

Factory-Verified Replacement

MERYDOM 0850I-12R-100

Certified for interchange with Tibet Makina 0850I-12R-100. 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

0850I-12R-100

REFERENCE

Tibet Makina 0850I-12R-100

SERIES

SINGLE_ROW_ROLLER_INTERNAL Series

STRUCTURE

Single Row Roller

OVERALL OD

970 mm

OVERALL ID

680 mm

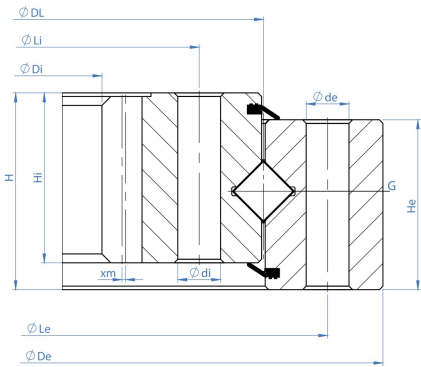
OVERALL HEIGHT

80 mm

GEAR

Internal gear

Published Technical Drawing



single_row_roller_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	0850I-12R-100
Certified interchangeable with	Tibet Makina 0850I-12R-100
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	VAK7QIQXM5KDQONPNZGIQTBZFT
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	SINGLE_ROW_ROLLER_INTERNAL Series
Reference model	0850I-12R-100
Bearing structure	Single Row Roller
Gear arrangement	Internal gear
DIMENSION	
Mass (Kg)	180 kg
Overall outside diameter (De)	970 mm
Overall inside diameter (Di)	680 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)	80 mm
Outer ring height (He)	70 mm
Inner ring height (Hi)	70 mm
MOUNTING	
Outer ring bolt circle (Le)	925 mm
Inner ring bolt circle (Li)	775 mm
Outer ring mounting-hole count (ne)	30
Inner ring mounting-hole count (ni)	30
Outer ring mounting-hole specification (de)	22 mm
Inner ring mounting-hole specification (di)	22 mm
GEAR	
Gear module (m)	10 mm
Gear tooth count (z)	70
PERFORMANCE	
Normal tooth force (Ft_normal)	54 kN
Maximum tooth force (Ft_max)	108 kN
MISCELLANEOUS	
Raceway Pitch Diameter (DL)	850 mm
Lubrication Zerk Count (G)	4
PERFORMANCE RATINGS	
Rating Tooth Force Normal	54 kN Not simultaneous with other listed dynamic ratings

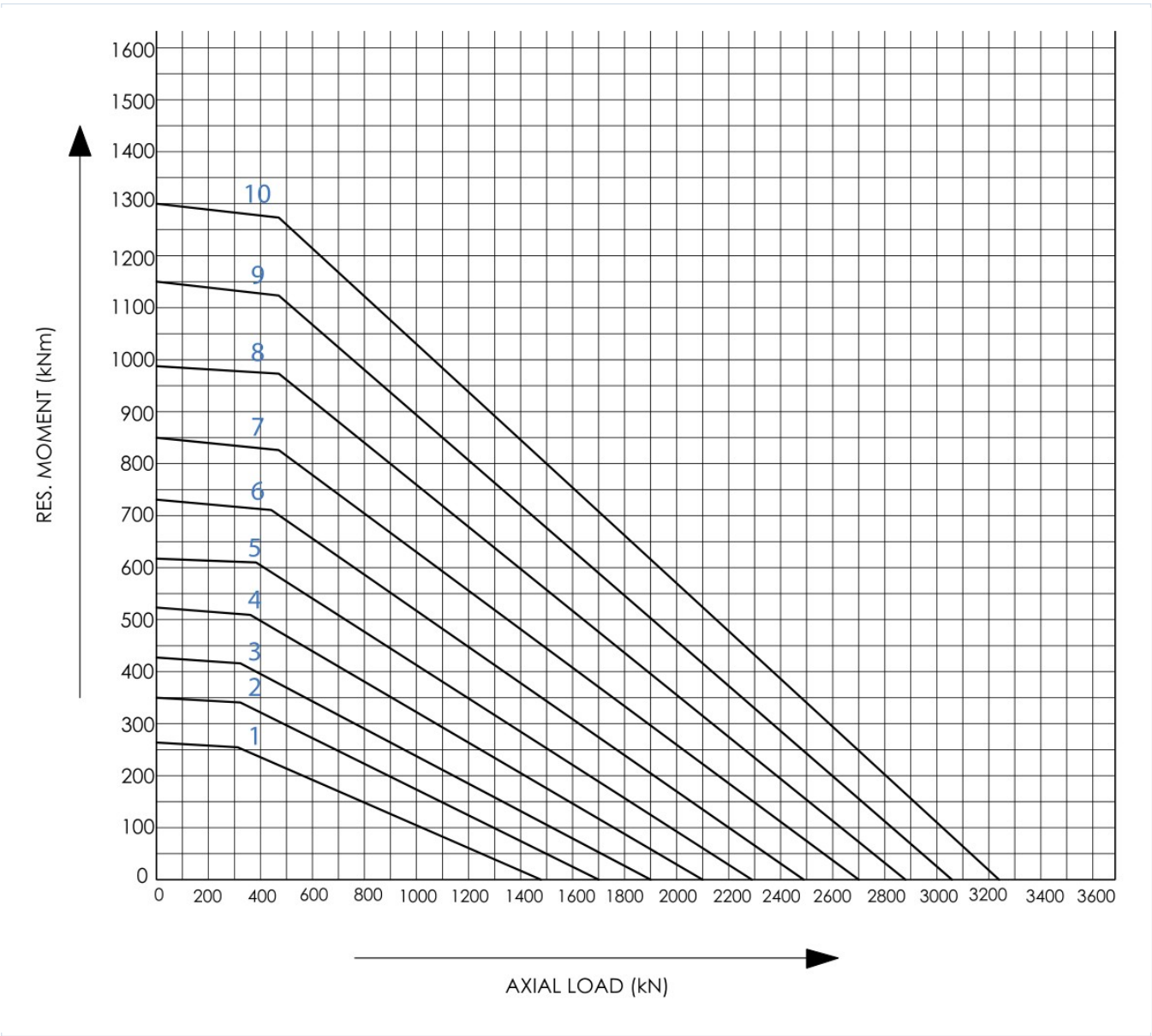
Complete Product Data

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 (CONTINUED)	
Rating Tooth Force Max	108 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	30 holes - de 22 mm
Inner ring mounting	30 holes - di 22 mm
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	70
SOURCE TRACEABILITY	
Source document code	TIBET_MAKINA_2015_CATALOG
Source file	tibet_makina_2015.pdf
PDF page	47
Printed page	47
Source language	TR-EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	single_row_roller_internal-static-load-curve.webp SHA-256: 1f57508e685a83933fc18281b8a2ce4b69c6233031f8746f9e5dacc09 fbdab5
Outline Drawing	single_row_roller_internal-drawing.webp SHA-256: db33cdc438473d3e76b0d23fbe532e652ffa924a88fee3b09c42671e6d dba95b

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.



single_row_roller_internal-static-load-curve.webp | SHA-256:
1f57508e685a83933fc18281b8a2ce4b69c6233031f8746fafe5dacc09fbdab5

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 VAK7QIQXM5KDQONPNZGIQTBZFT	SOURCE DOCUMENT TIBET_MAKINA_2015_CATALOG
SOURCE FILE tibet_makina_2015.pdf	SOURCE LOCATION PDF page 47 Printed page 47
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/0850i-12r-100/>

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