

Factory-Verified Replacement

MERYDOM 061.50.2645.001.49.1504

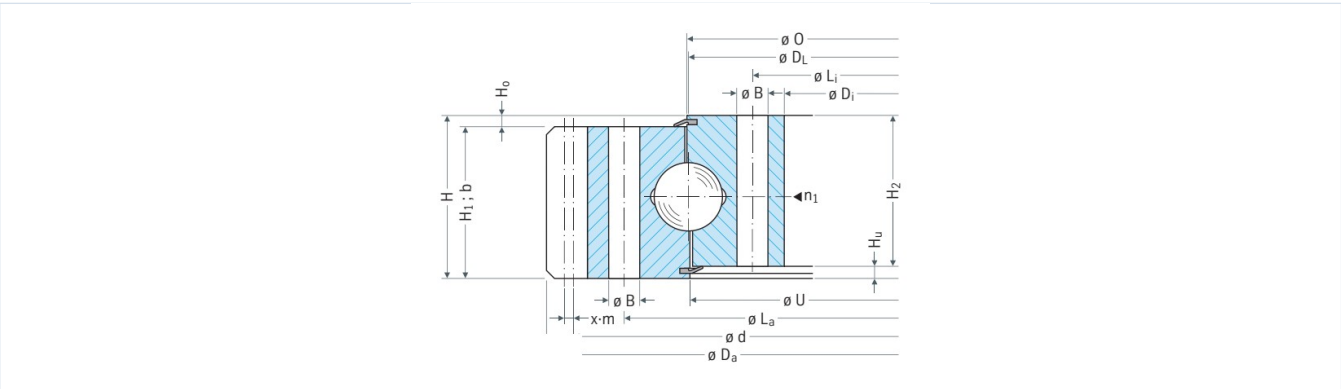
Certified for interchange with Rothe Erde 061.50.2645.001.49.1504. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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
061.50.2645.001.49.1504	Rothe Erde 061.50.2645.001.49.1504
SERIES	STRUCTURE
06 Series	Tek s ral d rt nokta temasl bilyal
OVERALL OD	OVERALL ID
2,892.8 mm	2,474 mm
OVERALL HEIGHT	GEAR
109 mm	D tan di li

Published Technical Drawing



page-078-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	061.50.2645.001.49.1504
Certified interchangeable with	Rothe Erde 061.50.2645.001.49.1504
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	WZVS3S3BMXBRNOCZQZRNTKS3H4
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	061.50.2645.001.49.1504
Bearing structure	Tek s ral d rt nokta temasl bilyal
Gear arrangement	D tan di li
DIMENSION	
Raceway diameter (DL)	2 645 mm
Overall outside diameter (Da)	2 892,8 mm
Overall inside diameter (Di)	2 474 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	109 mm
Catalog diameter O (O)	2 647 mm
Catalog diameter U (U)	2 643 mm
Ring height H1 (H1)	100 mm
Ring height H2 (H2)	99 mm
Lower ring offset Hu (Hu)	10 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	1 142 kg
MOUNTING	
Outer ring bolt circle (La)	2 750 mm
Inner ring bolt circle (Li)	2 540 mm
Common mounting-hole count (n)	60
Common mounting-hole diameter (B)	33 mm
Metric bolt nominal size (M)	30 mm
GEAR	
Gear pitch diameter (d)	2 848 mm
Gear module (m)	16 mm
Gear tooth count (z)	178
Profile shift product x m (x*m)	8 mm
Tip-height modification product k m (k*m)	-1,6 mm

Complete Product Data

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GEAR (CONTINUED)	
Minimum gear face width (bmin)	99 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	145,39 kN
Permitted circumferential force, maximum (X2)	290,78 kN
MISCELLANEOUS	
Grease nipple count (n1)	12
PERFORMANCE RATINGS	
Catalog Reference X1	145,39 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	290,78 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	60 holes - M 30
Inner ring mounting	60 holes - B 33
GEAR INTERFACE	
Pitch system	module
Module reference	16 mm
Number of teeth	178
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	78
Printed page	150-151

