

Factory-Verified Replacement

MERYDOM 1640E-12R-300

Certified for interchange with Tibet Makina 1640E-12R-300. 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
1640E-12R-300

REFERENCE
Tibet Makina 1640E-12R-300

SERIES
THREE_ROW_ROLLER_EXTERNAL Series

STRUCTURE
Three-row roller

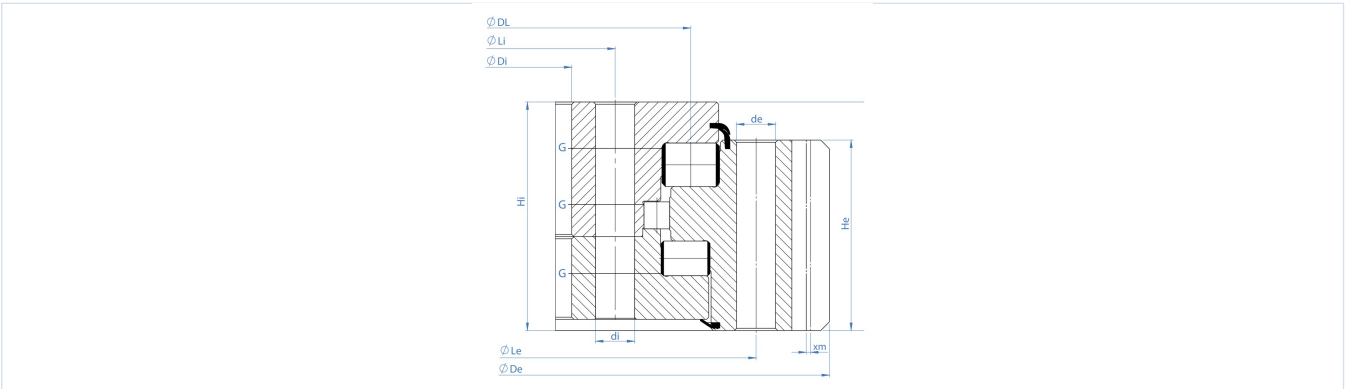
OVERALL OD
1,848 mm

OVERALL ID
1,489 mm

OVERALL HEIGHT
132 mm

GEAR
External gear

Published Technical Drawing



three_row_roller_external-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	1640E-12R-300
Certified interchangeable with	Tibet Makina 1640E-12R-300
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	2SQIB66JKYF3SOG7ZRO4EMUN6J
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	THREE_ROW_ROLLER_EXTERNAL Series
Reference model	1640E-12R-300
Bearing structure	Three-row roller
Gear arrangement	External gear
DIMENSION	
Mass (Kg)	770 kg
Overall outside diameter (De)	1,848 mm
Overall inside diameter (Di)	1,489 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)	132 mm
Outer ring height (He)	106 mm
Inner ring height (Hi)	123 mm
MOUNTING	
Outer ring bolt circle (Le)	1,741 mm
Inner ring bolt circle (Li)	1,542 mm
Outer ring mounting-hole count (ne)	48
Inner ring mounting-hole count (ni)	48
Outer ring mounting-hole specification (de)	26 mm
Inner ring mounting-hole specification (di)	26 mm
GEAR	
Gear module (m)	14 mm
Gear tooth count (z)	130
PERFORMANCE	
Normal tooth force (Ft_normal)	118 kN
Maximum tooth force (Ft_max)	236 kN
MISCELLANEOUS	
Raceway Pitch Diameter (DL)	1,600 mm
Lubrication Zerk Count (G)	9
PERFORMANCE RATINGS	

