

Factory-Verified Replacement

MERYDOM 062.25.1455.500.11.1503

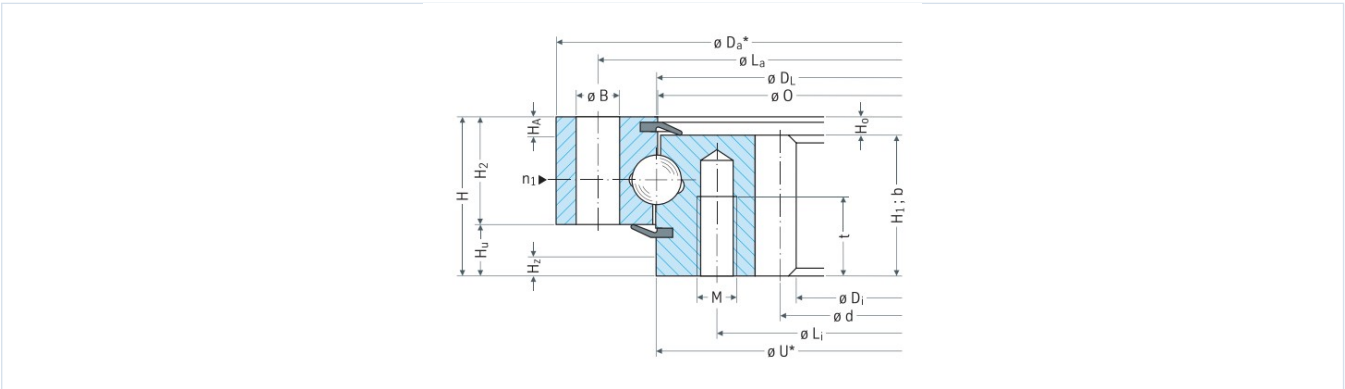
Certified for interchange with Rothe Erde 062.25.1455.500.11.1503. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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	REFERENCE
062.25.1455.500.11.1503	Rothe Erde 062.25.1455.500.11.1503
SERIES	STRUCTURE
06 Series	Sfere a quattro punti di contatto a una corona
OVERALL OD	OVERALL ID
1,555 mm	1,310 mm
OVERALL HEIGHT	GEAR
80 mm	Dentatura interna

Published Technical Drawing



page-069-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	062.25.1455.500.11.1503
Certified interchangeable with	Rothe Erde 062.25.1455.500.11.1503
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	7M45KM2Y6YOQS3LWETFHZR2V47
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	062.25.1455.500.11.1503
Bearing structure	Sfere a quattro punti di contatto a una corona
Gear arrangement	Dentatura interna
DIMENSION	
Raceway diameter (DL)	1.455 mm
Overall outside diameter (Da)	1.555 mm
Overall inside diameter (Di)	1.310 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	80 mm
Catalog diameter O (O)	1.454 mm
Catalog diameter U (U)	1.456 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
Centering spigot diameter Da* (Da_star)	1553 - 0,31 mm
Centering spigot diameter U* (U_star)	1455 - 0,31 mm
Assembly weight (Weight)	229 kg
Axial bearing play (Y_axial)	0,36 mm
Radial bearing play (Y_radial)	0,30 mm
MOUNTING	
Outer ring bolt circle (La)	1.515 mm
Inner ring bolt circle (Li)	1.394 mm
Common mounting-hole count (n)	48
Common mounting-hole diameter (B)	22 mm
Metric bolt nominal size (M)	20 mm
Thread depth (t)	40 mm
GEAR	

Complete Product Data

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GEAR (CONTINUED)	
Gear pitch diameter (d)	1.330 mm
Gear module (m)	10 mm
Gear tooth count (z)	133
Minimum gear face width (bmin)	70 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	38,55 kN
Permitted circumferential force, maximum (X2)	77,1 kN
MISCELLANEOUS	
Grease nipple count (n1)	6
PERFORMANCE RATINGS	
Catalog Reference X1	38,55 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	77,1 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	48 holes - B 22
Inner ring mounting	48 holes - M 20
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	133
SOURCE TRACEABILITY	
Source document code	ROTHERDE_CATALOG_2023

Complete Product Data

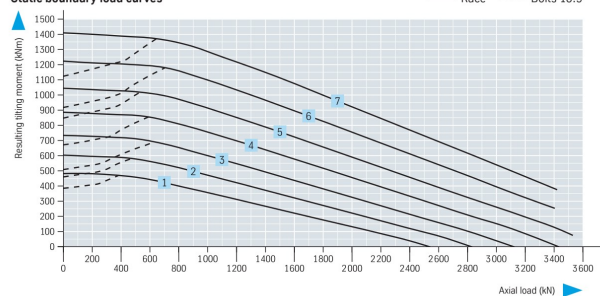
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Source file	Rothe Erde.pdf
PDF page	69
Printed page	132-133
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-069-load-curves.png SHA-256: 3dc6f4d074021f5be5f0f9abaf6444b6578f10e808aea4273fe8b481e8441d9e
Outline Drawing	page-069-outline.png SHA-256: 90389bd083c4bf8e51d10e01fa2ee5c9deffb6cfc1a1978527e4a327d1344ba1

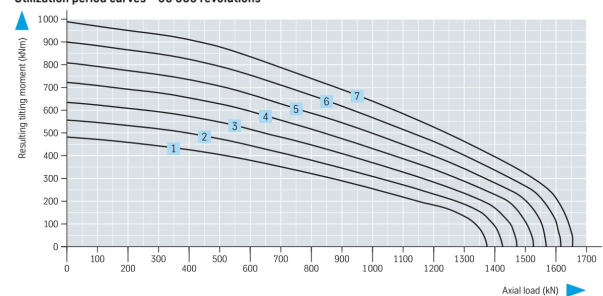
Published Load / Performance Chart

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-069-load-curves.png | SHA-256: 3dc6f4d074021f5be5f0f9abaf6444b6578f10e808aea4273fe8b481e8441d9e

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**7M45KM2Y6YQSQ3LWETFHZR2V47****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 69 | Printed page 132-133****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/062-25-1455-500-11-1503/>

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