

Factory-Verified Replacement

MERYDOM 1455E-12B-101

Certified for interchange with Tibet Makina 1455E-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
1455E-12B-101

REFERENCE
Tibet Makina 1455E-12B-101

SERIES
FOUR_POINT_EXTERNAL Series

STRUCTURE
Four-point contact ball

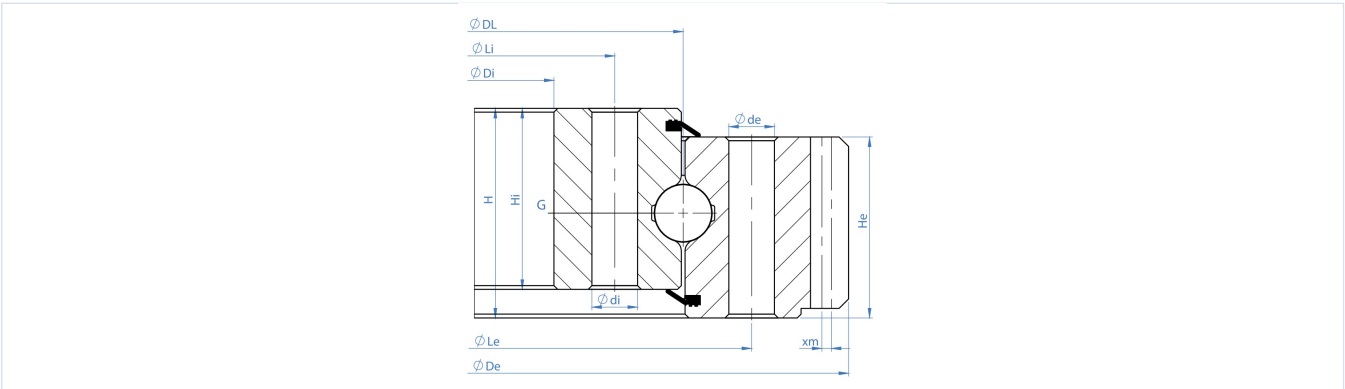
OVERALL OD
1,600 mm

OVERALL ID
1,355 mm

OVERALL HEIGHT
80 mm

GEAR
External gear

Published Technical Drawing



four_point_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	1455E-12B-101
Certified interchangeable with	Tibet Makina 1455E-12B-101
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	JYZDQXXO3KDPOL54ZEYP7QU7D7
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	FOUR_POINT_EXTERNAL Series
Reference model	1455E-12B-101
Bearing structure	Four-point contact ball
Gear arrangement	External gear
DIMENSION	
Mass (Kg)	275 kg
Overall outside diameter (De)	1,600 mm
Overall inside diameter (Di)	1,355 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)	1,516 mm
Inner ring bolt circle (Li)	1,395 mm
Outer ring mounting-hole count (ne)	48
Inner ring mounting-hole count (ni)	48
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)	158
PERFORMANCE	
Normal tooth force (Ft_normal)	52 kN
Maximum tooth force (Ft_max)	104 kN
MISCELLANEOUS	
Raceway Pitch Diameter (DL)	1,455 mm
Lubrication Zerk Count (G)	6
PERFORMANCE RATINGS	
Rating Tooth Force Normal	52 kN Not simultaneous with other listed dynamic ratings