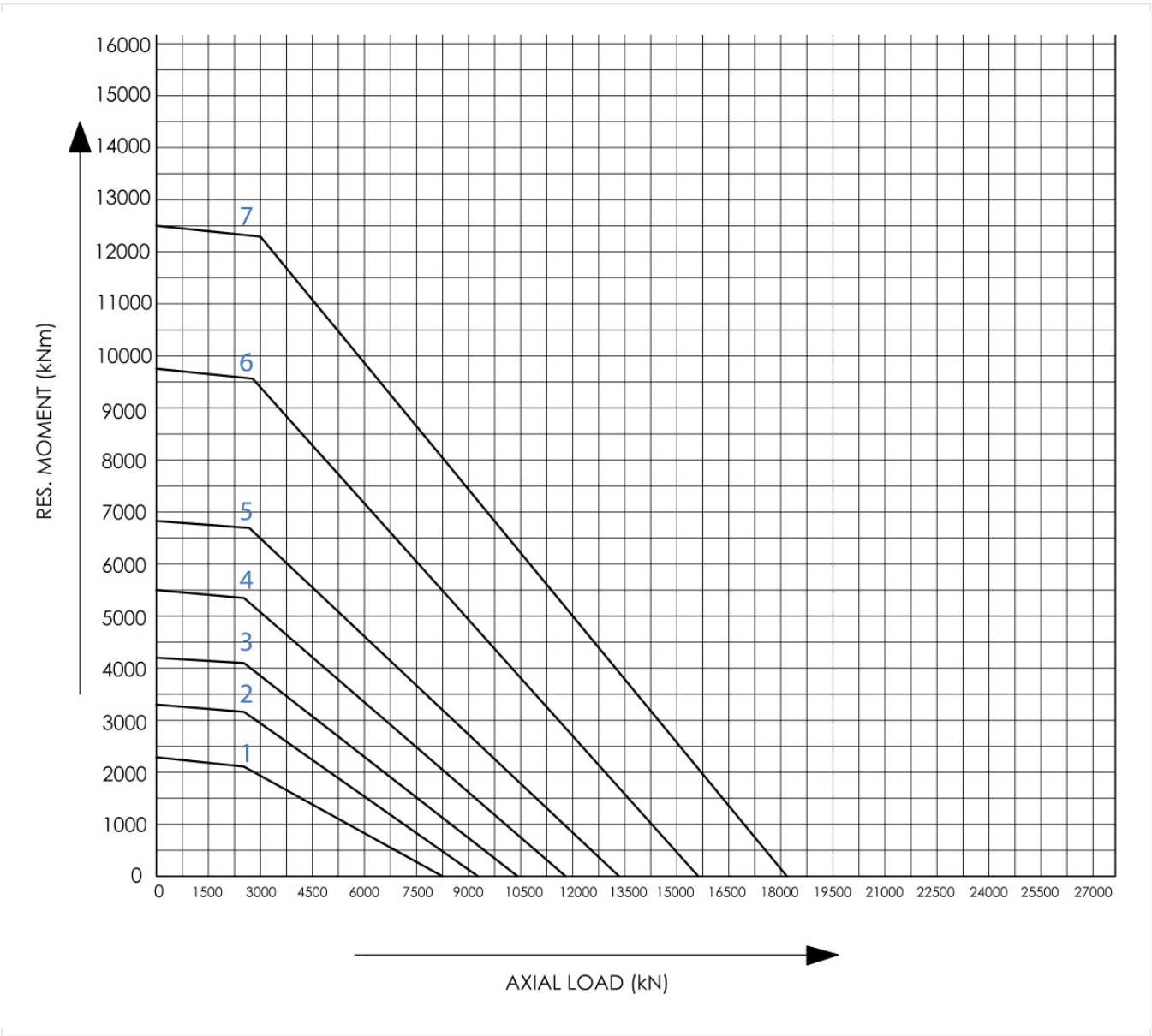
Complete Product Data

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PERFORMANCE RATINGS (CONTINUED)	
Rating Tooth Force Normal	118 kN Not simultaneous with other listed dynamic ratings
Rating Tooth Force Max	236 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	48 holes - de 26 mm
Inner ring mounting	48 holes - di 26 mm
GEAR INTERFACE	
Pitch system	module
Module reference	14 mm
Number of teeth	130
SOURCE TRACEABILITY	
Source document code	TIBET_MAKINA_2015_CATALOG
Source file	tibet_makina_2015.pdf
PDF page	50
Printed page	50
Source language	TR-EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	three_row_roller_external-static-load-curve.webp SHA-256: 9a0c070dee20ffd6e30589bc41a32aaf41d16ada38035718b5429329abe8a322
Outline Drawing	three_row_roller_external-drawing.webp SHA-256: f4ec04266cc0407f381bcbbcf97165d4eeae1bd2cf54cc3039c7a6e37b27aa0d

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.



three_row_roller_external-static-load-curve.webp | SHA-256:
9a0c070dee20ffd6e30589bc41a32aaf41d16ada38035718b5429329abe8a322

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 2SQIB66JKYF3SOG7ZRO4EMUN6J	SOURCE DOCUMENT TIBET_MAKINA_2015_CATALOG
SOURCE FILE tibet_makina_2015.pdf	SOURCE LOCATION PDF page 50 Printed page 50
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/1640e-12r-300/>

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