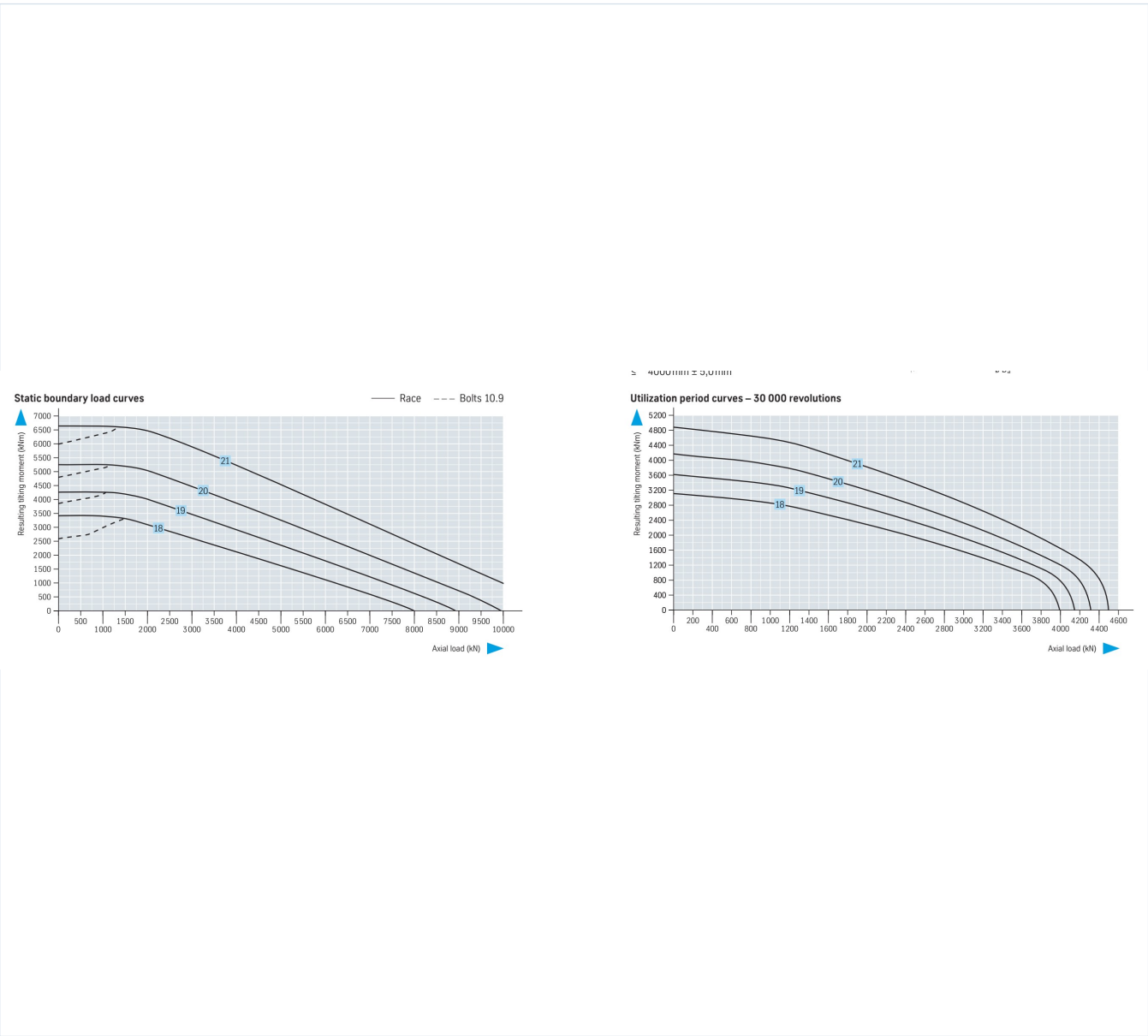
Complete Product Data

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SOURCE TRACEABILITY (CONTINUED)	
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-078-load-curves.png SHA-256: 9a6f9d8ae1e72bc9de682e5b71a46417dd815db6473bf000bb66cfa2dc1b67e1
Outline Drawing	page-078-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.



page-078-load-curves.png | SHA-256: 9a6f9d8ae1e72bc9de682e5b71a46417dd815db6473bf000bb66cfa2dc1b67e1

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 WZVS3S3BMXBRNOCZQZRNTKS3H4	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 78 Printed page 150-151
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/tr/urunler/muadil-doner-tabla-rulmanlari/rothe-erde/061-50-2645-001-49-1504/>

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