

Factory-Verified Replacement

MERYDOM 061.20.1094.575.01.1403

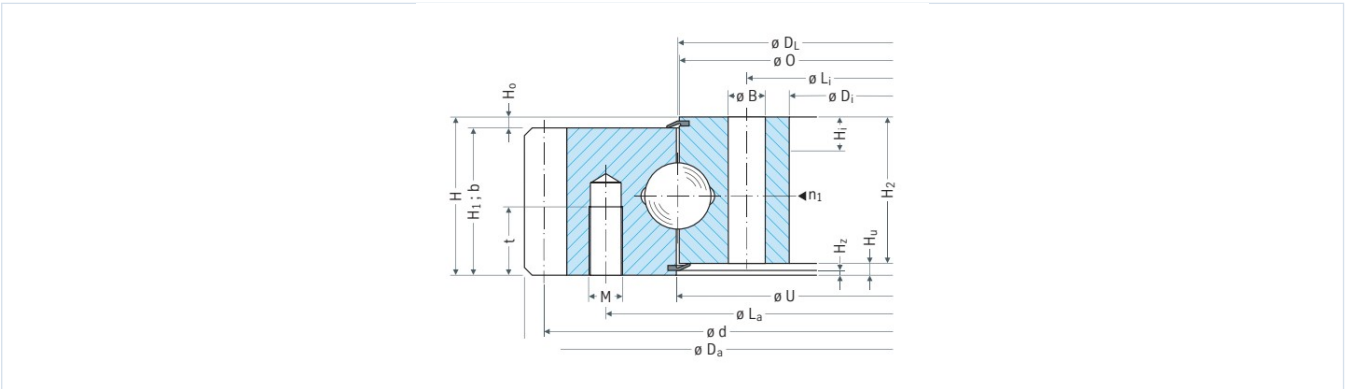
Certified for interchange with Rothe Erde 061.20.1094.575.01.1403. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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
061.20.1094.575.01.1403	Rothe Erde 061.20.1094.575.01.1403
SERIES	STRUCTURE
06 Series	Single-row four-point contact ball
OVERALL OD	OVERALL ID
1,198.4 mm	1,023.5 mm
OVERALL HEIGHT	GEAR
56 mm	External gear

Published Technical Drawing



page-065-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	061.20.1094.575.01.1403
Certified interchangeable with	Rothe Erde 061.20.1094.575.01.1403
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	ES7E46BAYRGOOYMIPTVLC23JZ5
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	061.20.1094.575.01.1403
Bearing structure	Single-row four-point contact ball
Gear arrangement	External gear
DIMENSION	
Raceway diameter (DL)	1,094 mm
Overall outside diameter (Da)	1,198.4 mm
Overall inside diameter (Di)	1023,5 + 0,17 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)	1097 + 0,17 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 to mm
Radial bearing play (Y_radial)	0.06 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	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	65

Complete Product Data

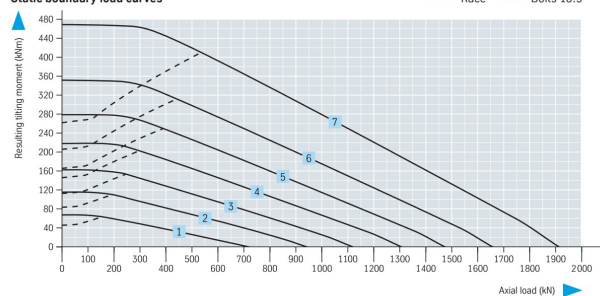
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Printed page	124-125
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-065-load-curves.png SHA-256: bc330da88ef00ae02f734c175d745f055ea9f30b4e259b231d6967f4dbf0f203
Outline Drawing	page-065-outline.png SHA-256: 58366233702ec992f6762a375c2c9cd9e2d673822957a1d8843f91e1be52649f

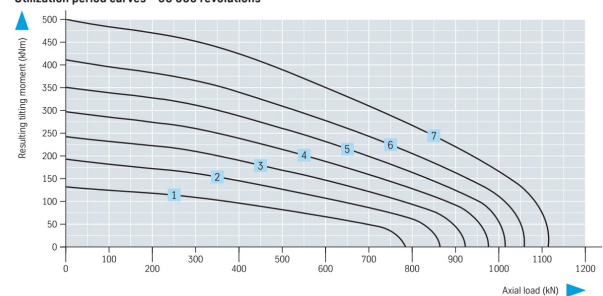
Published Load / Performance Chart

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-065-load-curves.png | SHA-256: bc330da88ef00ae02f734c175d745f055ea9f30b4e259b231d6967f4dbf0f203

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 ES7E46BAYRGOOYMIPTVLC23JZ5	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 65 Printed page 124-125
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/061-20-1094-575-01-1403/>

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