

Factory-Verified Replacement

MERYDOM 061.20.0560.101.21.1503

Certified for interchange with Rothe Erde 061.20.0560.101.21.1503. 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

061.20.0560.101.21.1503

REFERENCE

Rothe Erde 061.20.0560.101.21.1503

SERIES

06 Series

STRUCTURE

Single-row four-point contact ball

OVERALL OD

670.8 mm

OVERALL ID

479 mm

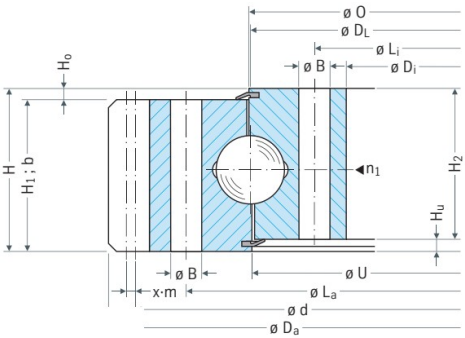
OVERALL HEIGHT

55 mm

GEAR

External gear

Published Technical Drawing



page-074-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	061.20.0560.101.21.1503
Certified interchangeable with	Rothe Erde 061.20.0560.101.21.1503
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	37GJT3NPG2VOFPHMHULWCSPRCP
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	061.20.0560.101.21.1503
Bearing structure	Single-row four-point contact ball
Gear arrangement	External gear
DIMENSION	
Raceway diameter (DL)	560 mm
Overall outside diameter (Da)	670.8 mm
Overall inside diameter (Di)	479 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	55 mm
Catalog diameter O (O)	561 mm
Catalog diameter U (U)	559 mm
Ring height H1 (H1)	46 mm
Ring height H2 (H2)	46 mm
Lower ring offset Hu (Hu)	9 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	53 kg
MOUNTING	
Outer ring bolt circle (La)	610 mm
Inner ring bolt circle (Li)	510 mm
Common mounting-hole count (n)	20
Common mounting-hole diameter (B)	15.5 mm
Metric bolt nominal size (M)	14 mm
GEAR	
Gear pitch diameter (d)	654 mm
Gear module (m)	6 mm
Gear tooth count (z)	109
Profile shift product x m (x*m)	3 mm
Tip-height modification product k m (k*m)	-0.6 mm

Complete Product Data

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GEAR (CONTINUED)	
Minimum gear face width (bmin)	45 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	26.09 kN
Permitted circumferential force, maximum (X2)	52.17 kN
MISCELLANEOUS	
Grease nipple count (n1)	4
PERFORMANCE RATINGS	
Catalog Reference X1	26.09 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	52.17 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	20 holes - M 14
Inner ring mounting	20 holes - B 15,5
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	109
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	74
Printed page	142-143

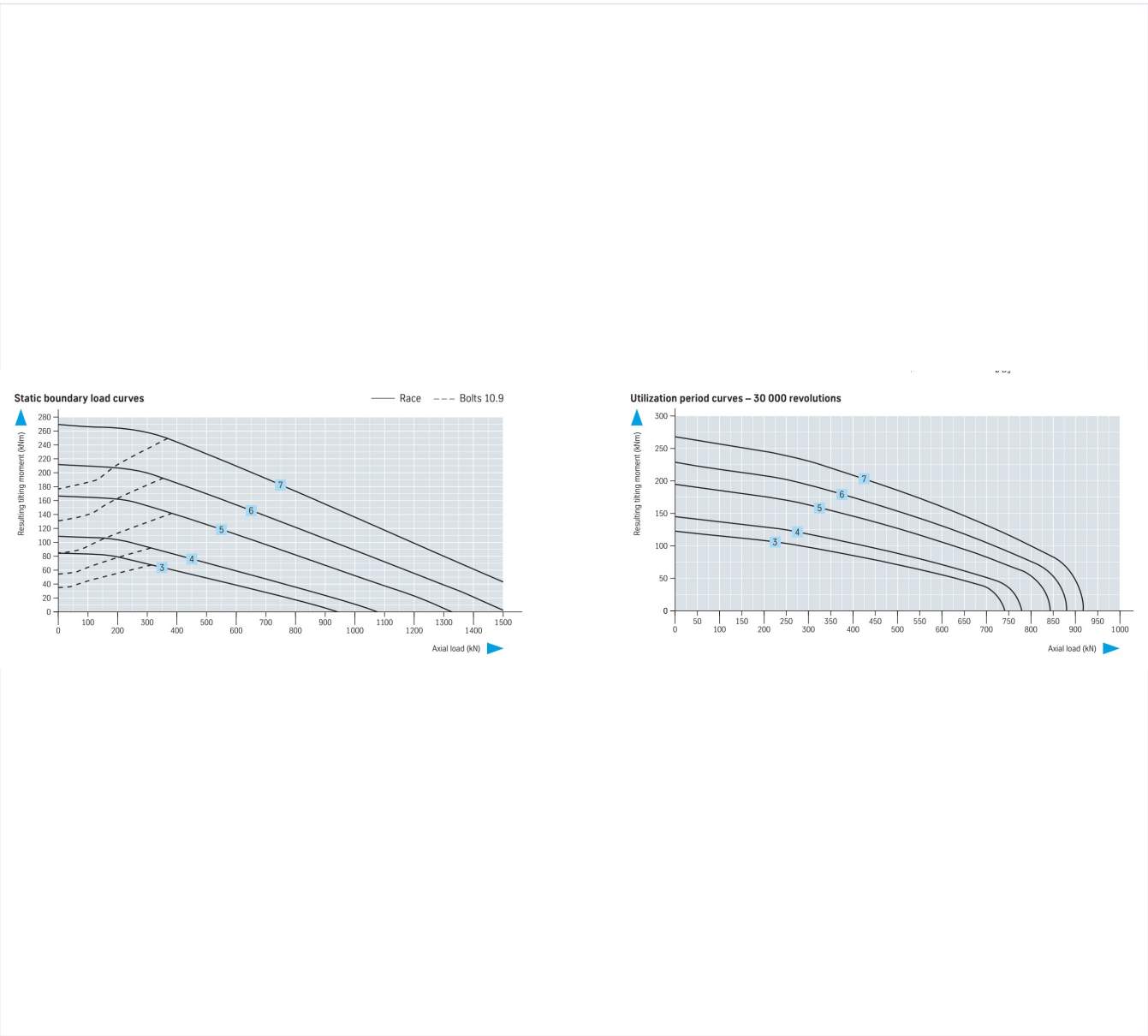
Complete Product Data

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)	
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-074-load-curves.png SHA-256: 194de070d354539843844b18c12ac6e561fbf60097cd08c31ae76361dfdb759a
Outline Drawing	page-074-outline.png SHA-256: fbb761db55c943918e087e76a73723faa738c94b1e5085319051d15ed415de72

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.



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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 37GJT3NPG2VOFPHMHULWCSPRCP	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 74 Printed page 142-143
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/061-20-0560-101-21-1503/>

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