

Factory-Verified Replacement

MERYDOM 092.40.2003.990.11.1502

Certified for interchange with Rothe Erde 092.40.2003.990.11.1502. 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

092.40.2003.990.11.1502

SERIES

09 Series

OVERALL OD

2,192 mm

OVERALL HEIGHT

148 mm

REFERENCE

Rothe Erde 092.40.2003.990.11.1502

STRUCTURE

Sfere a quattro punti di contatto a due corone

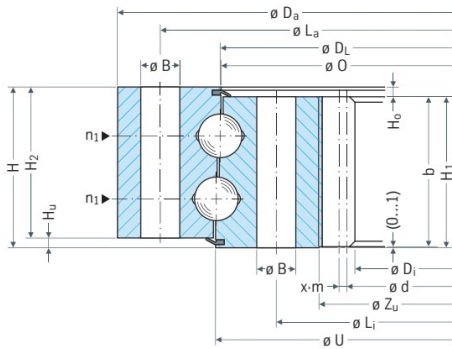
OVERALL ID

1,750 mm

GEAR

Dentatura interna

Published Technical Drawing



page-092-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	092.40.2003.990.11.1502
Certified interchangeable with	Rothe Erde 092.40.2003.990.11.1502
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	DJZ2MOYBKJK4NKI2VBAG4JMGGR
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	092.40.2003.990.11.1502
Bearing structure	Sfere a quattro punti di contatto a due corone
Gear arrangement	Dentatura interna
DIMENSION	
Raceway diameter (DL)	2.003 mm
Overall outside diameter (Da)	2.192 mm
Overall inside diameter (Di)	1.750 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	148 mm
Catalog diameter O (O)	2.001 mm
Catalog diameter U (U)	2.011 mm
Ring height H1 (H1)	139 mm
Ring height H2 (H2)	139 mm
Lower ring offset Hu (Hu)	9 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	1.221 kg
MOUNTING	
Outer ring bolt circle (La)	2.113 mm
Inner ring bolt circle (Li)	1.899 mm
Common mounting-hole count (n)	60
Common mounting-hole diameter (B)	36 mm
Metric bolt nominal size (M)	33 mm
GEAR	
Gear pitch diameter (d)	1.764 mm
Gear module (m)	14 mm
Gear tooth count (z)	126
Profile shift product x m (x*m)	-7 mm
Tip-height modification product k m (k*m)	0 mm

Complete Product Data

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GEAR (CONTINUED)	
Minimum gear face width (bmin)	138 mm
Root-neck diameter Zu (Zu)	1.819 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	121,33 kN
Permitted circumferential force, maximum (X2)	242,67 kN
MISCELLANEOUS	
Grease nipple count (n1)	10
PERFORMANCE RATINGS	
Catalog Reference X1	121,33 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	242,67 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	60 holes - B 36
Inner ring mounting	60 holes - M 33
GEAR INTERFACE	
Pitch system	module
Module reference	14 mm
Number of teeth	126
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	92

Complete Product Data

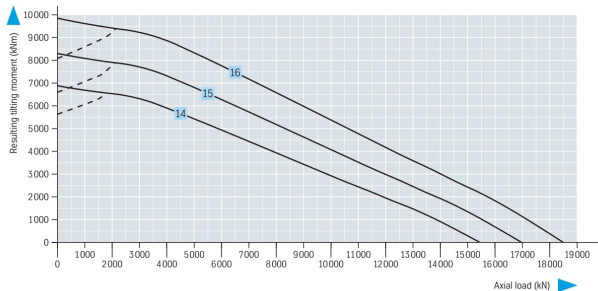
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Printed page	178-179
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-092-load-curves.png SHA-256: 4542dbf981be5d22df4700b44bf3c89b045395e558a7fc39dfc4ebcec7745d9b
Outline Drawing	page-092-outline.png SHA-256: c025164dd9c380f3e04a3029b604345eb22e768de39b68c1bc72dbb242b3fc95

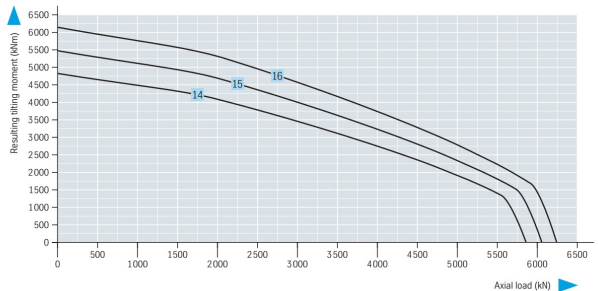
Published Load / Performance Chart

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-092-load-curves.png | SHA-256: 4542dbf981be5d22df4700b44bf3c89b045395e558a7fc39dfc4ebcec7745d9b

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**DJZ2MOYBKJK4NKI2VBAG4JMGGR****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 92 | Printed page 178-179****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/it/prodotti/cuscinetti-di-rotazione-sostitutivi/rothe-erde/092-40-2003-990-11-1502/>

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