

Factory-Verified Replacement

MERYDOM 0544I-12B-102

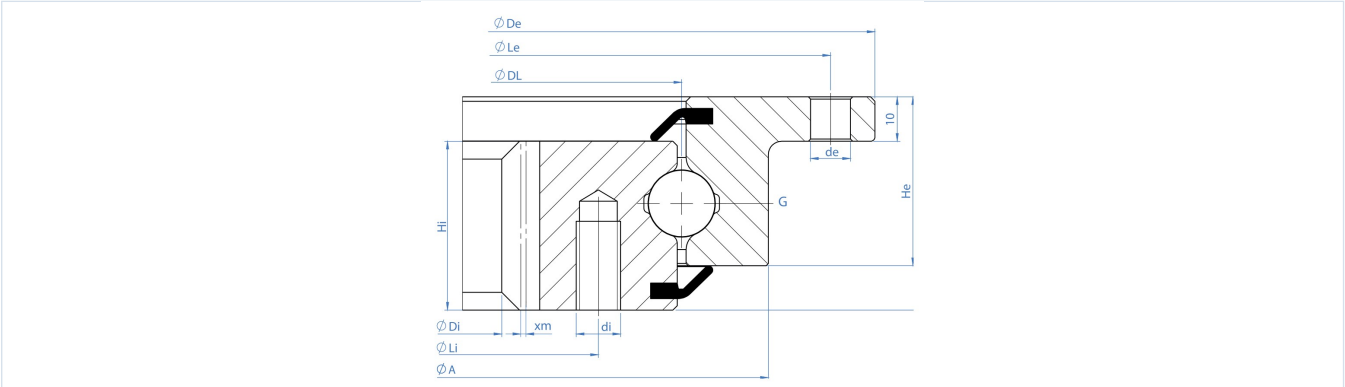
Certified for interchange with Tibet Makina 0544I-12B-102. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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	REFERENCE
0544I-12B-102	Tibet Makina 0544I-12B-102
SERIES	STRUCTURE
L_INTERNAL Series	Single Row Ball Profile
OVERALL OD	OVERALL ID
650 mm	444 mm
OVERALL HEIGHT	GEAR
56 mm	Engrenagem interna

Published Technical Drawing



I_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	0544I-12B-102
Certified interchangeable with	Tibet Makina 0544I-12B-102
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	QOE47MM2H7TWN22UCBG6AYZLLK
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_INTERNAL Series
Reference model	0544I-12B-102
Bearing structure	Single Row Ball Profile
Gear arrangement	Engrenagem interna
DIMENSION	
Mass (Kg)	43 kg
Overall outside diameter (De)	650 mm
Overall inside diameter (Di)	444 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)	583 mm
Overall height (H)	56 mm
Outer ring height (He)	46 mm
Inner ring height (Hi)	46 mm
MOUNTING	
Outer ring bolt circle (La)	620 mm
Inner ring bolt circle (Li)	495 mm
Outer ring mounting-hole count (ne)	20
Inner ring mounting-hole count (ni)	16
Outer ring mounting-hole specification (de)	18 mm
Inner ring mounting-hole specification (di)	M12 mm
GEAR	
Gear module (m)	6 mm
Gear tooth count (z)	76
PERFORMANCE	
Normal tooth force (Ft_normal)	16 kN
Maximum tooth force (Ft_max)	32 kN
MISCELLANEOUS	
Raceway Pitch Diameter (DL)	544 mm
Lubrication Zerk Count (G)	4

