

Factory-Verified Replacement

MERYDOM 061.25.1255.575.11.1403

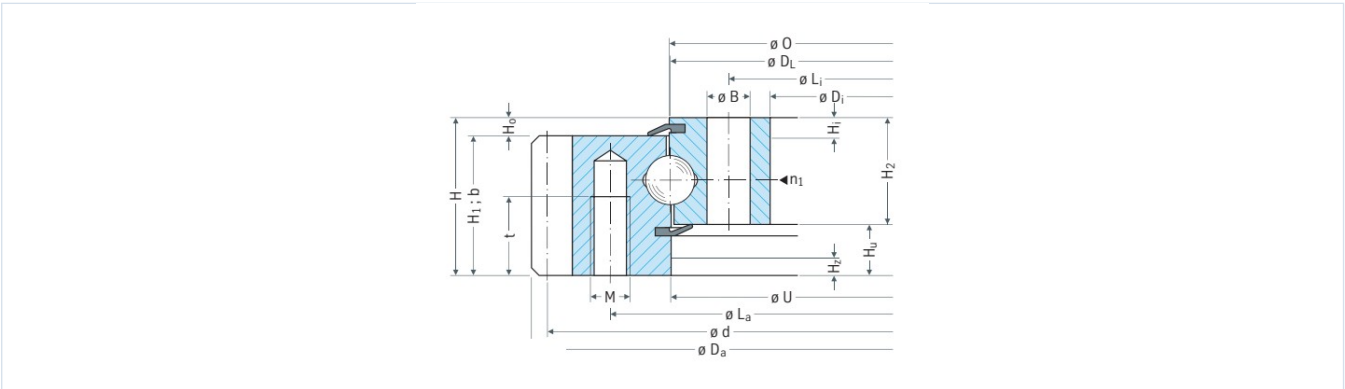
Certified for interchange with Rothe Erde 061.25.1255.575.11.1403. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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
061.25.1255.575.11.1403	Rothe Erde 061.25.1255.575.11.1403
SERIES	STRUCTURE
06 Series	Single-row four-point contact ball
OVERALL OD	OVERALL ID
1,398 mm	1,157 mm
OVERALL HEIGHT	GEAR
80 mm	External gear

Published Technical Drawing



page-071-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	061.25.1255.575.11.1403
Certified interchangeable with	Rothe Erde 061.25.1255.575.11.1403
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	OQTGC7LP2Z5PDEA2FOWNQ2PR5B
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	061.25.1255.575.11.1403
Bearing structure	Single-row four-point contact ball
Gear arrangement	External gear
DIMENSION	
Raceway diameter (DL)	1,255 mm
Overall outside diameter (Da)	1,398 mm
Overall inside diameter (Di)	1157 + 0,17 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	80 mm
Catalog diameter O (O)	1,256 mm
Catalog diameter U (U)	1255 + 0,20 mm
Ring height H1 (H1)	71 mm
Ring height H2 (H2)	54 mm
Lower ring offset Hu (Hu)	26 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	204 kg
Combined axial/radial bearing play range (Y_axial_radial)	0 to 0,07 mm
MOUNTING	
Outer ring bolt circle (La)	1,316 mm
Inner ring bolt circle (Li)	1,195 mm
Common mounting-hole count (n)	42
Common mounting-hole diameter (B)	22 mm
Metric bolt nominal size (M)	20 mm
Thread depth (t)	40 mm
GEAR	
Gear pitch diameter (d)	1,380 mm
Gear module (m)	10 mm
Gear tooth count (z)	138

Complete Product Data

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GEAR (CONTINUED)	
Tip-height modification product k m (k*m)	-1 mm
Minimum gear face width (bmin)	70 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	36.4 kN
Permitted circumferential force, maximum (X2)	72.8 kN
MISCELLANEOUS	
Grease nipple count (n1)	6
PERFORMANCE RATINGS	
Catalog Reference X1	36.4 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	72.8 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	42 holes - M 20
Inner ring mounting	42 holes - B 22
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	138
SOURCE TRACEABILITY	
Source document code	ROTHERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	71

Complete Product Data

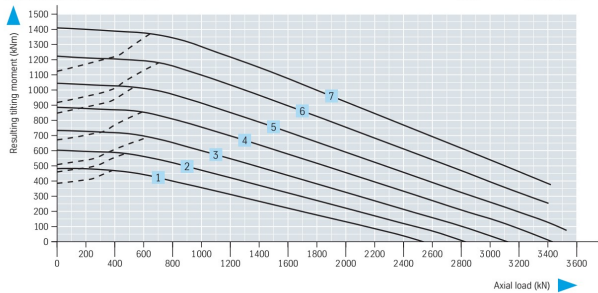
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Printed page	136-137
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-071-load-curves.png SHA-256: 47402b5192fe15a8d78af7699319dae541591b37bdcaabdcabb12142e cdadf6
Outline Drawing	page-071-outline.png SHA-256: 4b11787f02c9ff4d331db9e290d963f4b4268ac8e1c9b518b9fd80fcb3 0303c5

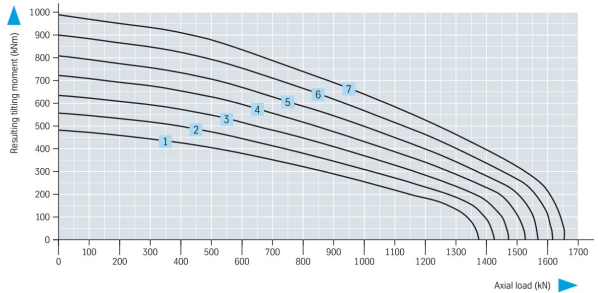
Published Load / Performance Chart

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-071-load-curves.png | SHA-256: 47402b5192fe15a8d78af7699319dae541591b37bdcaabddcdabb12142ecdadf6

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**OQTGC7LP2Z5PDEA2FOWNQ2PR5B****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 71 | Printed page 136-137****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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170Product page: <https://rotnex.com/products/slewing-bearing-replacements/rothe-erde/061-25-1255-575-11-1403/>

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