

Factory-Verified Replacement

MERYDOM 061.20.0944.500.01.1503

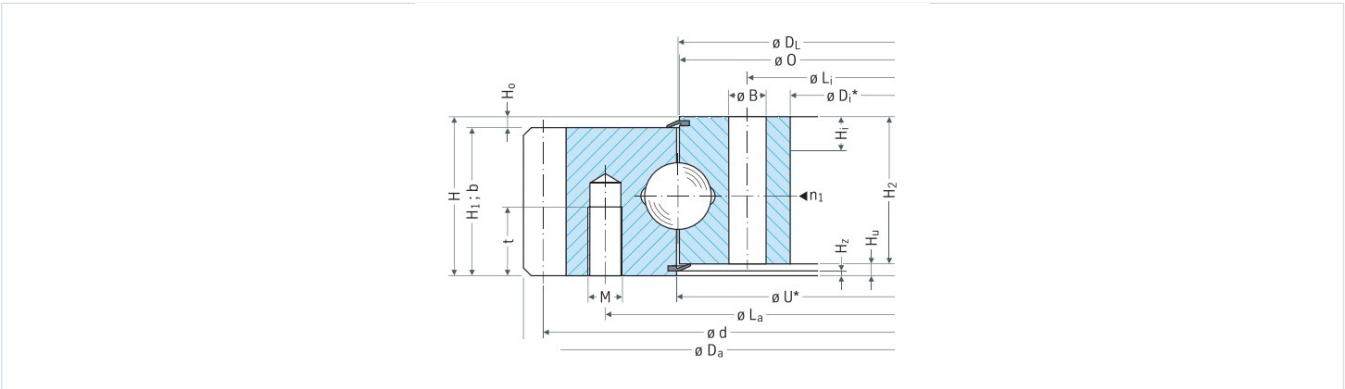
Certified for interchange with Rothe Erde 061.20.0944.500.01.1503. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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
061.20.0944.500.01.1503	Rothe Erde 061.20.0944.500.01.1503
SERIES	STRUCTURE
06 Series	Single-row four-point contact ball
OVERALL OD	OVERALL ID
1,046.4 mm	872 mm
OVERALL HEIGHT	GEAR
56 mm	External gear

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	061.20.0944.500.01.1503
Certified interchangeable with	Rothe Erde 061.20.0944.500.01.1503
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	APV42GL5U43WBNZZL4SKO3IOC2
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	061.20.0944.500.01.1503
Bearing structure	Single-row four-point contact ball
Gear arrangement	External gear
DIMENSION	
Raceway diameter (DL)	944 mm
Overall outside diameter (Da)	1,046.4 mm
Overall inside diameter (Di)	872 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	56 mm
Catalog diameter O (O)	942.5 mm
Catalog diameter U (U)	945.5 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)	77 kg
Axial bearing play (Y_axial)	0,30 mm
Radial bearing play (Y_radial)	0,26 mm
MOUNTING	
Outer ring bolt circle (La)	985 mm
Inner ring bolt circle (Li)	898 mm
La/Li mounting-hole count (n_La_Li)	40/44
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)	1,032 mm
Gear module (m)	8 mm

Complete Product Data

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GEAR (CONTINUED)	
Gear tooth count (z)	129
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	40 holes - M 12
Inner ring mounting	44 holes - B 13,5
GEAR INTERFACE	
Pitch system	module
Module reference	8 mm
Number of teeth	129
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	62

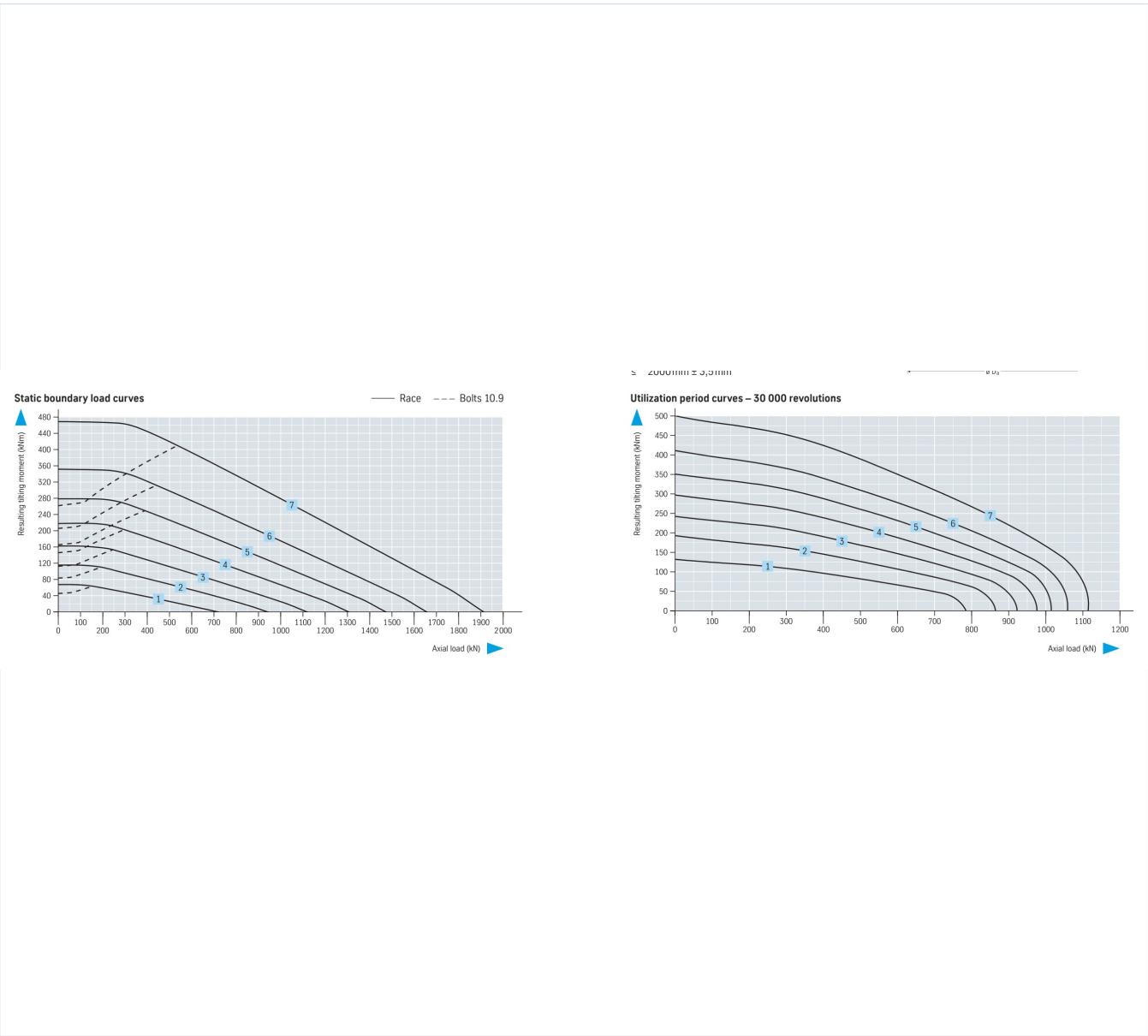
Complete Product Data

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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.



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 APV42GL5U43WBNZZL4SKO3IOC2	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/products/slewing-bearing-replacements/rothe-erde/061-20-0944-500-01-1503/>

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