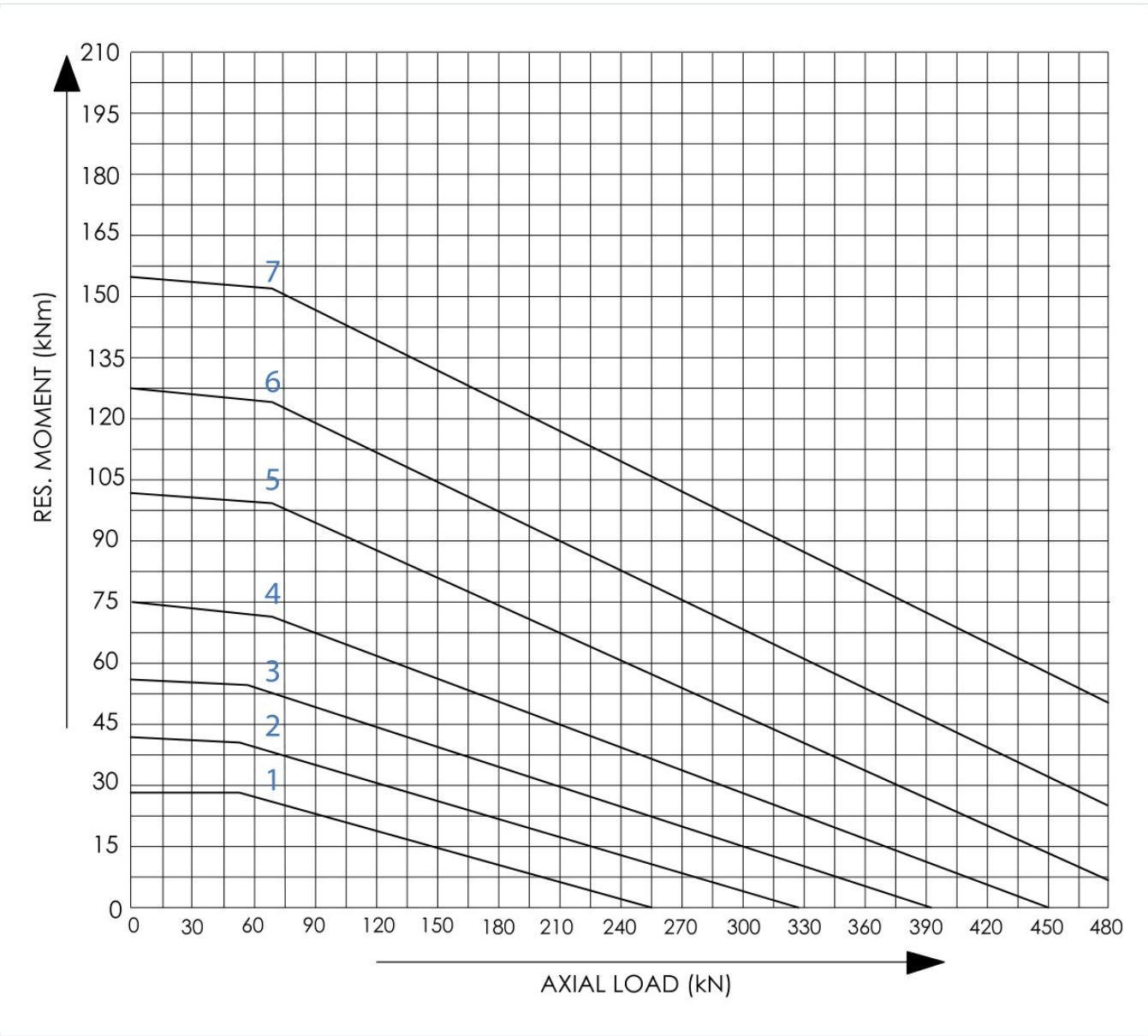
Complete Product Data

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	16 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	32 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	20 holes - de 18 mm
Inner ring mounting	16 holes - di M12 mm
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	76
SOURCE TRACEABILITY	
Source document code	TIBET_MAKINA_2015_CATALOG
Source file	tibet_makina_2015.pdf
PDF page	35
Printed page	35
Source language	TR-EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	I_internal-static-load-curve.webp SHA-256: 27f41d99aaa336f85df9f1e001953068a2498ce71eb148989f04bf7c59 efa497
Outline Drawing	I_internal-drawing.webp SHA-256: a5e82a5eb2a7a7b70e4283e05e3d839839982c0a9530ba6bcd3dc36b51 436133

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_internal-static-load-curve.webp | SHA-256: 27f41d99aaa336f85df9f1e001953068a2498ce71eb148989f04bf7c59efa497

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 QOE47MM2H7TWN22UCBG6AYZLLK	SOURCE DOCUMENT TIBET_MAKINA_2015_CATALOG
SOURCE FILE tibet_makina_2015.pdf	SOURCE LOCATION PDF page 35 Printed page 35
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/pt/produtos/rolamentos-de-giro-de-substituicao/tibet-makina/0544i-12b-102/>

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