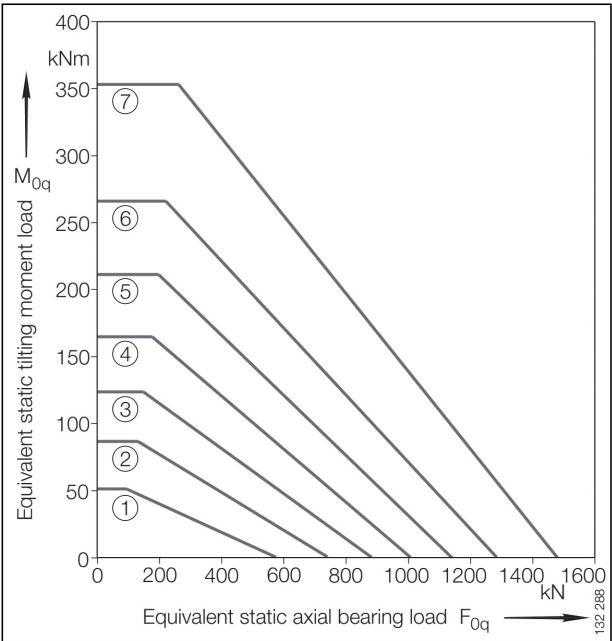
SOURCE TRACEABILITY (CONTINUED)	
Printed page	58
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g04-curve.webp SHA-256: bc90ef6b06bd5b88e28acf15d86874931dcf598e3a9f103ae06adc5032440b56
Outline Drawing	ina-g04-drawing.webp SHA-256: a5869bfa877f8eacaa47abdb5a51f27f3f77bd3957cc427d2ebd639d378a5a2b

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-g04-curve.webp | SHA-256: bc90ef6b06bd5b88e28acf15d86874931dcf598e3a9f103ae06adc5032440b56

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 6ONQMMQNWBZBYMDVDJAS7U7U7N	SOURCE DOCUMENT INA-SLEWING-RINGS-CATALOGUE-404-2012
SOURCE FILE 404_de_en_1.pdf	SOURCE LOCATION PDF page 60 Printed page 58
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/vsa-200744-n/>

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