

MERYDOM 061.25.1250.101.21.1504

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

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	061.25.1250.101.21.1504
Certified interchangeable with	Rothe Erde 061.25.1250.101.21.1504
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5CTEOLMLKTD35TWF5V6VULKR43
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	061.25.1250.101.21.1504
Bearing structure	Single-row four-point contact ball
Gear arrangement	External gear
DIMENSION	
Raceway diameter (DL)	1,250 mm
Overall outside diameter (Da)	1,408.4 mm
Overall inside diameter (Di)	1,143 mm

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DIMENSION (CONTINUED)	
Overall height (H)	79 mm
Catalog diameter O (O)	1,251 mm
Catalog diameter U (U)	1,249 mm
Ring height H1 (H1)	70 mm
Ring height H2 (H2)	54 mm
Lower ring offset Hu (Hu)	25 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	221 kg
MOUNTING	
Outer ring bolt circle (La)	1,313 mm
Inner ring bolt circle (Li)	1,187 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)	1,380 mm
Gear module (m)	10 mm
Gear tooth count (z)	138
Profile shift product x m (x*m)	5 mm
Tip-height modification product k m (k*m)	-1 mm

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GEAR (CONTINUED)	
Minimum gear face width (bmin)	69 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	66.67 kN
Permitted circumferential force, maximum (X2)	133.33 kN
MISCELLANEOUS	
Grease nipple count (n1)	6
PERFORMANCE RATINGS	
Catalog Reference X1	66.67 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	133.33 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - M 20
Inner ring mounting	36 holes - B 22,0
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	138
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	75
Printed page	144-145

Complete Product Data

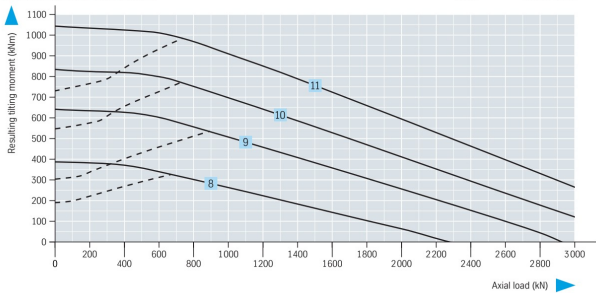
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-075-load-curves.png SHA-256: d14005686bb4c20771a0690f958bc35821cff30ef8f2885b792dd5642b bc7e21
Outline Drawing	page-075-outline.png SHA-256: b0f781850d2bd40b880c1f0862ab92c39ef72ba9c414eec87c10b6cb87 6b4512

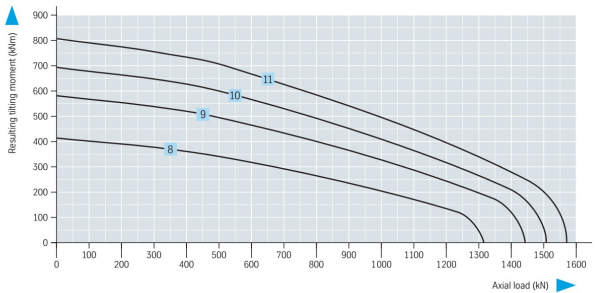
Published Load / Performance Chart

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-075-load-curves.png | SHA-256: d14005686bb4c20771a0690f958bc35821cff30ef8f2885b792dd5642bbc7e21

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 5CTEOLMLKTD35TWF5V6VULKR43	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 75 Printed page 144-145
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/061-25-1250-101-21-1504/>

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