

Factory-Verified Replacement

MERYDOM 061.20.0710.100.11.1503

Certified for interchange with Rothe Erde 061.20.0710.100.11.1503. 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

061.20.0710.100.11.1503

SERIES

06 Series

OVERALL OD

820.8 mm

OVERALL HEIGHT

55 mm

REFERENCE

Rothe Erde 061.20.0710.100.11.1503

STRUCTURE

Sfere a quattro punti di contatto a una corona

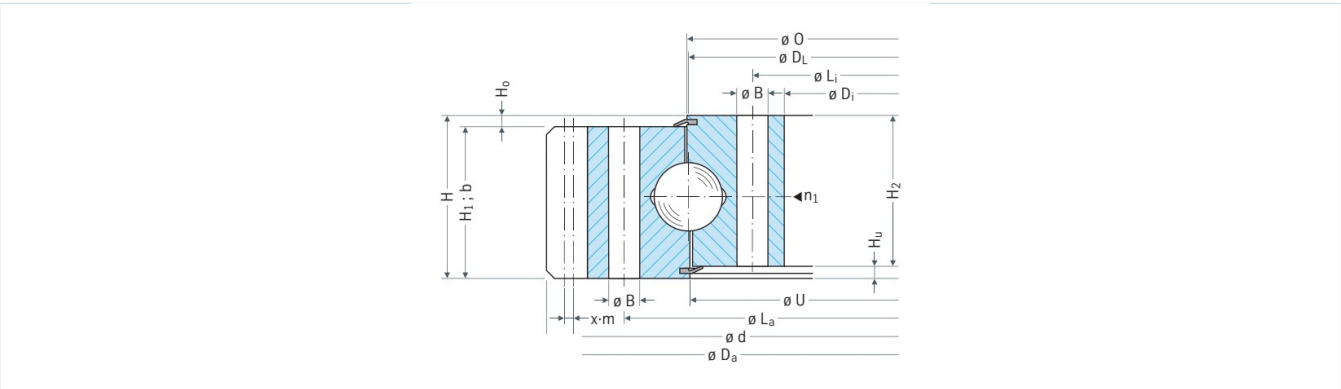
OVERALL ID

623 mm

GEAR

Dentatura esterna

Published Technical Drawing



page-074-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	061.20.0710.100.11.1503
Certified interchangeable with	Rothe Erde 061.20.0710.100.11.1503
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	FC3WS64AQAQVUBGG2X2EDPF72K
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	061.20.0710.100.11.1503
Bearing structure	Sfere a quattro punti di contatto a una corona
Gear arrangement	Dentatura esterna
DIMENSION	
Raceway diameter (DL)	710 mm
Overall outside diameter (Da)	820,8 mm
Overall inside diameter (Di)	623 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	55 mm
Catalog diameter O (O)	711 mm
Catalog diameter U (U)	709 mm
Ring height H1 (H1)	46 mm
Ring height H2 (H2)	46 mm
Lower ring offset Hu (Hu)	9 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	67 kg
MOUNTING	
Outer ring bolt circle (La)	762 mm
Inner ring bolt circle (Li)	658 mm
Common mounting-hole count (n)	24
Common mounting-hole diameter (B)	17,5 mm
Metric bolt nominal size (M)	16 mm
GEAR	
Gear pitch diameter (d)	804 mm
Gear module (m)	6 mm
Gear tooth count (z)	134
Profile shift product x m (x*m)	3 mm
Tip-height modification product k m (k*m)	-0,6 mm

Complete Product Data

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GEAR (CONTINUED)	
Minimum gear face width (bmin)	45 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	16,96 kN
Permitted circumferential force, maximum (X2)	33,91 kN
MISCELLANEOUS	
Grease nipple count (n1)	4
PERFORMANCE RATINGS	
Catalog Reference X1	16,96 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	33,91 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	24 holes - M 16
Inner ring mounting	24 holes - B 17,5
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	134
SOURCE TRACEABILITY	
Source document code	ROTHERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	74
Printed page	142-143

Complete Product Data

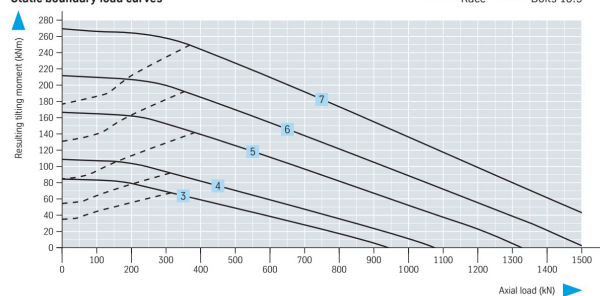
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-074-load-curves.png SHA-256: 194de070d354539843844b18c12ac6e561fbf60097cd08c31ae76361dfdb759a
Outline Drawing	page-074-outline.png SHA-256: fbb761db55c943918e087e76a73723faa738c94b1e5085319051d15ed415de72

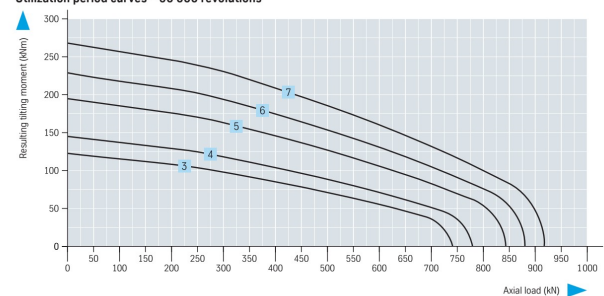
Published Load / Performance Chart

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.

Static boundary load curves



Utilization period curves – 30 000 revolutions



page-074-load-curves.png | SHA-256: 194de070d354539843844b18c12ac6e561fbf60097cd08c31ae76361dfdb759a

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**FC3WS64AQAQVUBGG2X2EDPF72K****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 74 | Printed page 142-143****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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/rothe-erde/061-20-0710-100-11-1503/>

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