

Factory-Verified Replacement

MERYDOM 0744I-12B-101

Certified for interchange with Tibet Makina 0744I-12B-101. 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

0744I-12B-101

REFERENCE

Tibet Makina 0744I-12B-101

SERIES

L\_INTERNAL Series

STRUCTURE

Single Row Ball Profile

OVERALL OD

850 mm

OVERALL ID

648 mm

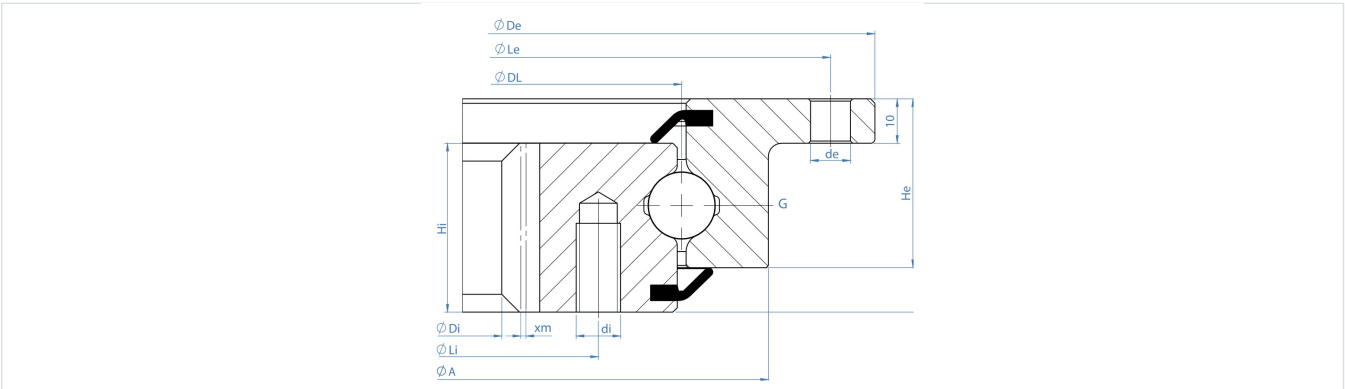
OVERALL HEIGHT

56 mm

GEAR

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                        | 0744I-12B-101                          |
| Certified interchangeable with       | Tibet Makina 0744I-12B-101             |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | PZQKQW6UKEHASXH6FLG6SY4DZV             |
| 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                      | 0744I-12B-101                          |
| Bearing structure                    | Single Row Ball Profile                |
| Gear arrangement                     | Engrenagem interna                     |
| DIMENSION                            |                                        |
| Mass (Kg)                            | 58 kg                                  |
| Overall outside diameter (De)        | 850 mm                                 |
| Overall inside diameter (Di)         | 648 mm                                 |

Complete Product Data

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| DIMENSION (CONTINUED)                       |        |
|---------------------------------------------|--------|
| Tibet catalogue dimension A (A)             | 783 mm |
| Overall height (H)                          | 56 mm  |
| Outer ring height (He)                      | 46 mm  |
| Inner ring height (Hi)                      | 46 mm  |
| MOUNTING                                    |        |
| Outer ring bolt circle (La)                 | 820 mm |
| Inner ring bolt circle (Li)                 | 700 mm |
| Outer ring mounting-hole count (ne)         | 24     |
| Inner ring mounting-hole count (ni)         | 20     |
| 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)                        | 110    |
| PERFORMANCE                                 |        |
| Normal tooth force (Ft_normal)              | 16 kN  |
| Maximum tooth force (Ft_max)                | 32 kN  |
| MISCELLANEOUS                               |        |
| Raceway Pitch Diameter (DL)                 | 744 mm |
| Lubrication Zerk Count (G)                  | 4      |

