

Factory-Verified Replacement

MERYDOM 1144I-12B-200

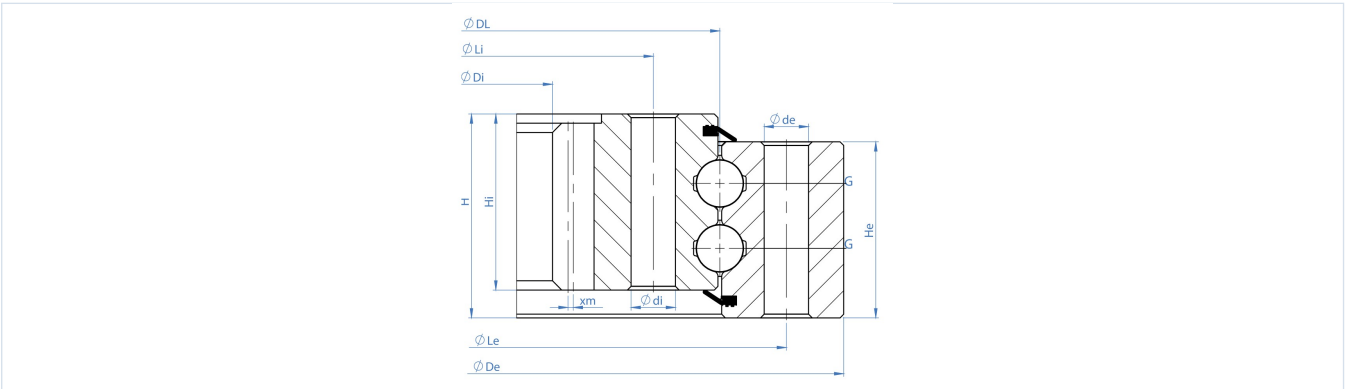
Certified for interchange with Tibet Makina 1144I-12B-200. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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	REFERENCE
1144I-12B-200	Tibet Makina 1144I-12B-200
SERIES	STRUCTURE
DOUBLE_ROW_BALL_INTERNAL Series	Double-row ball
OVERALL OD	OVERALL ID
1,250 mm	998 mm
OVERALL HEIGHT	GEAR
110 mm	Internal gear

Published Technical Drawing



double_row_ball_internal-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	1144I-12B-200
Certified interchangeable with	Tibet Makina 1144I-12B-200
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	BMVC2SFWHV4ZICDBGF7ETLAUGM
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	Tibet Makina
Reference series	DOUBLE_ROW_BALL_INTERNAL Series
Reference model	1144I-12B-200
Bearing structure	Double-row ball
Gear arrangement	Internal gear
DIMENSION	
Mass (Kg)	300 kg
Overall outside diameter (De)	1,250 mm
Overall inside diameter (Di)	998 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)	
Overall height (H)	110 mm
Outer ring height (He)	100 mm
Inner ring height (Hi)	100 mm
MOUNTING	
Outer ring bolt circle (Le)	1,208 mm
Inner ring bolt circle (Li)	1,080 mm
Outer ring mounting-hole count (ne)	36
Inner ring mounting-hole count (ni)	36
Outer ring mounting-hole specification (de)	21 mm
Inner ring mounting-hole specification (di)	21 mm
GEAR	
Gear module (m)	10 mm
Gear tooth count (z)	100
Addendum modification product x*m (xm)	8 mm
PERFORMANCE	
Normal tooth force (Ft_normal)	91 kN
Maximum tooth force (Ft_max)	182 kN
MISCELLANEOUS	
Raceway Pitch Diameter (DL)	1,144 mm
Lubrication Zerk Count (G)	4

