

Factory-Verified Replacement

MERYDOM 061.30.1180.001.21.1504

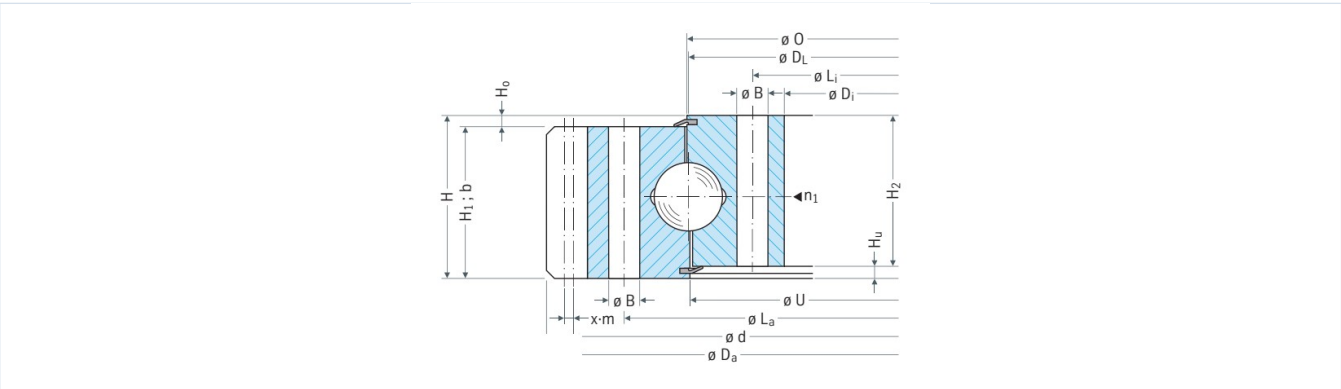
Certified for interchange with Rothe Erde 061.30.1180.001.21.1504. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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
061.30.1180.001.21.1504	Rothe Erde 061.30.1180.001.21.1504
SERIES	STRUCTURE
06 Series	Single-row four-point contact ball
OVERALL OD	OVERALL ID
1,338.6 mm	1,068 mm
OVERALL HEIGHT	GEAR
79 mm	External gear

Published Technical Drawing



page-076-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	061.30.1180.001.21.1504
Certified interchangeable with	Rothe Erde 061.30.1180.001.21.1504
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ECJBDGJE4U64CXMPR7R45UKREN
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	061.30.1180.001.21.1504
Bearing structure	Single-row four-point contact ball
Gear arrangement	External gear
DIMENSION	
Raceway diameter (DL)	1,180 mm
Overall outside diameter (Da)	1,338.6 mm
Overall inside diameter (Di)	1,068 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	79 mm
Catalog diameter O (O)	1,181 mm
Catalog diameter U (U)	1,178 mm
Ring height H1 (H1)	70 mm
Ring height H2 (H2)	63 mm
Lower ring offset Hu (Hu)	16 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	227 kg
MOUNTING	
Outer ring bolt circle (La)	1,248 mm
Inner ring bolt circle (Li)	1,112 mm
Common mounting-hole count (n)	36
Common mounting-hole diameter (B)	22 mm
Metric bolt nominal size (M)	20 mm
GEAR	
Gear pitch diameter (d)	1,310 mm
Gear module (m)	10 mm
Gear tooth count (z)	131
Profile shift product x m (x*m)	5 mm
Tip-height modification product k m (k*m)	-1 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.

GEAR (CONTINUED)	
Minimum gear face width (bmin)	69 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	63.33 kN
Permitted circumferential force, maximum (X2)	126.67 kN
MISCELLANEOUS	
Grease nipple count (n1)	6
PERFORMANCE RATINGS	
Catalog Reference X1	63.33 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	126.67 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - M 20
Inner ring mounting	36 holes - B 22
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	131
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	76
Printed page	146-147

Complete Product Data

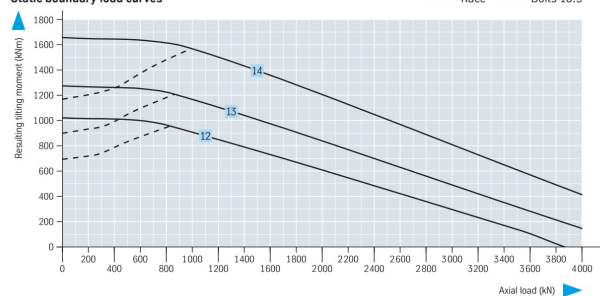
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-076-load-curves.png SHA-256: 0a566c51d5cd0ea8e34cccf1c297d7cb0f7a9dfbd8cdef076ad423802803a56e
Outline Drawing	page-076-outline.png SHA-256: b0f781850d2bd40b880c1f0862ab92c39ef72ba9c414eec87c10b6cb876b4512

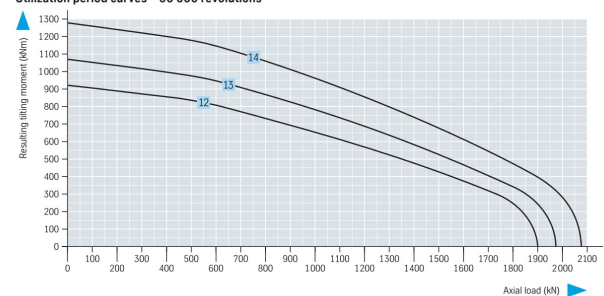
Published Load / Performance Chart

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-076-load-curves.png | SHA-256: 0a566c51d5cd0ea8e34cccf1c297d7cb0f7a9dfbd8cdef076ad423802803a56e

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 ECJBDGJE4U64CXMPR7R45UKREN	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 76 Printed page 146-147
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/061-30-1180-001-21-1504/>

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