

Factory-Verified Replacement

MERYDOM 0644E-12B-102

Certified for interchange with Tibet Makina 0644E-12B-102. 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
0644E-12B-102

REFERENCE
Tibet Makina 0644E-12B-102

SERIES
L_EXTERNAL Series

STRUCTURE
Single Row Ball Profile

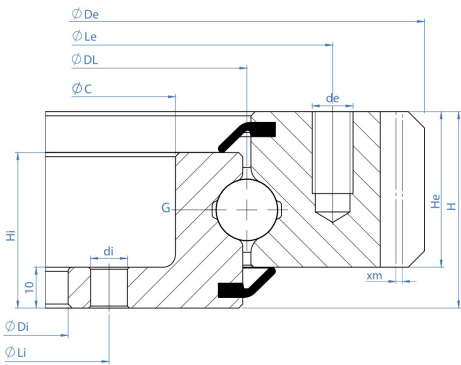
OVERALL OD
744 mm

OVERALL ID
534 mm

OVERALL HEIGHT
56 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	0644E-12B-102
Certified interchangeable with	Tibet Makina 0644E-12B-102
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	O6ZD7KHER2D4AFDYGNK2FO5MLL
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	L_EXTERNAL Series
Reference model	0644E-12B-102
Bearing structure	Single Row Ball Profile
Gear arrangement	External gear
DIMENSION	
Mass (Kg)	48 kg
Overall outside diameter (De)	744 mm
Overall inside diameter (Di)	534 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)	
Tibet catalogue dimension C (C)	605 mm
Overall height (H)	56 mm
Outer ring height (He)	46 mm
Inner ring height (Hi)	46 mm
MOUNTING	
Outer ring bolt circle (La)	690 mm
Inner ring bolt circle (Li)	562 mm
Outer ring mounting-hole count (ne)	16
Inner ring mounting-hole count (ni)	32
Outer ring mounting-hole specification (de)	M12 mm
Inner ring mounting-hole specification (di)	18 mm
GEAR	
Gear module (m)	6 mm
Gear tooth count (z)	122
PERFORMANCE	
Normal tooth force (Ft_normal)	14 kN
Maximum tooth force (Ft_max)	28 kN
MISCELLANEOUS	
Raceway Pitch Diameter (DL)	644 mm
Lubrication Zerk Count (G)	4

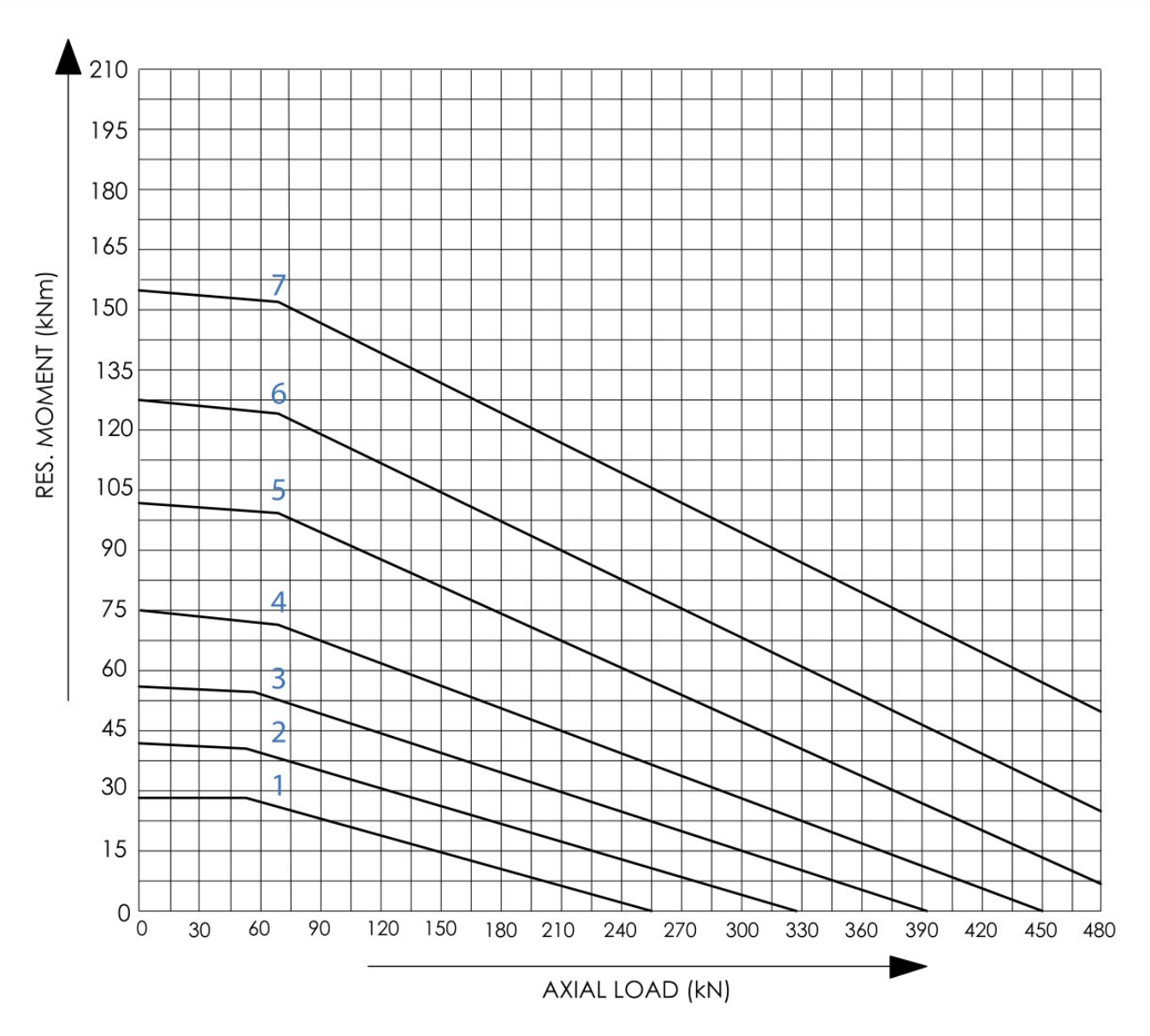
Complete Product Data

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	14 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	28 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	16 holes - de M12 mm
Inner ring mounting	32 holes - di 18 mm
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	122
SOURCE TRACEABILITY	
Source document code	TIBET_MAKINA_2015_CATALOG
Source file	tibet_makina_2015.pdf
PDF page	34
Printed page	34
Source language	TR-EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	I_external-static-load-curve.webp SHA-256: f0eab3c4dda48131dc53975336141a4321b9f63889d256994e3ce891f3c28929
Outline Drawing	I_external-drawing.webp SHA-256: b8c2c925fd266934d4e719faca1b12b03812e0849e7d12900f862fadd95bb87e

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.



I_external-static-load-curve.webp | SHA-256: f0eab3c4dda48131dc53975336141a4321b9f63889d256994e3ce891f3c28929

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 O6ZD7KHER2D4AFDYGNK2FO5MLL	SOURCE DOCUMENT TIBET_MAKINA_2015_CATALOG
SOURCE FILE tibet_makina_2015.pdf	SOURCE LOCATION PDF page 34 Printed page 34
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/0644e-12b-102/>

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