

Factory-Verified Replacement

MERYDOM VSI 200744 N

Certified for interchange with INA VSI 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
VSI 200744 N

REFERENCE
INA VSI 200744 N

SERIES
VSI 20 Series

STRUCTURE
Four-point contact ball

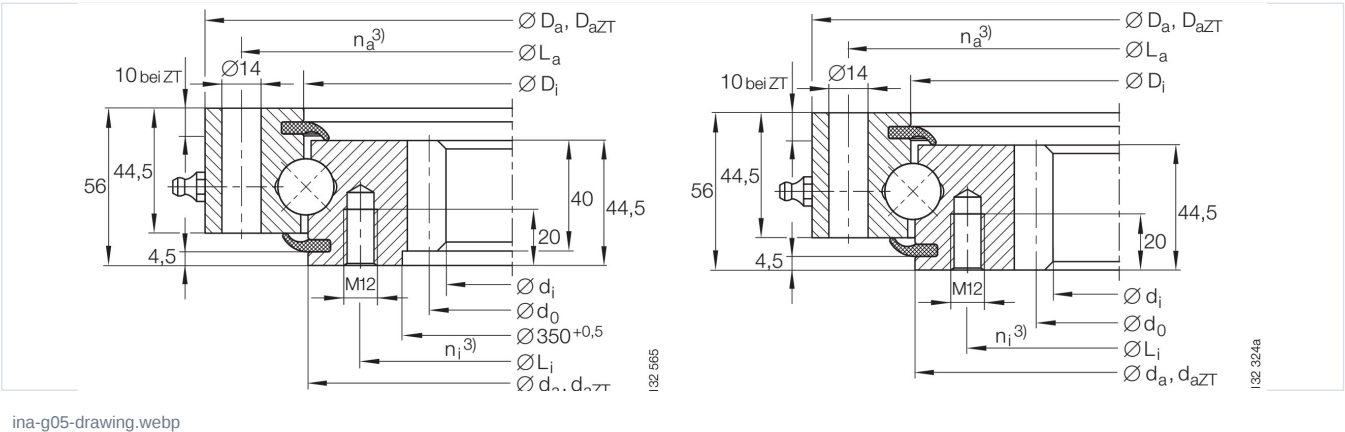
OVERALL OD
816 mm

OVERALL ID
648 mm

OVERALL HEIGHT
mm

GEAR
Internal 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	VSI 200744 N
Certified interchangeable with	INA VSI 200744 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5RSUMWAKTECSVYHFB7A6TO42FU
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	VSI 20 Series
Reference model	VSI 200744 N
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Mass (Mass)	58 kg
Overall outside diameter (Da)	816-0,6 mm
Outside centring diameter (DaZT)	814 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall inside diameter (di)	648 mm
Catalog diameter Di (Di)	745,5+0,6 mm
Catalog diameter da (da)	742,5-0,6 mm
Catalog centring diameter daZT (daZT)	741 mm
MOUNTING	
Outer ring bolt circle (La)	790 mm
Outer ring mounting-hole count (na)	40
Inner ring bolt circle (Li)	705 mm
Inner ring mounting-hole count (ni)	40
GEAR	
Gear pitch diameter (d0)	660 mm
Gear module (m)	6 mm
Gear tooth count (z)	110
PERFORMANCE	
Maximum permissible radial load (Fr perm)	165.2 kN
Normal tooth force (Fznorm)	23.7 kN
Maximum tooth force (Fzmax)	35 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	35 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Normal	23.7 kN Not simultaneous with other listed dynamic ratings
Rating Radial Load Max	165.2 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	40 holes - See source drawing
Inner ring mounting	40 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	110
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	62

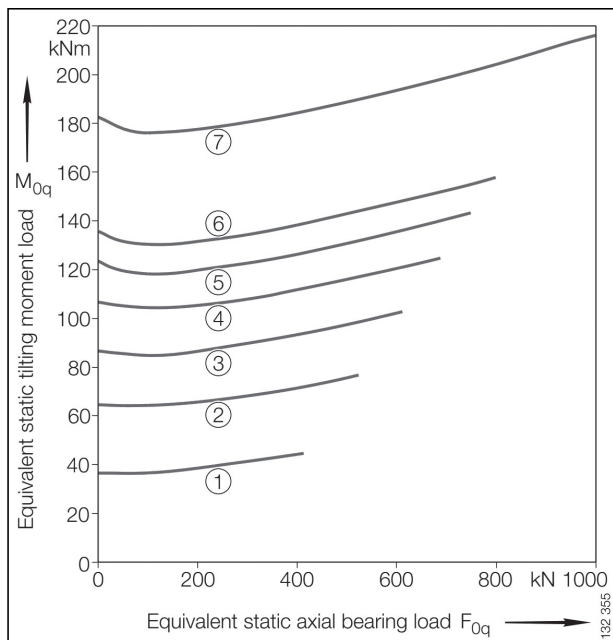
Complete Product Data

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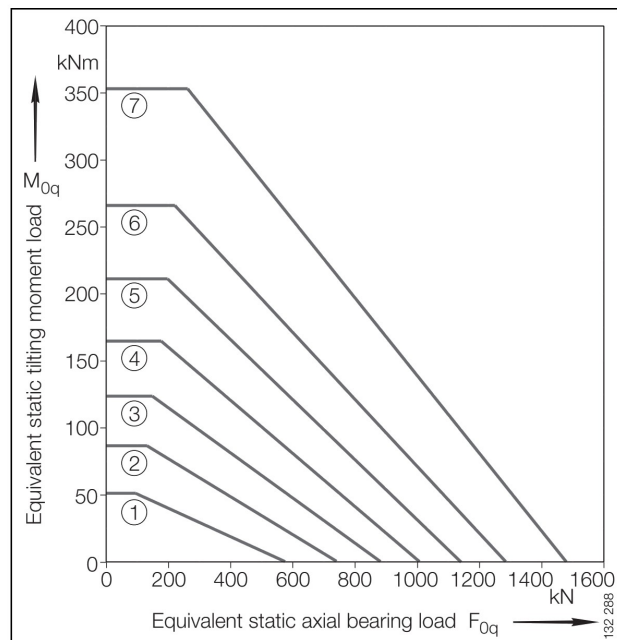
SOURCE TRACEABILITY (CONTINUED)	
Printed page	60
Source language	EN-DE
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g05-curve.webp SHA-256: fb0e0ce5a4e3d4bb75bd48bfd1e620139c351bb1cc03611c4a0b2c517182c12b
Outline Drawing	ina-g05-drawing.webp SHA-256: 292f24816a8315396ba35679ad20ed0cbe8ec267d4e1c171f7957a4aa33bd574

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-g05-curve.webp | SHA-256: fb0e0ce5a4e3d4bb75bd48bfd1e620139c351bb1cc03611c4a0b2c517182c12b

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 5RSUMWAKTECSVYHFB7A6TO42FU	SOURCE DOCUMENT INA-SLEWING-RINGS-CATALOGUE-404-2012
SOURCE FILE 404_de_en_1.pdf	SOURCE LOCATION PDF page 62 Printed page 60
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/vsi-200744-n/>

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