

Factory-Verified Replacement

MERYDOM 092.25.1154.991.21.1503

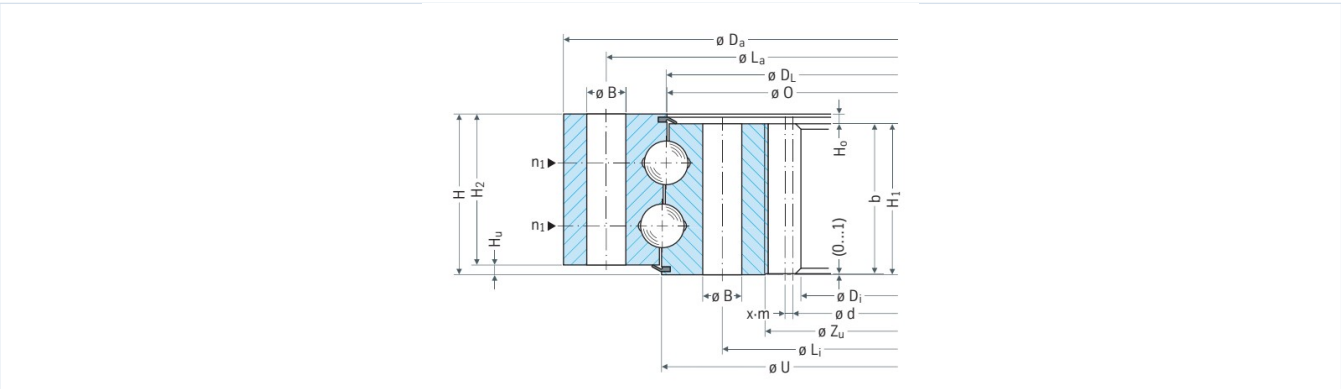
Certified for interchange with Rothe Erde 092.25.1154.991.21.1503. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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
092.25.1154.991.21.1503	Rothe Erde 092.25.1154.991.21.1503
SERIES	STRUCTURE
09 Series	Esferas de contato de quatro pontos de duas carreiras
OVERALL OD	OVERALL ID
1,290 mm	972 mm
OVERALL HEIGHT	GEAR
104 mm	Engrenagem interna

Published Technical Drawing



page-086-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	092.25.1154.991.21.1503
Certified interchangeable with	Rothe Erde 092.25.1154.991.21.1503
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	J4V3NFFCB7BMRVUBXXGQBOGSC7
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	09 Series
Reference model	092.25.1154.991.21.1503
Bearing structure	Esferas de contato de quatro pontos de duas carreiras
Gear arrangement	Engrenagem interna
DIMENSION	
Raceway diameter (DL)	1.154 mm
Overall outside diameter (Da)	1.290 mm
Overall inside diameter (Di)	972 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	104 mm
Catalog diameter O (O)	1.153 mm
Catalog diameter U (U)	1.160 mm
Ring height H1 (H1)	95 mm
Ring height H2 (H2)	95 mm
Lower ring offset Hu (Hu)	9 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	351 kg
MOUNTING	
Outer ring bolt circle (La)	1.232 mm
Inner ring bolt circle (Li)	1.081 mm
Common mounting-hole count (n)	40
Common mounting-hole diameter (B)	26 mm
Metric bolt nominal size (M)	24 mm
GEAR	
Gear pitch diameter (d)	984 mm
Gear module (m)	12 mm
Gear tooth count (z)	82
Profile shift product x m (x*m)	-6 mm
Tip-height modification product k m (k*m)	0 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.

GEAR (CONTINUED)	
Minimum gear face width (bmin)	94 mm
Root-neck diameter Zu (Zu)	1.029 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	103,54 kN
Permitted circumferential force, maximum (X2)	207,07 kN
MISCELLANEOUS	
Grease nipple count (n1)	4
PERFORMANCE RATINGS	
Catalog Reference X1	103,54 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	207,07 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	40 holes - B 26
Inner ring mounting	40 holes - M 24
GEAR INTERFACE	
Pitch system	module
Module reference	12 mm
Number of teeth	82
SOURCE TRACEABILITY	
Source document code	ROTHERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	86

Complete Product Data

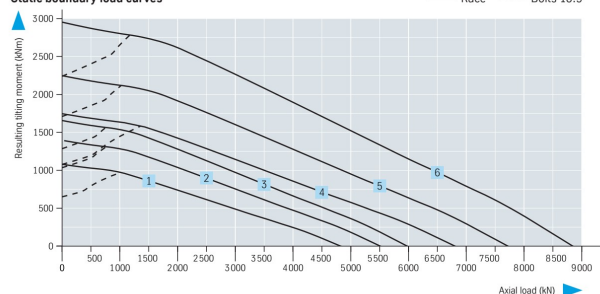
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Printed page	166-167
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-086-load-curves.png SHA-256: e51365c7cd31738aaa3b594aa50cec15525cedbd9a332aa4c75e8a39db48929a
Outline Drawing	page-086-outline.png SHA-256: c025164dd9c380f3e04a3029b604345eb22e768de39b68c1bc72dbb242b3fc95

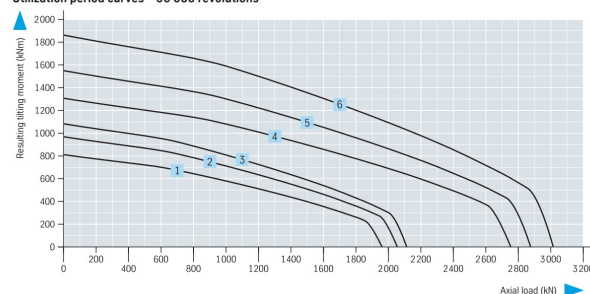
Published Load / Performance Chart

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-086-load-curves.png | SHA-256: e51365c7cd31738aaa3b594aa50cec15525cedbd9a332aa4c75e8a39db48929a

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**J4V3NFFCB7BMRVUBXXGQBOGSC7****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 86 | Printed page 166-167****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/092-25-1154-991-21-1503/>

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