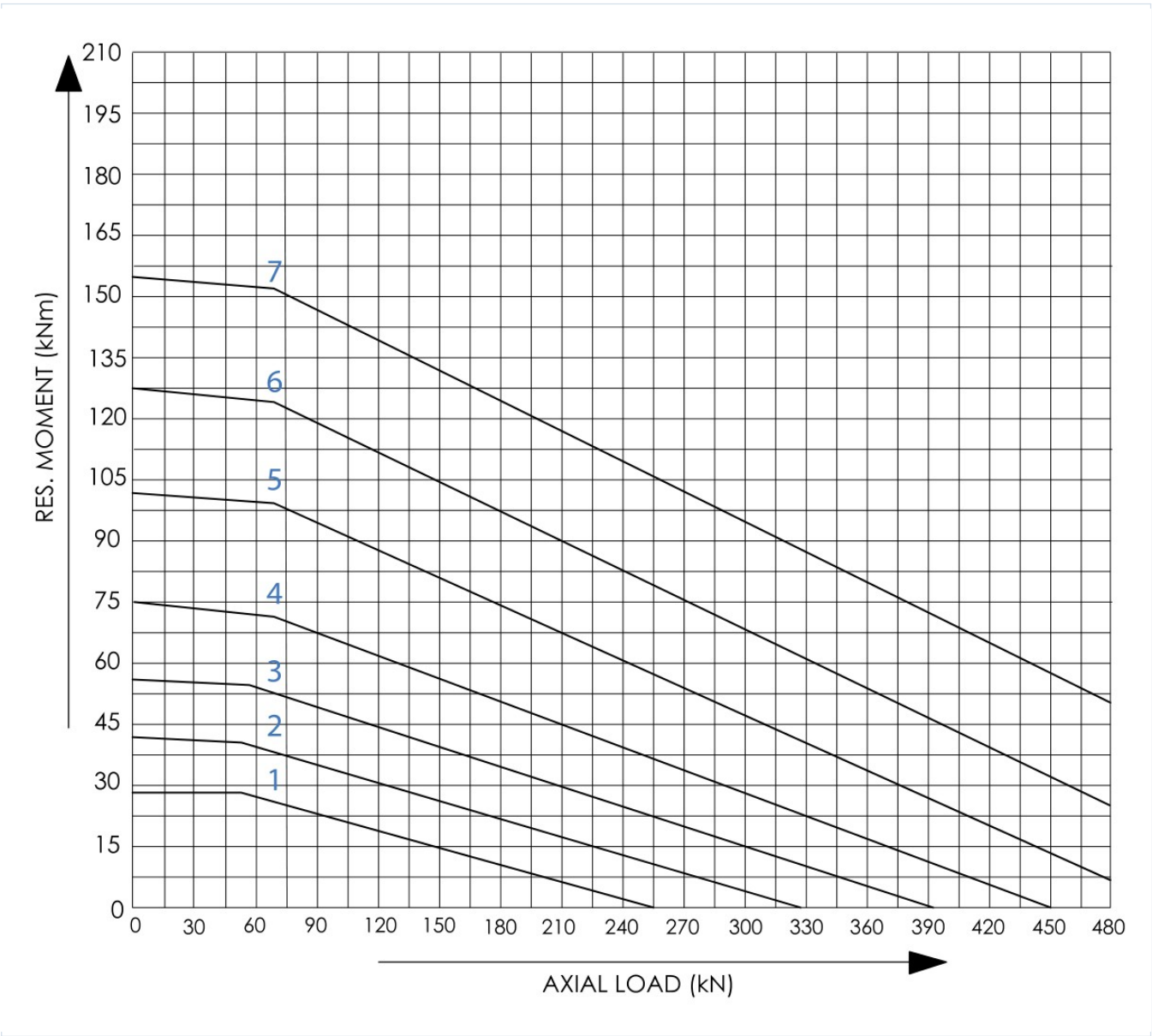
Complete Product Data

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       | 24 holes - de 18 mm                                                                                                  |
| Inner ring mounting       | 20 holes - di M12 mm                                                                                                 |
| GEAR INTERFACE            |                                                                                                                      |
| Pitch system              | module                                                                                                               |
| Module reference          | 6 mm                                                                                                                 |
| Number of teeth           | 110                                                                                                                  |
| 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:<br>27f41d99aaa336f85df9f1e001953068a2498ce71eb148989f04bf7c59<br>efa497 |
| Outline Drawing           | I_internal-drawing.webp   SHA-256:<br>a5e82a5eb2a7a7b70e4283e05e3d839839982c0a9530ba6bcd3dc36b51<br>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****PZQKQW6UKEHASXH6FLG6SY4DZV****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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