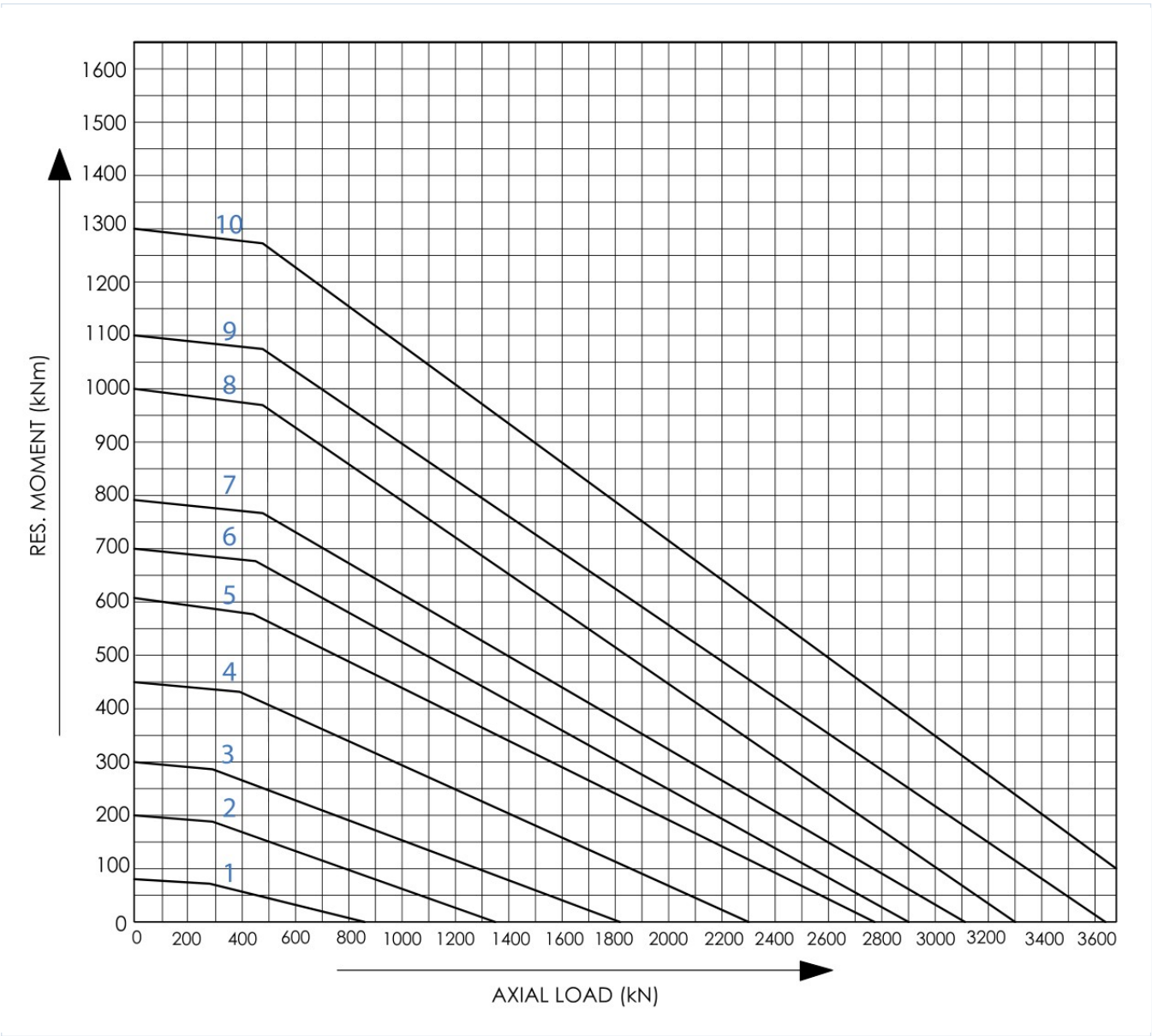
Complete Product Data

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	104 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	48 holes - de 22 mm
Inner ring mounting	48 holes - di 22 mm
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	158
SOURCE TRACEABILITY	
Source document code	TIBET_MAKINA_2015_CATALOG
Source file	tibet_makina_2015.pdf
PDF page	38
Printed page	38
Source language	TR-EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	four_point_external-static-load-curve.webp SHA-256: 426eaa3b8536155745593e633d891e075d05ebff2e6937c4f48a2b407d7d4e90
Outline Drawing	four_point_external-drawing.webp SHA-256: fab3f40746f3c0bd7981386d4c06ba1115cf219f3b2ef03fa0021620de6aac2f

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.



four_point_external-static-load-curve.webp | SHA-256:
426eaa3b8536155745593e633d891e075d05ebff2e6937c4f48a2b407d7d4e90

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 JYZDQXXO3KDPOL54ZEYP7QU7D7	SOURCE DOCUMENT TIBET_MAKINA_2015_CATALOG
SOURCE FILE tibet_makina_2015.pdf	SOURCE LOCATION PDF page 38 Printed page 38
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/1455e-12b-101/>

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