

Factory-Verified Replacement

MERYDOM XSA 140544 N

Certified for interchange with INA XSA 140544 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

XSA 140544 N

SERIES

XSA 14 Series

OVERALL OD

640.3 mm

OVERALL HEIGHT

mm

REFERENCE

INA XSA 140544 N

STRUCTURE

Cross roller

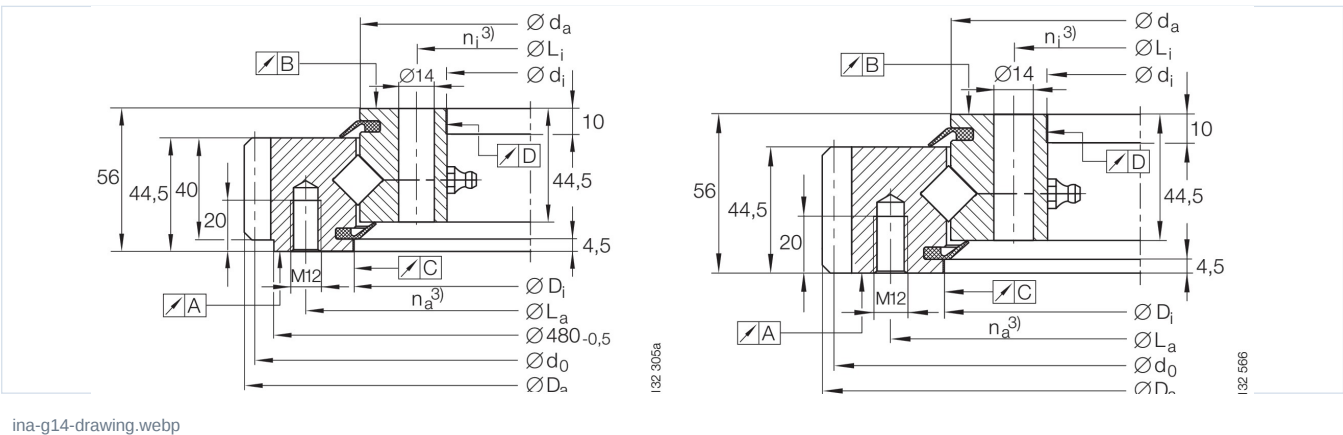
OVERALL ID

474 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	XSA 140544 N
Certified interchangeable with	INA XSA 140544 N
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	3NM4WN4RTRAXEUUBUQEDUXVHLJ
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	XSA 14 Series
Reference model	XSA 140544 N
Bearing structure	Cross roller
Gear arrangement	External gear
DIMENSION	
Mass (Mass)	44 kg
Overall outside diameter (Da)	640.3 mm
Overall inside diameter (di)	474 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)	
Catalog diameter Di (Di)	547 mm
Catalog diameter da (da)	543-0,5 mm
MOUNTING	
Outer ring bolt circle (La)	585 mm
Outer ring mounting-hole count (na)	28
Inner ring bolt circle (Li)	498 mm
Inner ring mounting-hole count (ni)	32
GEAR	
Gear pitch diameter (d0)	630 mm
Gear module (m)	6 mm
Gear tooth count (z)	105
PERFORMANCE	
Maximum permissible radial load (Fr perm)	115.6 kN
Normal tooth force (Fznorm)	21.3 kN
Maximum tooth force (Fzmax)	31.5 kN
Basic dynamic axial load rating (Ca)	270 kN
Basic static axial load rating (C0a)	680 kN
Basic dynamic radial load rating (Cr)	170 kN
Basic static radial load rating (C0r)	330 kN
Preload (Preload)	0,01 incl. 0,03 mm

