

Factory-Verified Replacement

MERYDOM 192.50.5000.990.41.1501

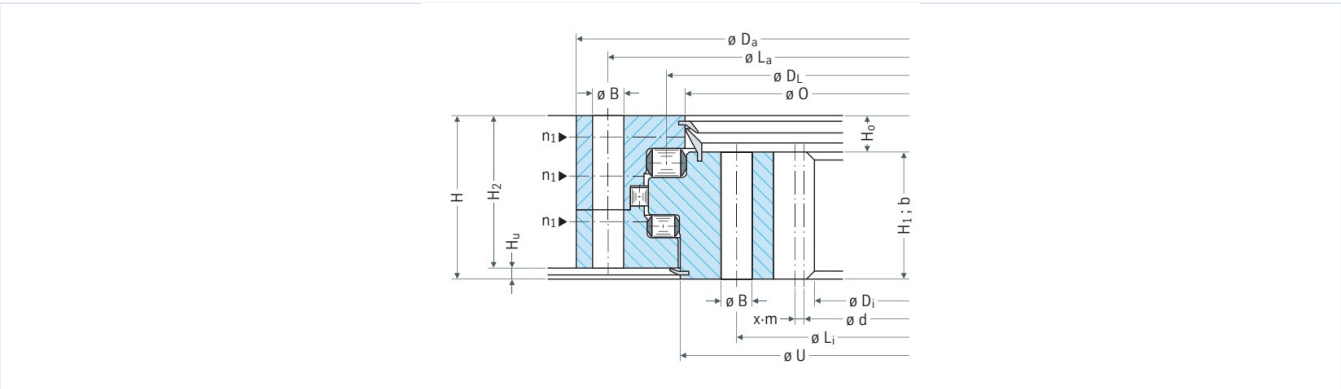
Certified for interchange with Rothe Erde 192.50.5000.990.41.1501. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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
192.50.5000.990.41.1501	Rothe Erde 192.50.5000.990.41.1501
SERIES	STRUCTURE
19 Series	s ral makaral
OVERALL OD	OVERALL ID
5,265 mm	4,584 mm
OVERALL HEIGHT	GEAR
268 mm	ten di li

Published Technical Drawing



page-106-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	192.50.5000.990.41.1501
Certified interchangeable with	Rothe Erde 192.50.5000.990.41.1501
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	PGGSMHA4R3UXPMKWZC4PT2HCGA
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	192.50.5000.990.41.1501
Bearing structure	s ral makaral
Gear arrangement	ten di li
DIMENSION	
Raceway diameter (DL)	5 000 mm
Overall outside diameter (Da)	5 265 mm
Overall inside diameter (Di)	4 584 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)	268 mm
Catalog diameter O (O)	4 940 mm
Catalog diameter U (U)	4 954 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)	8 182 kg
MOUNTING	
Outer ring bolt circle (La)	5 175 mm
Inner ring bolt circle (Li)	4 800 mm
Common mounting-hole count (n)	78
Common mounting-hole diameter (B)	45 mm
Metric bolt nominal size (M)	42 mm
GEAR	
Gear pitch diameter (d)	4 608 mm
Gear module (m)	24 mm
Gear tooth count (z)	192
Profile shift product x m (x*m)	-12 mm
Minimum gear face width (bmin)	202 mm

Complete Product Data

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PERFORMANCE	
Permitted circumferential force, normal (X1)	421,57 kN
Permitted circumferential force, maximum (X2)	843,13 kN
MISCELLANEOUS	
Grease nipple count (n1)	13
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	78 holes - B 45
Inner ring mounting	78 holes - M 42
GEAR INTERFACE	
Pitch system	module
Module reference	24 mm
Number of teeth	192
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	106
Printed page	206-207
Source language	EN
Original unit system	Metric

Complete Product Data

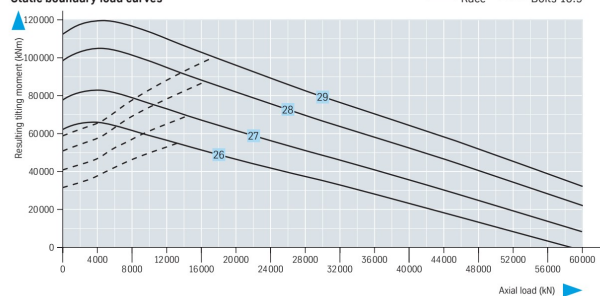
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PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-106-load-curves.png SHA-256: 9960f6076aef85729403e2cad588123ba7da3446413f19e756b6bc7e4e50f123
Outline Drawing	page-106-outline.png SHA-256: ad0e900339c1e9b6d101a05817bde85c95059d9cc3fd91962cc615ba566bfcbc

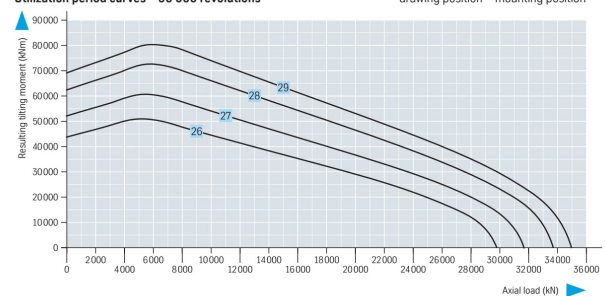
Published Load / Performance Chart

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-106-load-curves.png | SHA-256: 9960f6076aef85729403e2cad588123ba7da3446413f19e756b6bc7e4e50f123

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 PGGSMHA4R3UXPMKWZC4PT2HCGA	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 106 Printed page 206-207
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/tr/urunler/muadil-doner-tabla-rulmanlari/rothe-erde/192-50-5000-990-41-1501/>

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