

Factory-Verified Replacement

MERYDOM 061.20.1094.500.01.1503

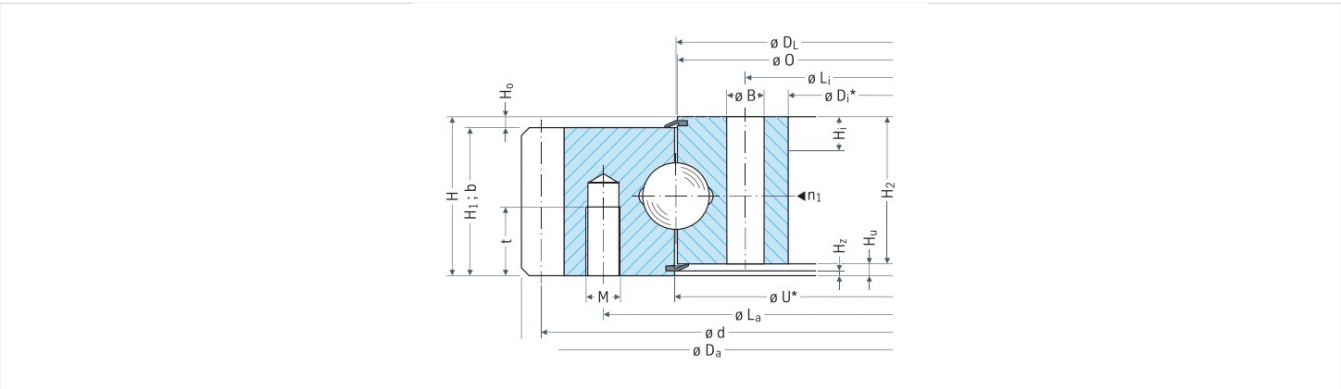
Certified for interchange with Rothe Erde 061.20.1094.500.01.1503. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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	REFERENCE
061.20.1094.500.01.1503	Rothe Erde 061.20.1094.500.01.1503
SERIES	STRUCTURE
06 Series	Sfere a quattro punti di contatto a una corona
OVERALL OD	OVERALL ID
1,198.4 mm	1,022 mm
OVERALL HEIGHT	GEAR
56 mm	Dentatura esterna

Published Technical Drawing



page-062-outline.png

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	061.20.1094.500.01.1503
Certified interchangeable with	Rothe Erde 061.20.1094.500.01.1503
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	DAE6MZDOCKQLWRLUMEEVTYVQSS
MATERIALS	
Configurable ring material options	42CrMo / 50Mn
Seal material	NBR - Nitrile rubber
Configurable spacer material options	Engineering nylon / Brass
IDENTIFICATION	
Reference brand	Rothe Erde
Reference series	06 Series
Reference model	061.20.1094.500.01.1503
Bearing structure	Sfere a quattro punti di contatto a una corona
Gear arrangement	Dentatura esterna
DIMENSION	
Raceway diameter (DL)	1.094 mm
Overall outside diameter (Da)	1.198,4 mm
Overall inside diameter (Di)	1.022 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	56 mm
Catalog diameter O (O)	1.092,5 mm
Catalog diameter U (U)	1.095,5 mm
Ring height H1 (H1)	45,5 mm
Ring height H2 (H2)	45,5 mm
Lower ring offset Hu (Hu)	10,5 mm
Upper ring offset Ho (Ho)	10,5 mm
Assembly weight (Weight)	91 kg
Axial bearing play (Y_axial)	0,30 mm
Radial bearing play (Y_radial)	0,26 mm
MOUNTING	
Outer ring bolt circle (La)	1.135 mm
Inner ring bolt circle (Li)	1.048 mm
La/Li mounting-hole count (n_La_Li)	44/48
Common mounting-hole diameter (B)	13,5 mm
Metric bolt nominal size (M)	12 mm
Thread depth (t)	20 mm
GEAR	
Gear pitch diameter (d)	1.184 mm
Gear module (m)	8 mm

Complete Product Data

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GEAR (CONTINUED)	
Gear tooth count (z)	148
Tip-height modification product k m (k*m)	-0,8 mm
Minimum gear face width (bmin)	45,5 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	18,93 kN
Permitted circumferential force, maximum (X2)	37,86 kN
PERFORMANCE RATINGS	
Catalog Reference X1	18,93 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	37,86 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	44 holes - M 12
Inner ring mounting	48 holes - B 13,5
GEAR INTERFACE	
Pitch system	module
Module reference	8 mm
Number of teeth	148
SOURCE TRACEABILITY	
Source document code	ROTHERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	62

Complete Product Data

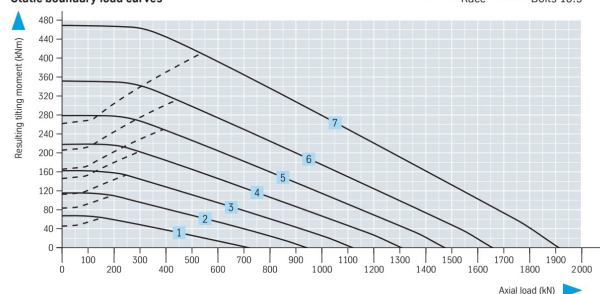
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Printed page	118-119
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-062-load-curves.png SHA-256: 8c87a771525798b661ea2401e191b7cee117163d23c146e3ad13b613a461e391
Outline Drawing	page-062-outline.png SHA-256: 85790c01496712c074be580055919e51eed200c2fab86f23511ae238e6c35410

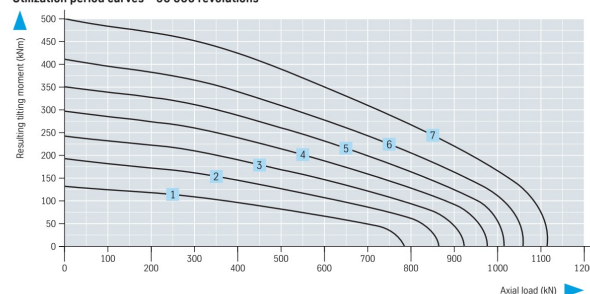
Published Load / Performance Chart

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.

Static boundary load curves



Utilization period curves – 30 000 revolutions



page-062-load-curves.png | SHA-256: 8c87a771525798b661ea2401e191b7cee117163d23c146e3ad13b613a461e391

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**DAE6MZDOCKQLWRLUMEEVTYVQSS****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 62 | Printed page 118-119****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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/rothe-erde/061-20-1094-500-01-1503/>

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