

Factory-Verified Replacement

MERYDOM 1450E-12R-100

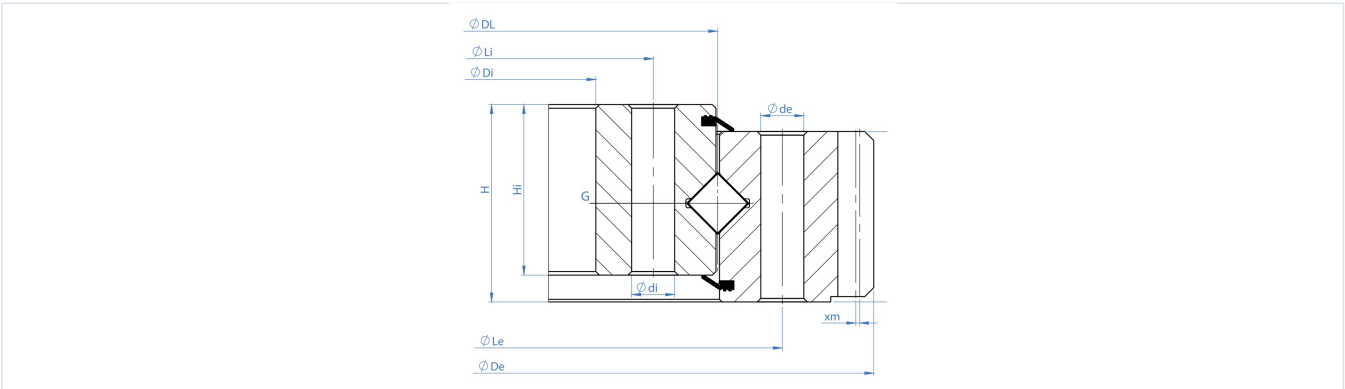
Certified for interchange with Tibet Makina 1450E-12R-100. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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	REFERENCE
1450E-12R-100	Tibet Makina 1450E-12R-100
SERIES	STRUCTURE
SINGLE_ROW_ROLLER_EXTERNAL Series	Single Row Roller
OVERALL OD	OVERALL ID
1,620 mm	1,330 mm
OVERALL HEIGHT	GEAR
80 mm	Dentatura esterna

Published Technical Drawing



single_row_roller_external-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	1450E-12R-100
Certified interchangeable with	Tibet Makina 1450E-12R-100
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	RR5TD6JQLXYDECDEACOM3BUIZ
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	SINGLE_ROW_ROLLER_EXTERNAL Series
Reference model	1450E-12R-100
Bearing structure	Single Row Roller
Gear arrangement	Dentatura esterna
DIMENSION	
Mass (Kg)	317 kg
Overall outside diameter (De)	1.620 mm
Overall inside diameter (Di)	1.330 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)	1.525 mm
Inner ring bolt circle (Li)	1.375 mm
Outer ring mounting-hole count (ne)	48
Inner ring mounting-hole count (ni)	48
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)	160
PERFORMANCE	
Normal tooth force (Ft_normal)	52 kN
Maximum tooth force (Ft_max)	104 kN
MISCELLANEOUS	
Raceway Pitch Diameter (DL)	1.450 mm
Lubrication Zerk Count (G)	6
PERFORMANCE RATINGS	
Rating Tooth Force Normal	52 kN Not simultaneous with other listed dynamic ratings

