

Factory-Verified Replacement

MERYDOM 062.20.0450.000.11.1503

Certified for interchange with Rothe Erde 062.20.0450.000.11.1503. 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

062.20.0450.000.11.1503

SERIES

06 Series

OVERALL OD

531 mm

OVERALL HEIGHT

55 mm

REFERENCE

Rothe Erde 062.20.0450.000.11.1503

STRUCTURE

Sfere a quattro punti di contatto a una corona

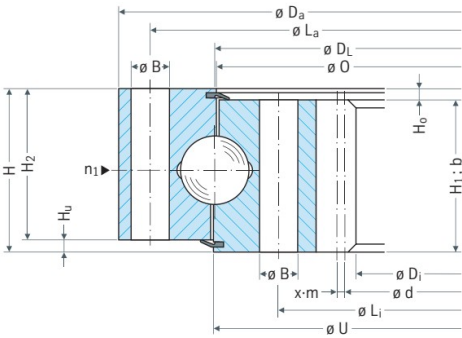
OVERALL ID

345 mm

GEAR

Dentatura interna

Published Technical Drawing



page-080-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	062.20.0450.000.11.1503
Certified interchangeable with	Rothe Erde 062.20.0450.000.11.1503
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	KI7P7K5IUIBP4IIR33BTTXTFAD
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	062.20.0450.000.11.1503
Bearing structure	Sfere a quattro punti di contatto a una corona
Gear arrangement	Dentatura interna
DIMENSION	
Raceway diameter (DL)	450 mm
Overall outside diameter (Da)	531 mm
Overall inside diameter (Di)	345 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	55 mm
Catalog diameter O (O)	449 mm
Catalog diameter U (U)	451 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)	38 kg
MOUNTING	
Outer ring bolt circle (La)	500 mm
Inner ring bolt circle (Li)	400 mm
Common mounting-hole count (n)	16
Common mounting-hole diameter (B)	15,5 mm
Metric bolt nominal size (M)	14 mm
GEAR	
Gear pitch diameter (d)	350 mm
Gear module (m)	5 mm
Gear tooth count (z)	70
Profile shift product x m (x*m)	-2,5 mm
Minimum gear face width (bmin)	45 mm

Complete Product Data

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PERFORMANCE	
Permitted circumferential force, normal (X1)	14,13 kN
Permitted circumferential force, maximum (X2)	28,25 kN
MISCELLANEOUS	
Grease nipple count (n1)	2
PERFORMANCE RATINGS	
Catalog Reference X1	14,13 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	28,25 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	16 holes - B 15,5
Inner ring mounting	16 holes - M 14
GEAR INTERFACE	
Pitch system	module
Module reference	5 mm
Number of teeth	70
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	80
Printed page	154-155
Source language	EN
Original unit system	Metric

Complete Product Data

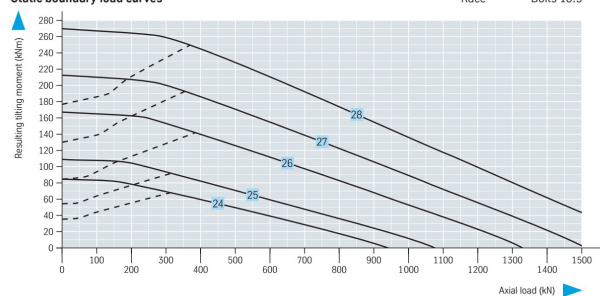
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-080-load-curves.png SHA-256: 711929beee8a428d72c8792fc769100c1d91aeb45bc72df2a4ce88b6f3270fba
Outline Drawing	page-080-outline.png SHA-256: 77680d2d39e251c34653a71ba28a8e4313963324f564029655b05e8f35643d6c

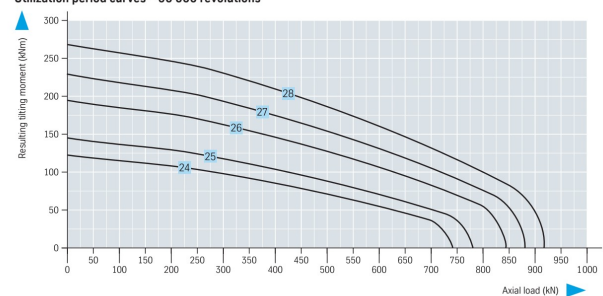
Published Load / Performance Chart

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-080-load-curves.png | SHA-256: 711929beee8a428d72c8792fc769100c1d91aeb45bc72df2a4ce88b6f3270fba

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**KI7P7K5IUIBP4IIR33BTXTFAD****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 80 | Printed page 154-155****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 17705201170

Product page:

<https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/rothe-erde/062-20-0450-000-11-1503/>

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