

Factory-Verified Replacement

MERYDOM 1421R-12B-200

Certified for interchange with Tibet Makina 1421R-12B-200. 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

1421R-12B-200

REFERENCE

Tibet Makina 1421R-12B-200

SERIES

DOUBLE\_ROW\_BALL\_UNGEARED Series

STRUCTURE

Rolamento de esferas de duas carreiras

OVERALL OD

1,535 mm

OVERALL ID

1,315 mm

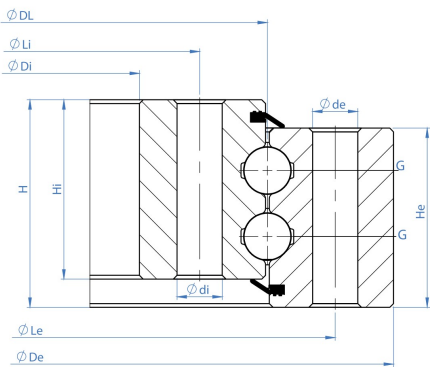
OVERALL HEIGHT

102 mm

GEAR

Sem engrenagem

Published Technical Drawing



double\_row\_ball\_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                        | 1421R-12B-200                          |
| Certified interchangeable with       | Tibet Makina 1421R-12B-200             |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | DGDT5Q6TUJ4DW7I6EPPIONOD3W             |
| 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                     | DOUBLE_ROW_BALL_UNGEARED Series        |
| Reference model                      | 1421R-12B-200                          |
| Bearing structure                    | Rolamento de esferas de duas carreiras |
| Gear arrangement                     | Sem engrenagem                         |
| DIMENSION                            |                                        |
| Mass (Kg)                            | 290 kg                                 |
| Overall outside diameter (De)        | 1.535 mm                               |
| Overall inside diameter (Di)         | 1.315 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)                          | 102 mm                            |
| Outer ring height (He)                      | 92 mm                             |
| Inner ring height (Hi)                      | 92 mm                             |
| MOUNTING                                    |                                   |
| Outer ring bolt circle (Le)                 | 1.413 mm                          |
| Inner ring bolt circle (Li)                 | 1.353 mm                          |
| Outer ring mounting-hole count (ne)         | 42                                |
| Inner ring mounting-hole count (ni)         | 42                                |
| Outer ring mounting-hole specification (de) | 21 mm                             |
| Inner ring mounting-hole specification (di) | 21 mm                             |
| MISCELLANEOUS                               |                                   |
| Raceway Pitch Diameter (DL)                 | 1.421 mm                          |
| Lubrication Zerk Count (G)                  | 4                                 |
| MOUNTING INTERFACES                         |                                   |
| Outer ring mounting                         | 42 holes - de 21 mm               |
| Inner ring mounting                         | 42 holes - di 21 mm               |
| GEAR INTERFACE                              |                                   |
| Integral gear                               | Not applicable - ungeared bearing |
| SOURCE TRACEABILITY                         |                                   |
| Source document code                        | TIBET_MAKINA_2015_CATALOG         |
| Source file                                 | tibet_makina_2015.pdf             |

