

MERYDOM 192.25.2500.990.41.1502

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

GEAR

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	192.25.2500.990.41.1502
Certified interchangeable with	Rothe Erde 192.25.2500.990.41.1502
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	L4OQPR5MJKB4KOCFSKRFCAAZ5H
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	192.25.2500.990.41.1502
Bearing structure	Three-row roller
Gear arrangement	Internal gear
DIMENSION	
Raceway diameter (DL)	2,500 mm
Overall outside diameter (Da)	2,681 mm
Overall inside diameter (Di)	2,214 mm

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DIMENSION (CONTINUED)	
Overall height (H)	147 mm
Catalog diameter O (O)	2,463 mm
Catalog diameter U (U)	2,474 mm
Ring height H1 (H1)	117 mm
Ring height H2 (H2)	138 mm
Lower ring offset Hu (Hu)	9 mm
Upper ring offset Ho (Ho)	30 mm
Assembly weight (Weight)	1,545 kg
MOUNTING	
Outer ring bolt circle (La)	2,615 mm
Inner ring bolt circle (Li)	2,375 mm
Common mounting-hole count (n)	54
Common mounting-hole diameter (B)	33 mm
Metric bolt nominal size (M)	30 mm
GEAR	
Gear pitch diameter (d)	2,232 mm
Gear module (m)	18 mm
Gear tooth count (z)	124
Profile shift product x m (x*m)	-9 mm
Minimum gear face width (bmin)	116 mm

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PERFORMANCE	
Permitted circumferential force, normal (X1)	181.57 kN
Permitted circumferential force, maximum (X2)	363.13 kN
MISCELLANEOUS	
Grease nipple count (n1)	6
PERFORMANCE RATINGS	
Catalog Reference X1	181.57 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	363.13 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	54 holes - B 33
Inner ring mounting	54 holes - M 30
GEAR INTERFACE	
Pitch system	module
Module reference	18 mm
Number of teeth	124
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	98
Printed page	190-191
Source language	EN
Original unit system	Metric

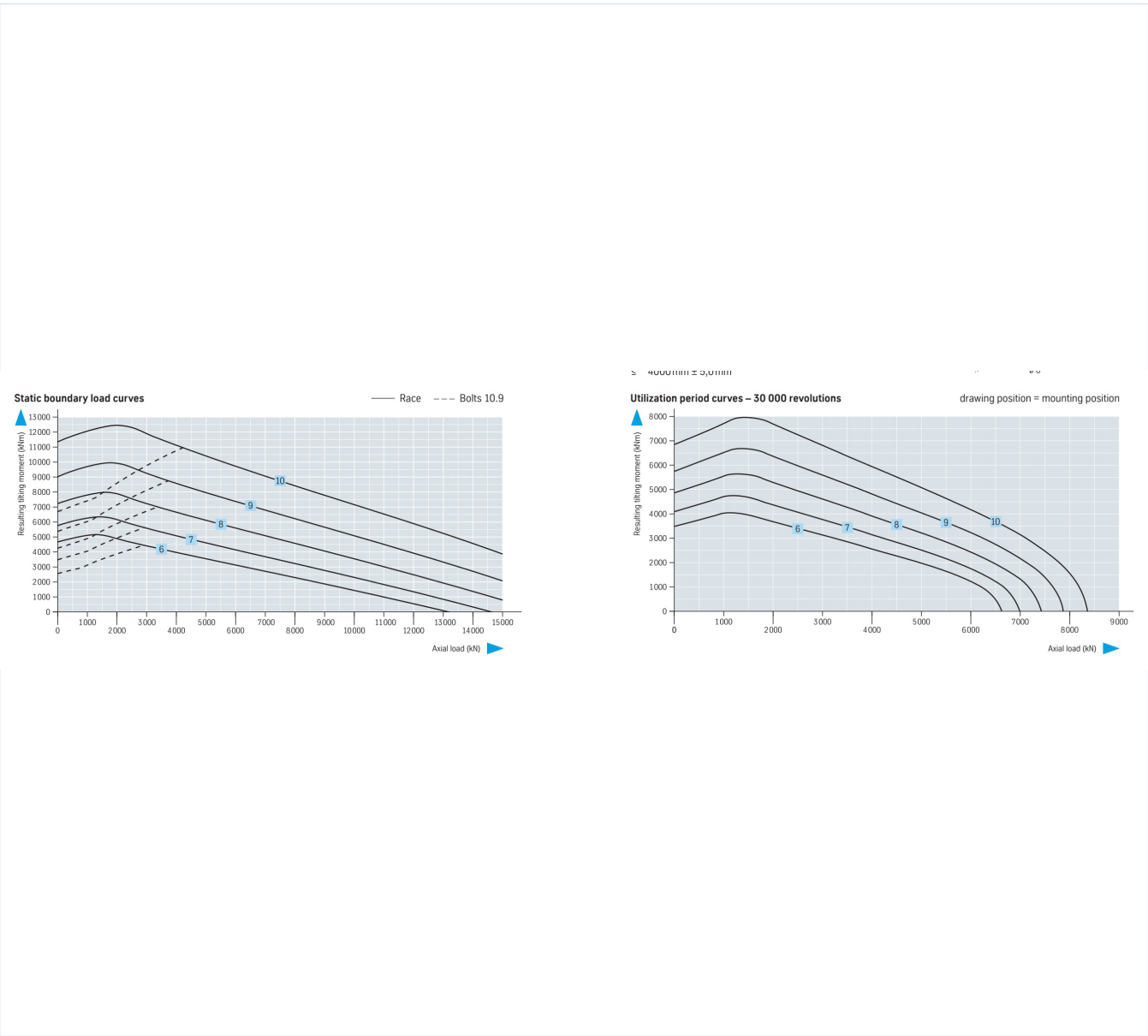
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PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-098-load-curves.png SHA-256: 7384570ed574af72c1df606e4d468ce8531af0a36c85a86c6764faa1c31a4539
Outline Drawing	page-098-outline.png SHA-256: ad0e900339c1e9b6d101a05817bde85c95059d9cc3fd91962cc615ba566bfcbc

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.



page-098-load-curves.png | SHA-256: 7384570ed574af72c1df606e4d468ce8531af0a36c85a86c6764faa1c31a4539

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 L4OQPR5MJKB4KOCFSKRFCAAZ5H	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 98 Printed page 190-191
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/products/slewing-bearing-replacements/rothe-erde/192-25-2500-990-41-1502/>

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