

Factory-Verified Replacement

MERYDOM 191.40.4500.990.41.1502

Certified for interchange with Rothe Erde
191.40.4500.990.41.1502. 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

191.40.4500.990.41.1502

REFERENCE

Rothe Erde 191.40.4500.990.41.1502

SERIES

19 Series

STRUCTURE

Rolos de três carreiras

OVERALL OD

4,867.2 mm

OVERALL ID

4,262 mm

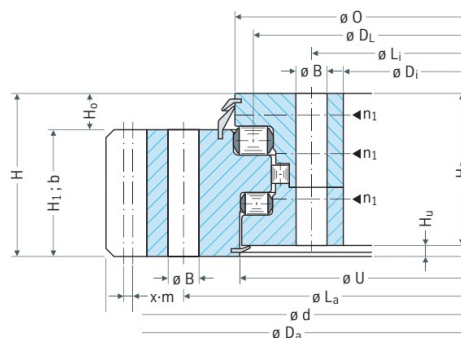
OVERALL HEIGHT

220 mm

GEAR

Engrenagem externa

Published Technical Drawing



page-101-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	191.40.4500.990.41.1502
Certified interchangeable with	Rothe Erde 191.40.4500.990.41.1502
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	PLVLWIJRBi5SPXJUH0WD6DYL7V
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	191.40.4500.990.41.1502
Bearing structure	Rolos de tr s carreiras
Gear arrangement	Engrenagem externa
DIMENSION	
Raceway diameter (DL)	4.500 mm
Overall outside diameter (Da)	4.867,2 mm
Overall inside diameter (Di)	4.262 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	220 mm
Catalog diameter O (O)	4.550 mm
Catalog diameter U (U)	4.537 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)	5.410 kg
MOUNTING	
Outer ring bolt circle (La)	4.665 mm
Inner ring bolt circle (Li)	4.340 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)	4.800 mm
Gear module (m)	24 mm
Gear tooth count (z)	200
Profile shift product x m (x*m)	12 mm
Tip-height modification product k m (k*m)	-2,4 mm

Complete Product Data

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GEAR (CONTINUED)	
Minimum gear face width (bmin)	169 mm
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 - M 36
Inner ring mounting	84 holes - B 39
GEAR INTERFACE	
Pitch system	module
Module reference	24 mm
Number of teeth	200
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	101
Printed page	196-197

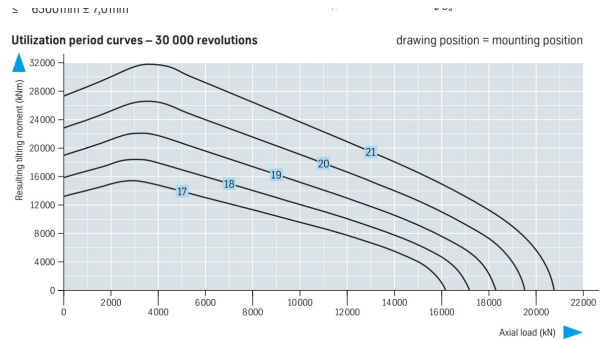
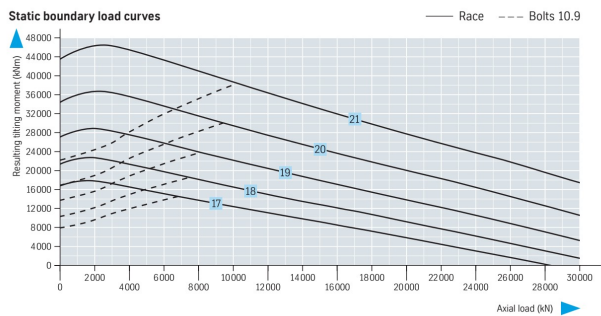
Complete Product Data

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-101-load-curves.png SHA-256: 9f2a339ba61d022ee055d3b4ebd6eef03bd1653cff253d94d3607246d27991f0
Outline Drawing	page-101-outline.png SHA-256: 76b41f3a72e4f2995e3b8c9e006f3772ee466d177c6823093f4d1a9ac785e998

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.



page-101-load-curves.png | SHA-256: 9f2a339ba61d022ee055d3b4ebd6eef03bd1653cff253d94d3607246d27991f0

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 PLVLWIJRBI5SPXJUHOWD6DYL7V	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 101 Printed page 196-197
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/pt/produtos/rolamentos-de-giro-de-substituicao/rothe-erde/191-40-4500-990-41-1502/>

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