

Factory-Verified Replacement

MERYDOM 062.50.2800.001.49.1504

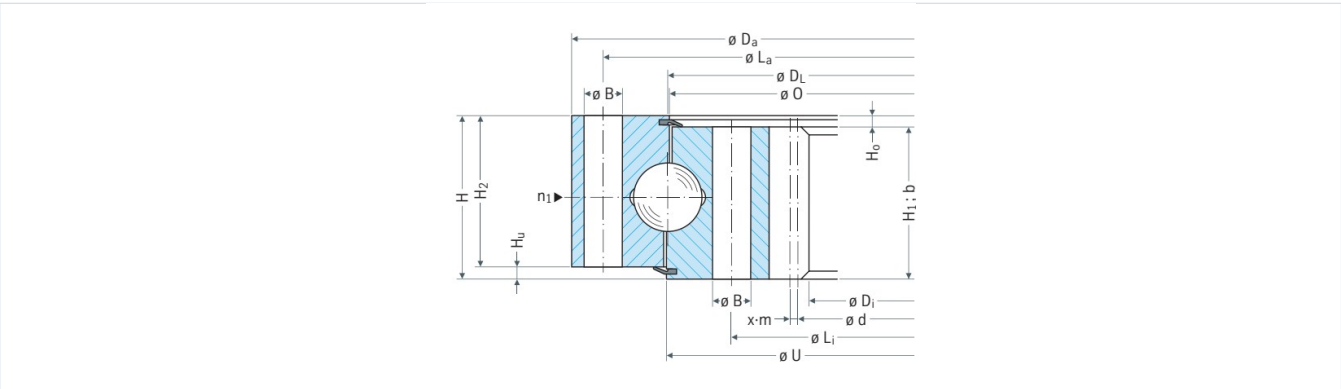
Certified for interchange with Rothe Erde 062.50.2800.001.49.1504. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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
062.50.2800.001.49.1504	Rothe Erde 062.50.2800.001.49.1504
SERIES	STRUCTURE
06 Series	Esferas de contato de quatro pontos de uma carreira
OVERALL OD	OVERALL ID
2,971 mm	2,544 mm
OVERALL HEIGHT	GEAR
109 mm	Engrenagem interna

Published Technical Drawing



page-084-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	062.50.2800.001.49.1504
Certified interchangeable with	Rothe Erde 062.50.2800.001.49.1504
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	THL2W3SSTCKVD3ZDSPHKJYEXIV
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	062.50.2800.001.49.1504
Bearing structure	Esferas de contato de quatro pontos de uma carreira
Gear arrangement	Engrenagem interna
DIMENSION	
Raceway diameter (DL)	2.800 mm
Overall outside diameter (Da)	2.971 mm
Overall inside diameter (Di)	2.544 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	109 mm
Catalog diameter O (O)	2.798 mm
Catalog diameter U (U)	2.802 mm
Ring height H1 (H1)	100 mm
Ring height H2 (H2)	99 mm
Lower ring offset Hu (Hu)	10 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	1.205 kg
MOUNTING	
Outer ring bolt circle (La)	2.905 mm
Inner ring bolt circle (Li)	2.695 mm
Common mounting-hole count (n)	60
Common mounting-hole diameter (B)	33 mm
Metric bolt nominal size (M)	30 mm
GEAR	
Gear pitch diameter (d)	2.560 mm
Gear module (m)	16 mm
Gear tooth count (z)	160
Profile shift product x m (x*m)	-8 mm
Minimum gear face width (bmin)	99 mm

Complete Product Data

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PERFORMANCE	
Permitted circumferential force, normal (X1)	145,33 kN
Permitted circumferential force, maximum (X2)	290,66 kN
MISCELLANEOUS	
Grease nipple count (n1)	12
PERFORMANCE RATINGS	
Catalog Reference X1	145,33 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	290,66 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	60 holes - B 33
Inner ring mounting	60 holes - M 30
GEAR INTERFACE	
Pitch system	module
Module reference	16 mm
Number of teeth	160
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	84
Printed page	162-163
Source language	EN
Original unit system	Metric

Complete Product Data

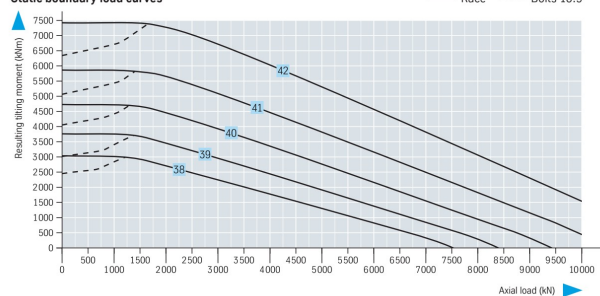
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PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-084-load-curves.png SHA-256: 0fe510a9f16eb97d275bb0e0ec384fe8c32c2433be2fba815579f81bd5197b25
Outline Drawing	page-084-outline.png SHA-256: 0d0da1b62018e319b40e59fdf9e2dda66ac9e3733eaa7f1ccd8121e14db69631

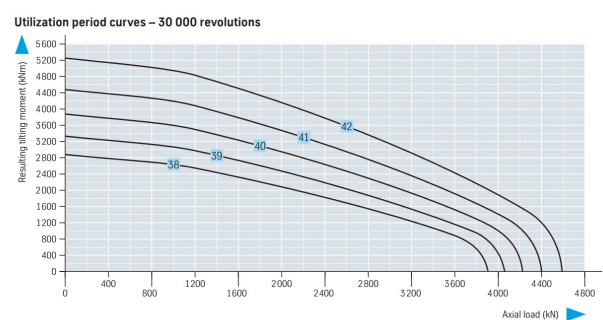
Published Load / Performance Chart

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-084-load-curves.png | SHA-256: 0fe510a9f16eb97d275bb0e0ec384fe8c32c2433be2fba815579f81bd5197b25

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**THL2W3SSTCKVD3ZDSPHKJYEXIV****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 84 | Printed page 162-163****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/pt/produtos/rolamentos-de-giro-de-substituicao/rothe-erde/062-50-2800-001-49-1504/>

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