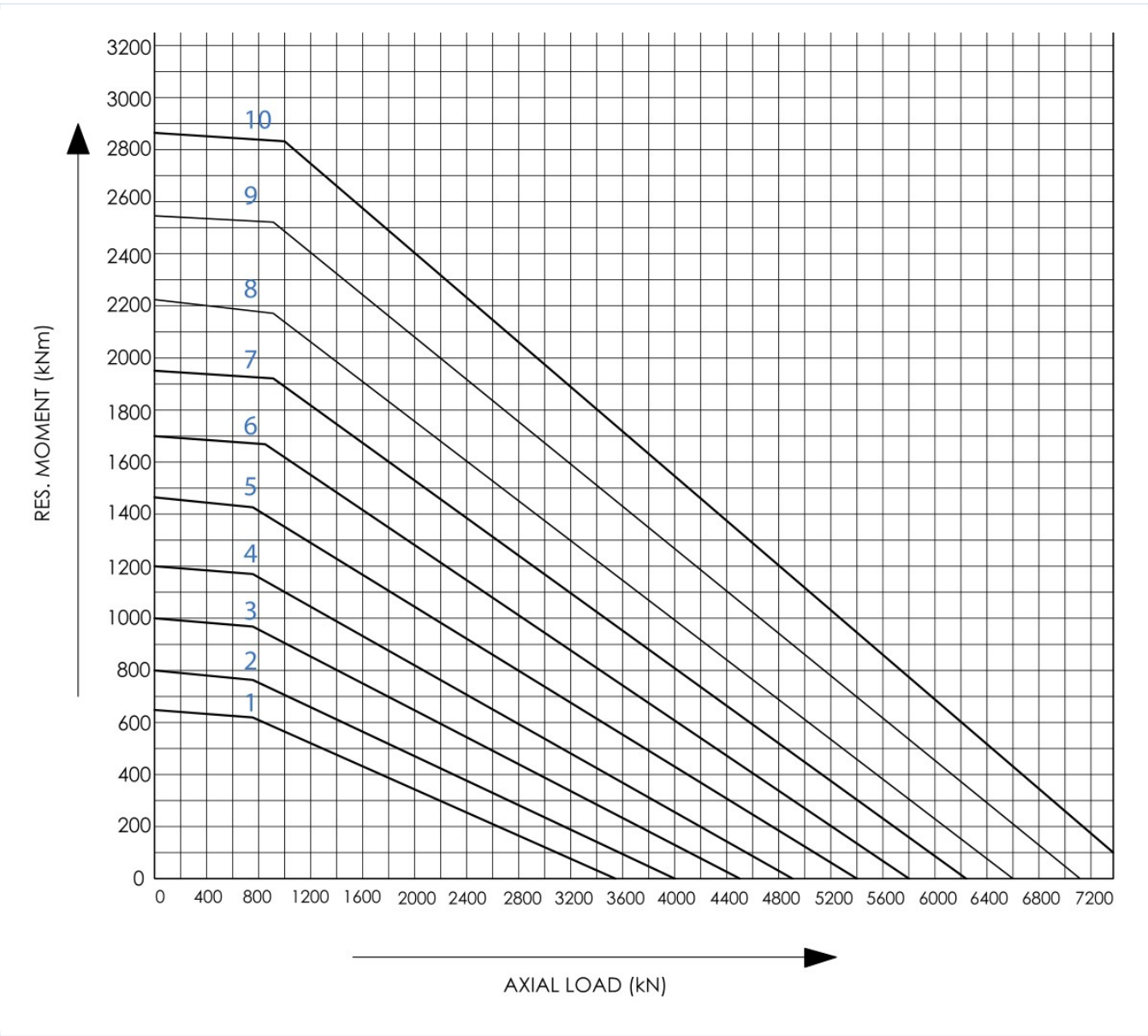
Complete Product Data

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 (CONTINUED) |                                                                                                                                    |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| PDF page                        | 41                                                                                                                                 |
| Printed page                    | 41                                                                                                                                 |
| Source language                 | TR-EN                                                                                                                              |
| Original unit system            | Metric                                                                                                                             |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                                                    |
| Load Curve Chart                | double_row_ball_ungeared-static-load-curve.webp   SHA-256:<br>c5be3762b4075df2a716d1f63e693446d8b6f6c0f456f518acc66de753<br>fef280 |
| Outline Drawing                 | double_row_ball_ungeared-drawing.webp   SHA-256:<br>33b77549fe0f74a332cee23144f4bd04c745cdb3db3cef11406fd76487<br>a908b4           |

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.



double\_row\_ball\_ungeared-static-load-curve.webp | SHA-256:  
c5be3762b4075df2a716d1f63e693446d8b6f6c0f456f518acc66de753fef280

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

DGDT5Q6TUJ4DW7I6EPPIONOD3W

### SOURCE DOCUMENT

TIBET\_MAKINA\_2015\_CATALOG

### SOURCE FILE

tibet\_makina\_2015.pdf

### SOURCE LOCATION

PDF page 41 | Printed page 41

### 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](mailto:jovi@merydom.com) | Email: [andi@merydom.com](mailto:andi@merydom.com) | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/pt/produtos/rolamentos-de-giro-de-substituicao/tibet-makina/1421r-12b-200/>

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