

Factory-Verified Replacement

MERYDOM 191.50.4500.990.41.1502

Certified for interchange with Rothe Erde 191.50.4500.990.41.1502. 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
191.50.4500.990.41.1502

REFERENCE
Rothe Erde 191.50.4500.990.41.1502

SERIES
19 Series

STRUCTURE
Rulli a tre file

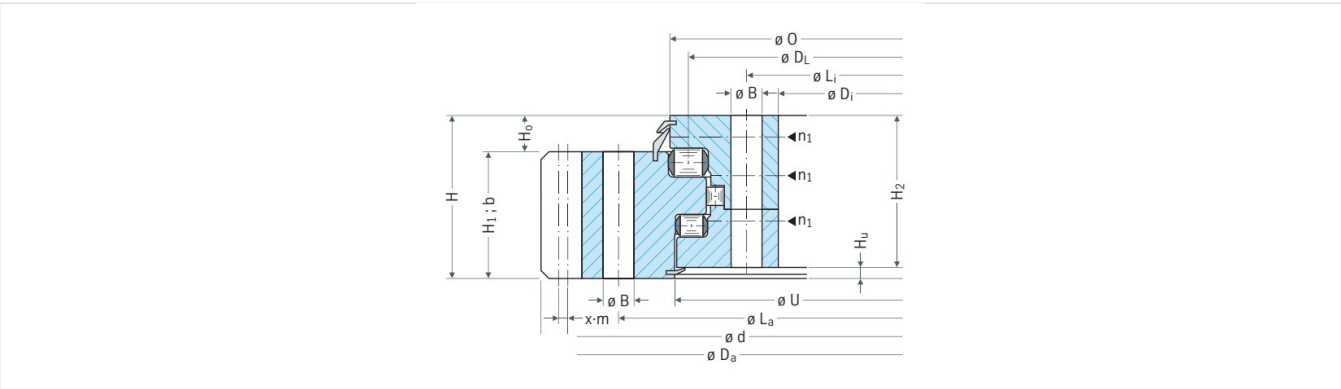
OVERALL OD
4,915.2 mm

OVERALL ID
4,235 mm

OVERALL HEIGHT
268 mm

GEAR
Dentatura esterna

Published Technical Drawing



page-103-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	191.50.4500.990.41.1502
Certified interchangeable with	Rothe Erde 191.50.4500.990.41.1502
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	EHQWGXSDBDVG7GHDEC4MQ5TK3E
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	191.50.4500.990.41.1502
Bearing structure	Rulli a tre file
Gear arrangement	Dentatura esterna
DIMENSION	
Raceway diameter (DL)	4.500 mm
Overall outside diameter (Da)	4.915,2 mm
Overall inside diameter (Di)	4.235 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	268 mm
Catalog diameter O (O)	4.560 mm
Catalog diameter U (U)	4.546 mm
Ring height H1 (H1)	203 mm
Ring height H2 (H2)	258 mm
Lower ring offset Hu (Hu)	10 mm
Upper ring offset Ho (Ho)	65 mm
Assembly weight (Weight)	7.456 kg
MOUNTING	
Outer ring bolt circle (La)	4.700 mm
Inner ring bolt circle (Li)	4.325 mm
Common mounting-hole count (n)	68
Common mounting-hole diameter (B)	45 mm
Metric bolt nominal size (M)	42 mm
GEAR	
Gear pitch diameter (d)	4.848 mm
Gear module (m)	24 mm
Gear tooth count (z)	202
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)	202 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	421,57 kN
Permitted circumferential force, maximum (X2)	843,13 kN
MISCELLANEOUS	
Grease nipple count (n1)	11
PERFORMANCE RATINGS	
Catalog Reference X1	421,57 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	843,13 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	68 holes - M 42
Inner ring mounting	68 holes - B 45
GEAR INTERFACE	
Pitch system	module
Module reference	24 mm
Number of teeth	202
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	103
Printed page	200-201

Complete Product Data

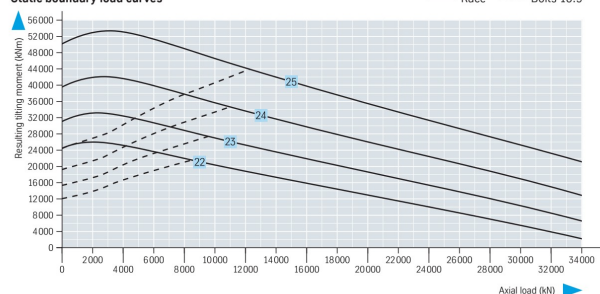
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-103-load-curves.png SHA-256: 87a2924b78827d7d1a74823f715c6a33fbf9165b0f528019948b29040d48e30a
Outline Drawing	page-103-outline.png SHA-256: 76b41f3a72e4f2995e3b8c9e006f3772ee466d177c6823093f4d1a9ac785e998

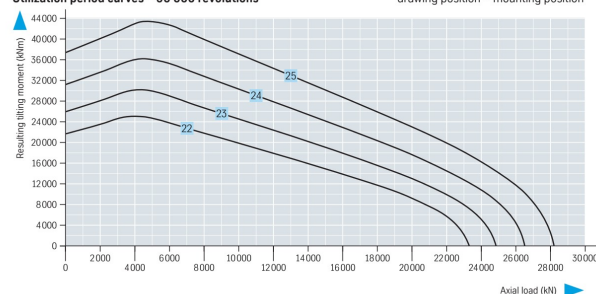
Published Load / Performance Chart

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.

Static boundary load curves



Utilization period curves – 30 000 revolutions



page-103-load-curves.png | SHA-256: 87a2924b78827d7d1a74823f715c6a33fbf9165b0f528019948b29040d48e30a

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**EHQWGXSDBDVG7GHDEC4MQ5TK3E****SOURCE DOCUMENT****ROTHERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 103 | Printed page 200-201****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/191-50-4500-990-41-1502/>

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