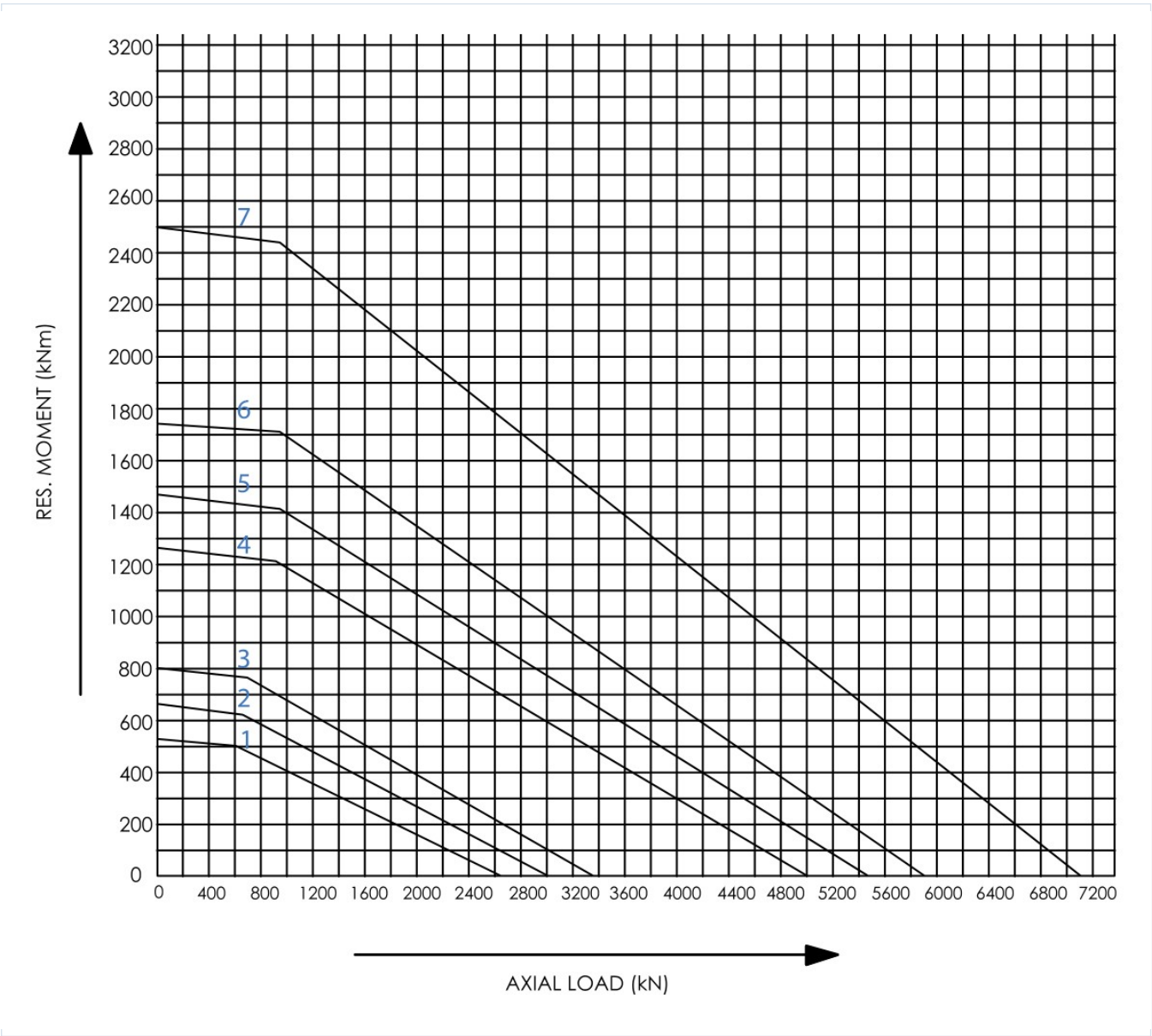
Complete Product Data

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

PERFORMANCE RATINGS	
Rating Tooth Force Normal	91 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	182 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - de 21 mm
Inner ring mounting	36 holes - di 21 mm
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	100
SOURCE TRACEABILITY	
Source document code	TIBET_MAKINA_2015_CATALOG
Source file	tibet_makina_2015.pdf
PDF page	43
Printed page	43
Source language	TR-EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	double_row_ball_internal-static-load-curve.webp SHA-256: e47a0610ee1623aed5cf4cbad71ef922912a8573c68b591483dac31ce968ad0d
Outline Drawing	double_row_ball_internal-drawing.webp SHA-256: 40e4cecef89ad40d0f86f78bce0f6f572279c5a4d7b10f4480424d33c3a70350

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.



double_row_ball_internal-static-load-curve.webp | SHA-256:
e47a0610ee1623aed5cf4cbad71ef922912a8573c68b591483dac31ce968ad0d

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 BMVC2SFWHV4ZICDBGF7ETLAUGM	SOURCE DOCUMENT TIBET_MAKINA_2015_CATALOG
SOURCE FILE tibet_makina_2015.pdf	SOURCE LOCATION PDF page 43 Printed page 43
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/tibet-makina/1144i-12b-200/>

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