

Factory-Verified Replacement

MERYDOM 0644R-12B-102

Certified for interchange with Tibet Makina 0644R-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
0644R-12B-102

REFERENCE
Tibet Makina 0644R-12B-102

SERIES
L_UNGEARED Series

STRUCTURE
Single Row Ball Profile

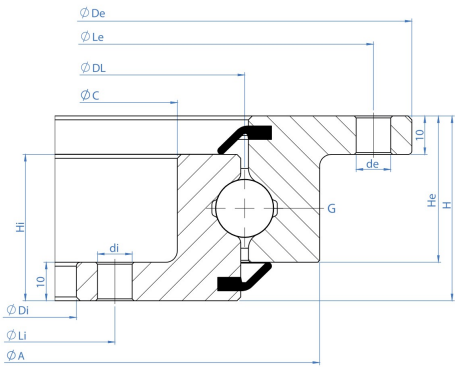
OVERALL OD
750 mm

OVERALL ID
534 mm

OVERALL HEIGHT
56 mm

GEAR
Ungeared

Published Technical Drawing



I_ungeared-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	0644R-12B-102
Certified interchangeable with	Tibet Makina 0644R-12B-102
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	3RYQ7CUPCHMXNH4DGOAMPJNFAW
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_UNGEARED Series
Reference model	0644R-12B-102
Bearing structure	Single Row Ball Profile
Gear arrangement	Ungeared
DIMENSION	
Mass (Kg)	37 kg
Overall outside diameter (De)	750 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 A (A)	683 mm
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)	720 mm
Inner ring bolt circle (Li)	562 mm
Outer ring mounting-hole count (ne)	16
Inner ring mounting-hole count (ni)	20
Outer ring mounting-hole specification (de)	18 mm
Inner ring mounting-hole specification (di)	18 mm
MISCELLANEOUS	
Raceway Pitch Diameter (DL)	644 mm
Lubrication Zerk Count (G)	4
MOUNTING INTERFACES	
Outer ring mounting	16 holes - de 18 mm
Inner ring mounting	20 holes - di 18 mm
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing

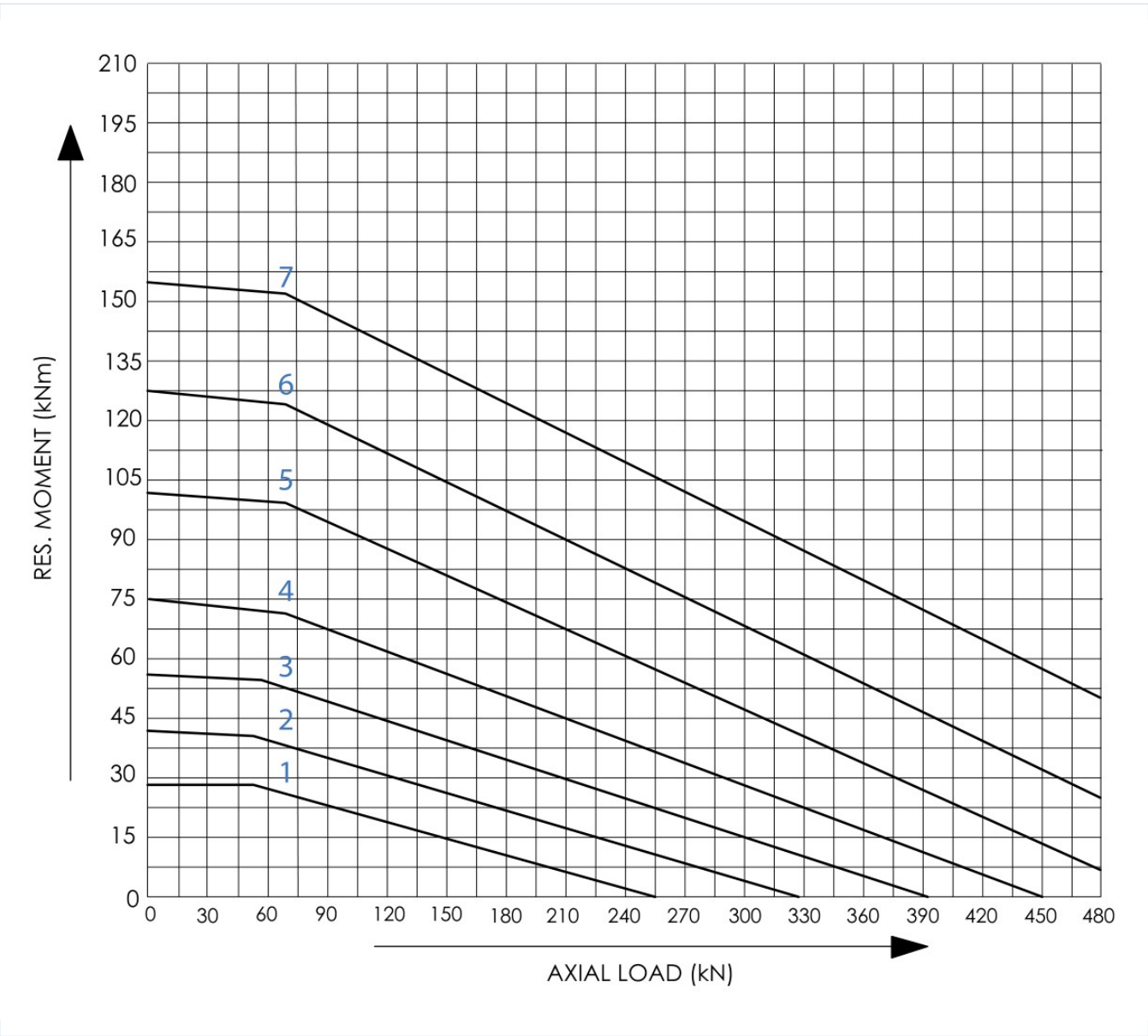
Complete Product Data

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

SOURCE TRACEABILITY	
Source document code	TIBET_MAKINA_2015_CATALOG
Source file	tibet_makina_2015.pdf
PDF page	33
Printed page	33
Source language	TR-EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	I_ungeared-static-load-curve.webp SHA-256: 0674a03d68c9e322cf0eb5b07a69f398b42b2155aac5cb1e4d31b44cc7c58030
Outline Drawing	I_ungeared-drawing.webp SHA-256: b71fc8f2be30928374664ec6615052238bf312fe86a1c5eca0346ed63b384d6e

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_ungearred-static-load-curve.webp | SHA-256: 0674a03d68c9e322cf0eb5b07a69f398b42b2155aac5cb1e4d31b44cc7c58030

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

3RYQ7CUPCHMXNH4DGOAMPJNFAW

SOURCE DOCUMENT

TIBET_MAKINA_2015_CATALOG

SOURCE FILE

tibet_makina_2015.pdf

SOURCE LOCATION

PDF page 33 | Printed page 33

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 17705201170

Product page: <https://rotnex.com/products/slewing-bearing-replacements/tibet-makina/0644r-12b-102/>

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