

MERYDOM 192.50.5600.990.41.1502

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

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	192.50.5600.990.41.1502
Certified interchangeable with	Rothe Erde 192.50.5600.990.41.1502
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	6OJPDQOVNNDQHK5SEBL4NB6WYZ
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	192.50.5600.990.41.1502
Bearing structure	Three-row roller
Gear arrangement	Internal gear
DIMENSION	
Raceway diameter (DL)	5,600 mm
Overall outside diameter (Da)	5,865 mm
Overall inside diameter (Di)	5,184 mm

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DIMENSION (CONTINUED)	
Overall height (H)	268 mm
Catalog diameter O (O)	5,540 mm
Catalog diameter U (U)	5,554 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)	9,317 kg
MOUNTING	
Outer ring bolt circle (La)	5,775 mm
Inner ring bolt circle (Li)	5,400 mm
Common mounting-hole count (n)	90
Common mounting-hole diameter (B)	45 mm
Metric bolt nominal size (M)	42 mm
GEAR	
Gear pitch diameter (d)	5,208 mm
Gear module (m)	24 mm
Gear tooth count (z)	217
Profile shift product x m (x*m)	-12 mm
Minimum gear face width (bmin)	202 mm

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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)	15
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	90 holes - B 45
Inner ring mounting	90 holes - M 42
GEAR INTERFACE	
Pitch system	module
Module reference	24 mm
Number of teeth	217
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

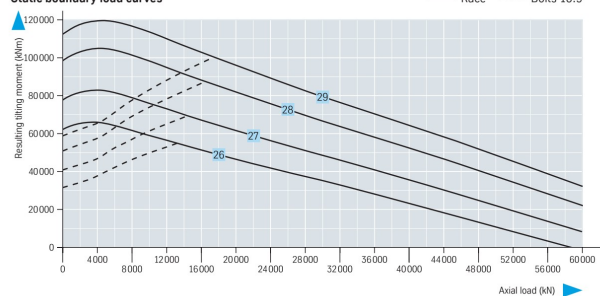
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

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

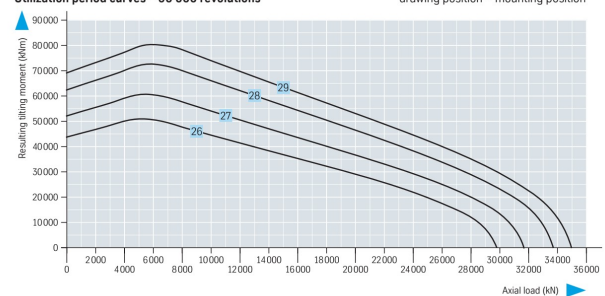
Published Load / Performance Chart

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 6OJPDQOVNNDOK5SEBL4NB6WYZ	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/products/slewing-bearing-replacements/rothe-erde/192-50-5600-990-41-1502/>

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