Factory-Verified Replacement

MERYDOM VSA 200644 N

Certified for interchange with INA VSA 200644 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 200644 N

REFERENCE

INA VSA 200644 N

SERIES

VSA 20 Series

STRUCTURE

Four-point contact ball

OVERALL OD

742.3 mm

OVERALL ID

572 mm

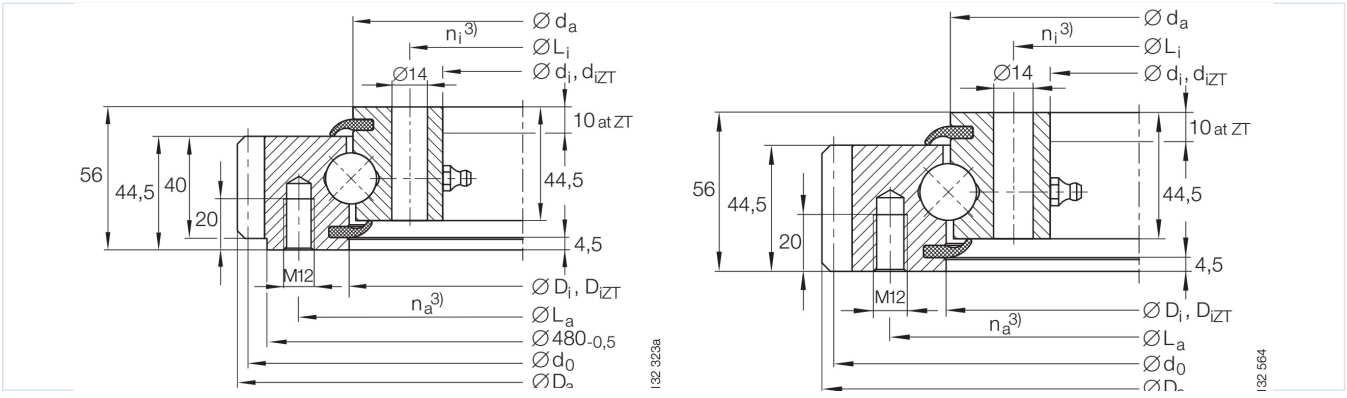
OVERALL HEIGHT

mm

GEAR

External gear

Published Technical Drawing



ina-g04-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	VSA 200644 N
Certified interchangeable with	INA VSA 200644 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	4KG6PXG2XHI7TOSPG2XYYJFUOQ
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 200644 N
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (Mass)	52 kg
Overall outside diameter (Da)	742.3 mm
Overall inside diameter (di)	572+0,6 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Inside centring diameter (diZT)	574 mm
Catalog diameter Di (Di)	645,5+0,6 mm
Catalog centring diameter DiZT (DiZT)	647 mm
Catalog diameter da (da)	642,5-0,6 mm
MOUNTING	
Outer ring bolt circle (La)	685 mm
Outer ring mounting-hole count (na)	32
Inner ring bolt circle (Li)	598 mm
Inner ring mounting-hole count (ni)	36
GEAR	
Gear pitch diameter (d0)	732 mm
Gear module (m)	6 mm
Gear tooth count (z)	122
PERFORMANCE	
Maximum permissible radial load (Fr perm)	132.2 kN
Normal tooth force (Fznorm)	21.3 kN
Maximum tooth force (Fzmax)	31.5 kN
Basic dynamic axial load rating (Ca)	200 kN
Basic static axial load rating (C0a)	880 kN
Basic dynamic radial load rating (Cr)	131 kN

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PERFORMANCE (CONTINUED)	
Basic static radial load rating (C0r)	385 kN
PERFORMANCE RATINGS	
Rating Radial Static	385 kN | Not simultaneous with other listed dynamic ratings
Rating Axial Static	880 kN | Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	131 kN | Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	200 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	132.2 kN | Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	32 holes - See source drawing
Inner ring mounting	36 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	122
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	60

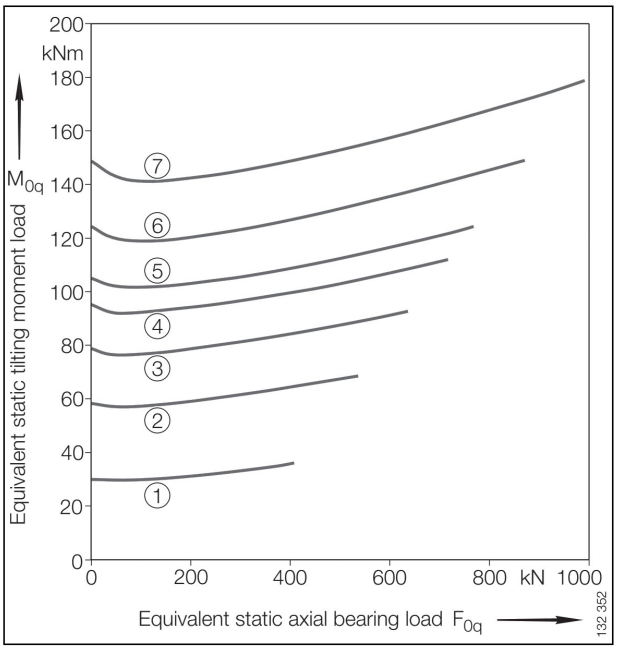
Complete Product Data

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

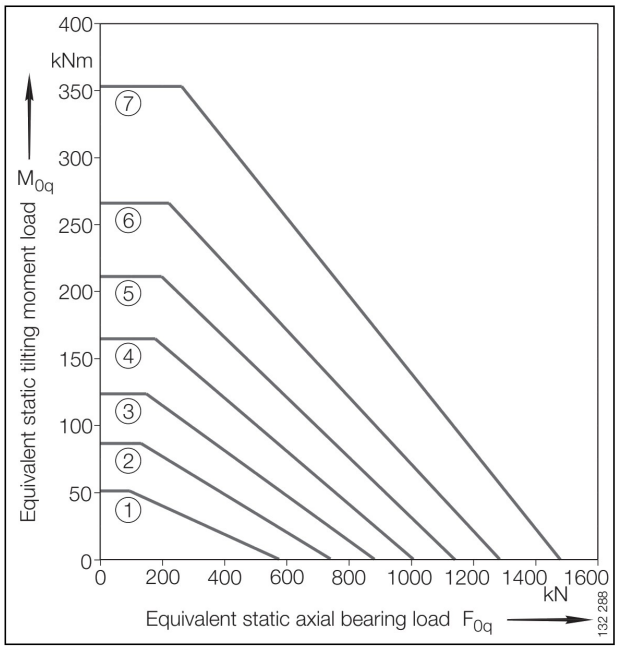
SOURCE TRACEABILITY (CONTINUED)	
Printed page	58
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g04-curve.webp | SHA-256: bc90ef6b06bd5b88e28acf15d86874931dcf598e3a9f103ae06adc5032440b56
Outline Drawing	ina-g04-drawing.webp | SHA-256: a5869bfa877f8eacaa47abdb5a51f27f3f77bd3957cc427d2ebd639d378a5a2b

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

4KG6PXG2XHI7TOSPG2XYYJFUOQ

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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170

Product page: https://rotnex.com/products/slewing-bearing-replacements/ina/vsa-200644-n/