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PERFORMANCE RATINGS	
Rating Radial Static	330 kN Not simultaneous with other listed dynamic ratings
Rating Axial Static	680 kN Not simultaneous with other listed dynamic ratings
Rating Radial Dynamic	170 kN Not simultaneous with other listed dynamic ratings
Rating Axial Dynamic	270 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	115.6 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	28 holes - See source drawing
Inner ring mounting	32 holes - See source drawing
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	105
SOURCE TRACEABILITY	
Source document code	INA-SLEWING-RINGS-CATALOGUE-404-2012
Source file	404_de_en_1.pdf
PDF page	84
Printed page	82
Source language	EN-DE

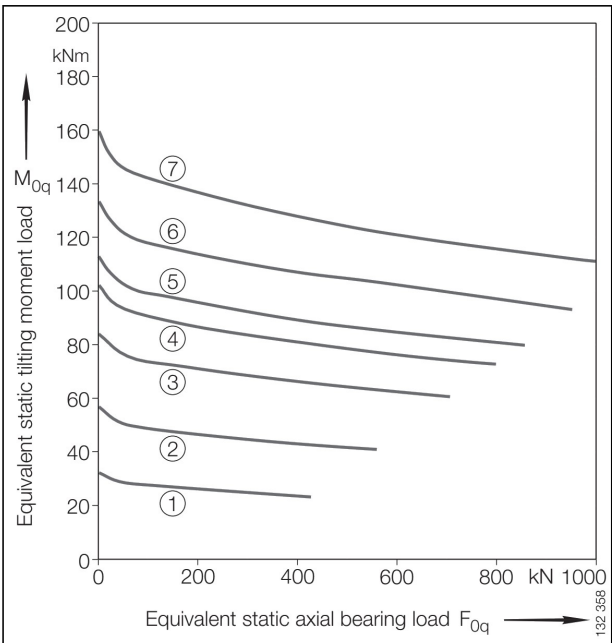
Complete Product Data

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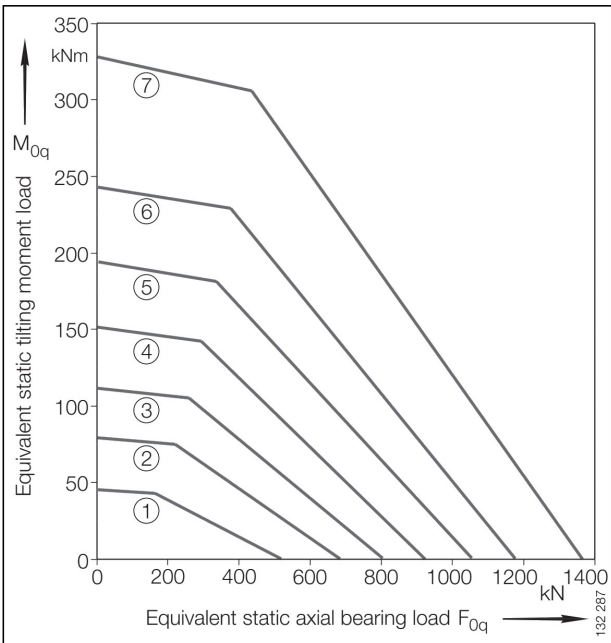
SOURCE TRACEABILITY (CONTINUED)	
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	ina-g14-curve.webp SHA-256: c6cb75fe394cf4956d3e8fd211f24eb12164284628a5e99b6d6fd5506042b488
Outline Drawing	ina-g14-drawing.webp SHA-256: 20a79e3f75f58dcc807df6827fcbe18d04878976f1509ed74f155a52de7d74b0

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-g14-curve.webp | SHA-256: c6cb75fe394cf4956d3e8fd211f24eb12164284628a5e99b6d6fd5506042b488

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 3NM4WN4RTRAXEUUBUQEDUXVHLJ	SOURCE DOCUMENT INA-SLEWING-RINGS-CATALOGUE-404-2012
SOURCE FILE 404_de_en_1.pdf	SOURCE LOCATION PDF page 84 Printed page 82
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/xsa-140544-n/>

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