

Factory-Verified Replacement

MERYDOM 1450I-12B-100

Certified for interchange with Tibet Makina 1450I-12B-100. 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

1450I-12B-100

REFERENCE

Tibet Makina 1450I-12B-100

SERIES

FOUR_POINT_INTERNAL Series

STRUCTURE

Four-point contact ball

OVERALL OD

1,555 mm

OVERALL ID

1,300 mm

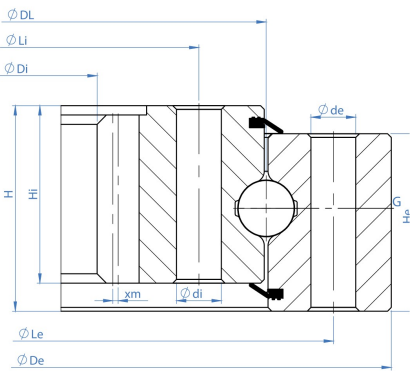
OVERALL HEIGHT

80 mm

GEAR

Internal gear

Published Technical Drawing



four_point_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	1450I-12B-100
Certified interchangeable with	Tibet Makina 1450I-12B-100
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	VJCMFSPIPU4OVQTJGMFNSLOWV
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	FOUR_POINT_INTERNAL Series
Reference model	1450I-12B-100
Bearing structure	Four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Mass (Kg)	280 kg
Overall outside diameter (De)	1,555 mm
Overall inside diameter (Di)	1,300 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)	80 mm
Outer ring height (He)	70 mm
Inner ring height (Hi)	70 mm
MOUNTING	
Outer ring bolt circle (Le)	1,515 mm
Inner ring bolt circle (Li)	1,390 mm
Outer ring mounting-hole count (ne)	42
Inner ring mounting-hole count (ni)	42
Outer ring mounting-hole specification (de)	22 mm
Inner ring mounting-hole specification (di)	22 mm
GEAR	
Gear module (m)	10 mm
Gear tooth count (z)	132
PERFORMANCE	
Normal tooth force (Ft_normal)	54 kN
Maximum tooth force (Ft_max)	108 kN
MISCELLANEOUS	
Raceway Pitch Diameter (DL)	1,450 mm
Lubrication Zerk Count (G)	6
PERFORMANCE RATINGS	
Rating Tooth Force Normal	54 kN Not simultaneous with other listed dynamic ratings

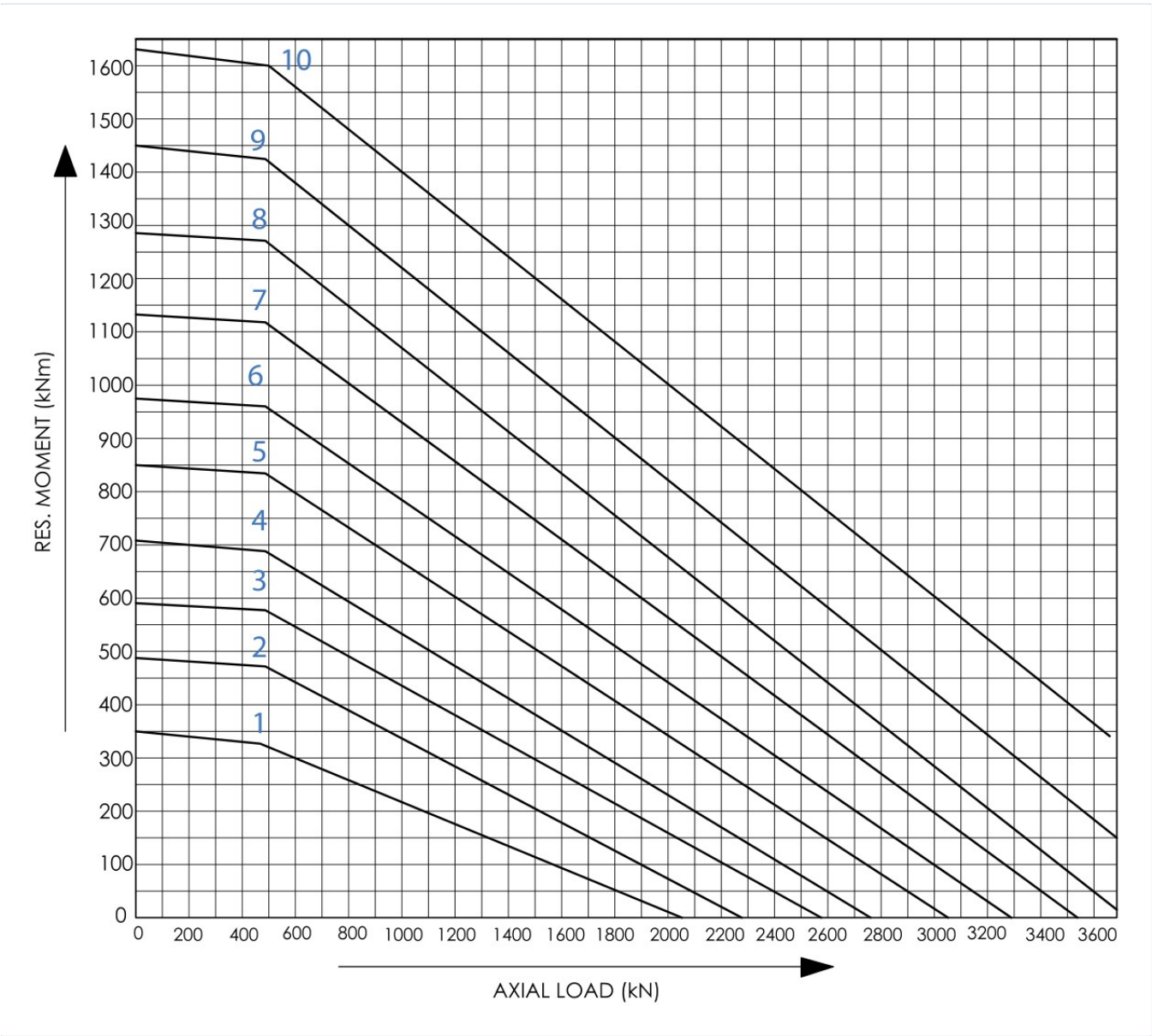
Complete Product Data

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 (CONTINUED)	
Rating Tooth Force Max	108 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	42 holes - de 22 mm
Inner ring mounting	42 holes - di 22 mm
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	132
SOURCE TRACEABILITY	
Source document code	TIBET_MAKINA_2015_CATALOG
Source file	tibet_makina_2015.pdf
PDF page	39
Printed page	39
Source language	TR-EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	four_point_internal-static-load-curve.webp SHA-256: ba93dbb18c3a3ff51fa35db6d13aeb1b11bc4d0be7c47a352c9623346441ffe5
Outline Drawing	four_point_internal-drawing.webp SHA-256: 279db2231e91f3dd35b683256f1f8fb082f0479941382f1d333e6071fbf6ebf3

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.



four_point_internal-static-load-curve.webp | SHA-256:
ba93dbb18c3a3ff51fa35db6d13aeb1b11bc4d0be7c47a352c9623346441ffe5

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 VJCMFSPIPU40VQTJGMFNSOLOWV	SOURCE DOCUMENT TIBET_MAKINA_2015_CATALOG
SOURCE FILE tibet_makina_2015.pdf	SOURCE LOCATION PDF page 39 Printed page 39
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/1450i-12b-100/>

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