

Factory-Verified Replacement

MERYDOM 192.40.4500.990.41.1502

Certified for interchange with Rothe Erde 192.40.4500.990.41.1502. 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
192.40.4500.990.41.1502

REFERENCE
Rothe Erde 192.40.4500.990.41.1502

SERIES
19 Series

STRUCTURE
Rolos de tr s carreiras

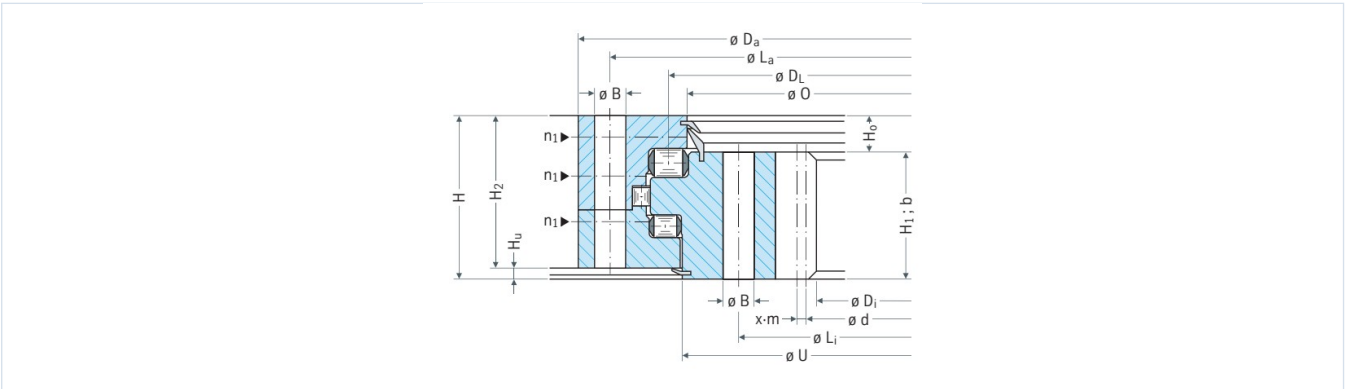
OVERALL OD
4,738 mm

OVERALL ID
4,128 mm

OVERALL HEIGHT
220 mm

GEAR
Engrenagem interna

Published Technical Drawing



page-102-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	192.40.4500.990.41.1502
Certified interchangeable with	Rothe Erde 192.40.4500.990.41.1502
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	2WYD6MRSJJKX7OMOQI2XA2RXB
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	19 Series
Reference model	192.40.4500.990.41.1502
Bearing structure	Rolos de tr s carreiras
Gear arrangement	Engrenagem interna
DIMENSION	
Raceway diameter (DL)	4.500 mm
Overall outside diameter (Da)	4.738 mm
Overall inside diameter (Di)	4.128 mm

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.

DIMENSION (CONTINUED)	
Overall height (H)	220 mm
Catalog diameter O (O)	4.450 mm
Catalog diameter U (U)	4.463 mm
Ring height H1 (H1)	170 mm
Ring height H2 (H2)	210 mm
Lower ring offset Hu (Hu)	10 mm
Upper ring offset Ho (Ho)	50 mm
Assembly weight (Weight)	5.367 kg
MOUNTING	
Outer ring bolt circle (La)	4.660 mm
Inner ring bolt circle (Li)	4.335 mm
Common mounting-hole count (n)	84
Common mounting-hole diameter (B)	39 mm
Metric bolt nominal size (M)	36 mm
GEAR	
Gear pitch diameter (d)	4.152 mm
Gear module (m)	24 mm
Gear tooth count (z)	173
Profile shift product x m (x*m)	-12 mm
Minimum gear face width (bmin)	169 mm

Complete Product Data

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PERFORMANCE	
Permitted circumferential force, normal (X1)	352,7 kN
Permitted circumferential force, maximum (X2)	705,39 kN
MISCELLANEOUS	
Grease nipple count (n1)	14
PERFORMANCE RATINGS	
Catalog Reference X1	352,7 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	705,39 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	84 holes - B 39
Inner ring mounting	84 holes - M 36
GEAR INTERFACE	
Pitch system	module
Module reference	24 mm
Number of teeth	173
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	102
Printed page	198-199
Source language	EN
Original unit system	Metric

Complete Product Data

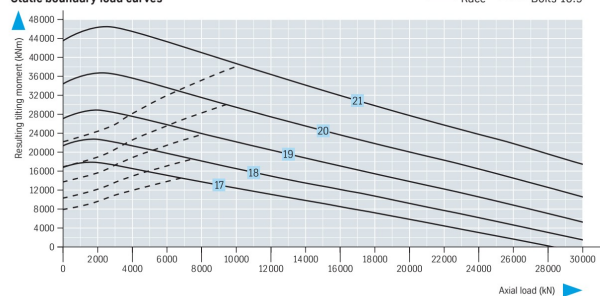
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-102-load-curves.png SHA-256: 5e5a4c23c6b53c5fb4528114e40eea8d89db41ef50619f490abedc9c7c cf2ef6
Outline Drawing	page-102-outline.png SHA-256: ad0e900339c1e9b6d101a05817bde85c95059d9cc3fd91962cc615ba56 6bfcbc

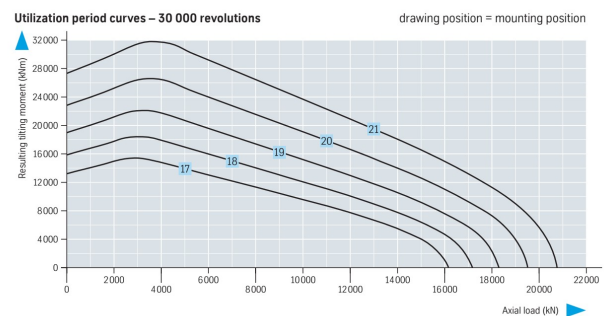
Published Load / Performance Chart

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-102-load-curves.png | SHA-256: 5e5a4c23c6b53c5fb4528114e40eea8d89db41ef50619f490abedc9c7ccf2ef6

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**2WYD6MRSJLX7OMOQI2XA2RXB****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 102 | Printed page 198-199****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/192-40-4500-990-41-1502/>

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