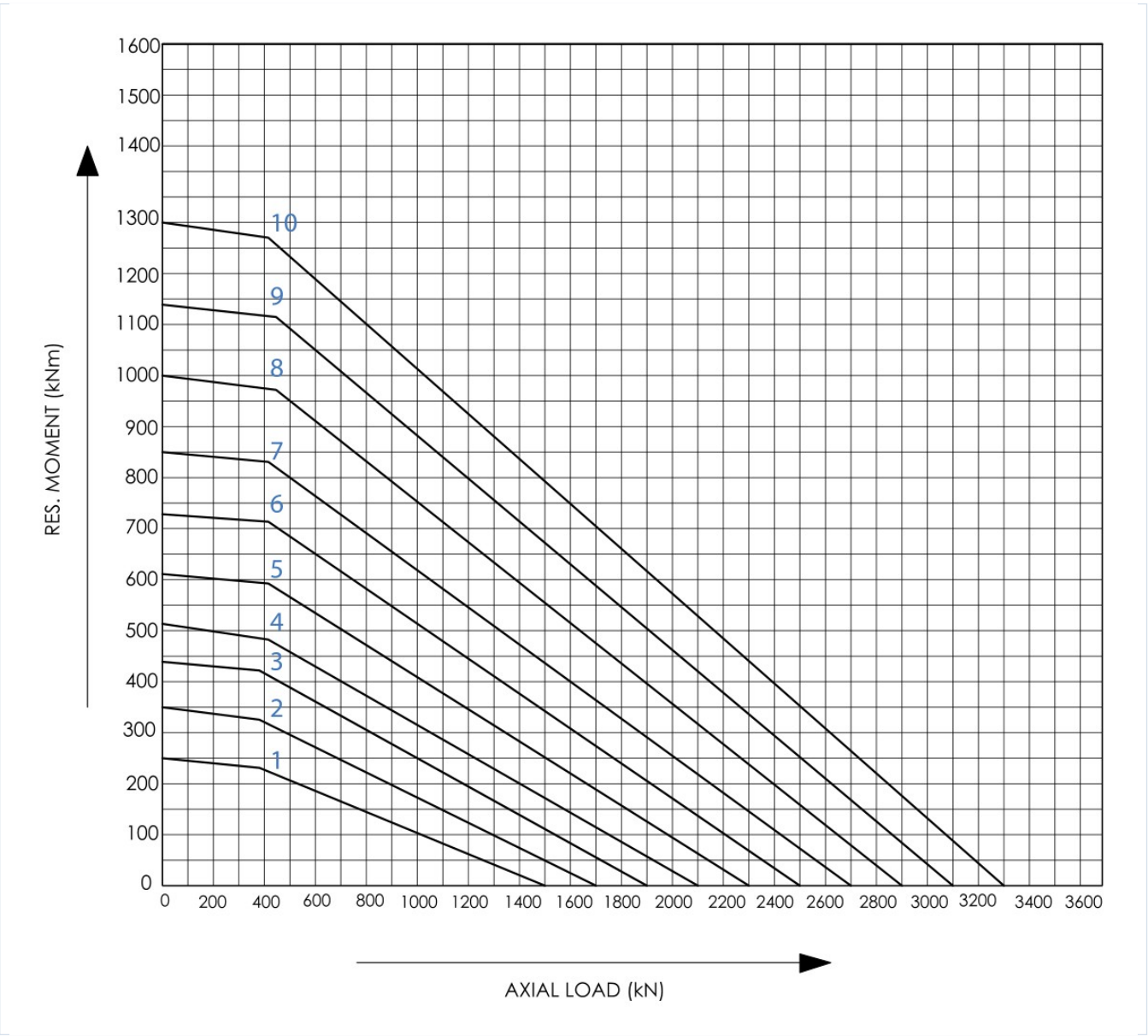
Complete Product Data

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	104 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	48 holes - de 22 mm
Inner ring mounting	48 holes - di 22 mm
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	160
SOURCE TRACEABILITY	
Source document code	TIBET_MAKINA_2015_CATALOG
Source file	tibet_makina_2015.pdf
PDF page	46
Printed page	46
Source language	TR-EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	single_row_roller_external-static-load-curve.webp SHA-256: 99cbbd15f121c253d8eb2404716a7541e7d71b95c213933a9e16bb0c8a15cde1
Outline Drawing	single_row_roller_external-drawing.webp SHA-256: 00c3d3157b7b8e8392716c996ac655ece0383a649e35bd0943fb3d56cf a8ed53

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.



single_row_roller_external-static-load-curve.webp | SHA-256:
99cbbd15f121c253d8eb2404716a7541e7d71b95c213933a9e16bb0c8a15cde1

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**RR5TD6JAQLXYDECDEACOM3BUIZ****SOURCE DOCUMENT****TIBET_MAKINA_2015_CATALOG****SOURCE FILE****tibet_makina_2015.pdf****SOURCE LOCATION****PDF page 46 | Printed page 46****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 17705201170Product page: <https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/tibet-makina/1450e-12r-100/>

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