

MERYDOM 062.25.1077.304.21.1504

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	062.25.1077.304.21.1504
Certified interchangeable with	Rothe Erde 062.25.1077.304.21.1504
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	NNPCV45PRHT3GAKE7BQYBI4LJO
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	06 Series
Reference model	062.25.1077.304.21.1504
Bearing structure	Single-row four-point contact ball
Gear arrangement	Internal gear
DIMENSION	
Raceway diameter (DL)	1,077 mm
Overall outside diameter (Da)	1,170 mm
Overall inside diameter (Di)	960 mm

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DIMENSION (CONTINUED)	
Overall height (H)	84 mm
Catalog diameter O (O)	1,076 mm
Catalog diameter U (U)	1,078 mm
Ring height H1 (H1)	66 mm
Ring height H2 (H2)	64 mm
Lower ring offset Hu (Hu)	20 mm
Upper ring offset Ho (Ho)	18 mm
Assembly weight (Weight)	148 kg
MOUNTING	
Outer ring bolt circle (La)	1,134 mm
Inner ring bolt circle (Li)	1,040 mm
Common mounting-hole count (n)	36
Common mounting-hole diameter (B)	17.5 mm
Metric bolt nominal size (M)	16 mm
Thread depth (t)	24 mm
GEAR	
Gear pitch diameter (d)	980 mm
Gear module (m)	10 mm
Gear tooth count (z)	98
Profile shift product x m (x*m)	0 mm

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GEAR (CONTINUED)	
Minimum gear face width (bmin)	61 mm
Root-neck diameter Zu (Zu)	1,010 mm
Root-neck height hu (hu)	5 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	53.15 kN
Permitted circumferential force, maximum (X2)	106.3 kN
MISCELLANEOUS	
Grease nipple count (n1)	6
PERFORMANCE RATINGS	
Catalog Reference X1	53.15 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	106.3 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - B 17,5
Inner ring mounting	36 holes - M 16
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	98
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf

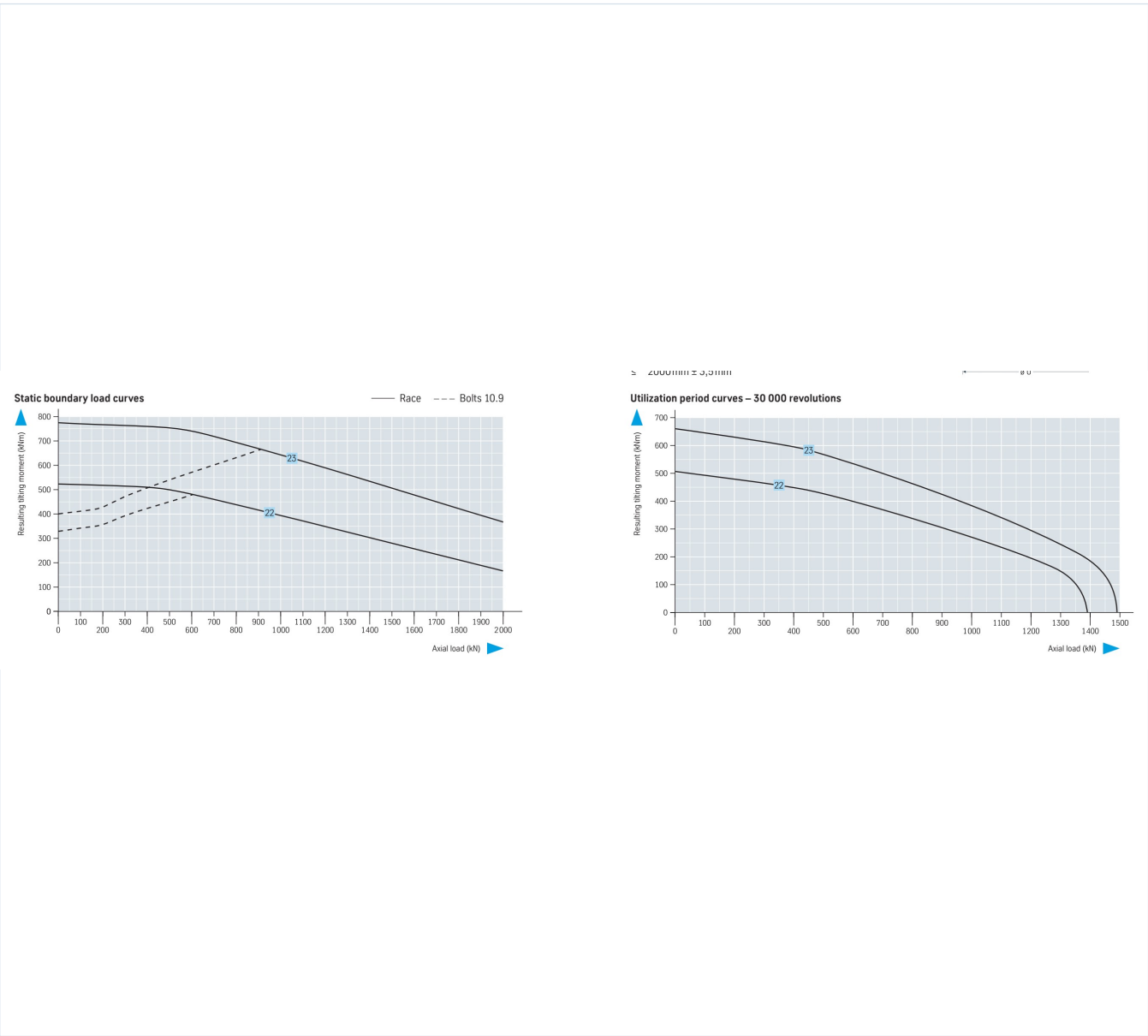
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SOURCE TRACEABILITY (CONTINUED)	
PDF page	79
Printed page	152-153
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-079-load-curves.png SHA-256: f931482f9b9d4406c7b0b4fde0cdfafa27dbbaa2c2ffaae674388f11fb a54d2b
Outline Drawing	page-079-outline.png SHA-256: 1e5cedf4230dd90fe118843928b1e61e1deb8fa0671447d780cf6b4731 5e6e16

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-079-load-curves.png | SHA-256: f931482f9b9d4406c7b0b4fde0cdfafa27dbbaa2c2ffaee674388f11fba54d2b

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 NNPCV45PRHT3GAKE7BQYBI4LJO	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 79 Printed page 152-153
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/062-25-1077-304-21-1504/>

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