

Factory-Verified Replacement

MERYDOM 062.20.0644.575.01.1403

Certified for interchange with Rothe Erde 062.20.0644.575.01.1403. 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

062.20.0644.575.01.1403

REFERENCE

Rothe Erde 062.20.0644.575.01.1403

SERIES

06 Series

STRUCTURE

Sfere a quattro punti di contatto a una corona

OVERALL OD

714.5 mm

OVERALL ID

547.2 mm

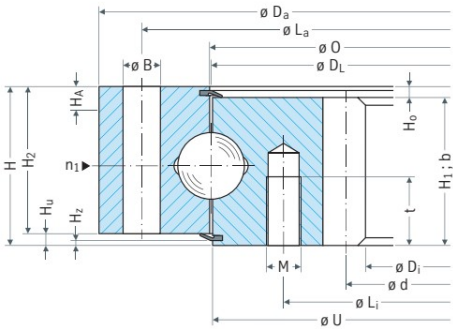
OVERALL HEIGHT

56 mm

GEAR

Dentatura interna

Published Technical Drawing



page-066-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	062.20.0644.575.01.1403
Certified interchangeable with	Rothe Erde 062.20.0644.575.01.1403
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	NHWNHWLZRGFUMF425SAR3R566T
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	062.20.0644.575.01.1403
Bearing structure	Sfere a quattro punti di contatto a una corona
Gear arrangement	Dentatura interna
DIMENSION	
Raceway diameter (DL)	644 mm
Overall outside diameter (Da)	714,5 - 0,13 mm
Overall inside diameter (Di)	547,2 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	56 mm
Catalog diameter O (O)	645,5 mm
Catalog diameter U (U)	641 - 0,13 mm
Ring height H1 (H1)	45,5 mm
Ring height H2 (H2)	45,5 mm
Lower ring offset Hu (Hu)	10,5 mm
Upper ring offset Ho (Ho)	10,5 mm
Assembly weight (Weight)	50 kg
Axial bearing play (Y_axial)	0 mm
Radial bearing play (Y_radial)	0 to 0,04 mm
MOUNTING	
Outer ring bolt circle (La)	690 mm
Inner ring bolt circle (Li)	605 mm
La/Li mounting-hole count (n_La_Li)	36
Common mounting-hole diameter (B)	13,5 mm
Metric bolt nominal size (M)	12 mm
Thread depth (t)	20 mm
GEAR	
Gear pitch diameter (d)	558 mm
Gear module (m)	6 mm

Complete Product Data

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GEAR (CONTINUED)	
Gear tooth count (z)	93
Tip-height modification product k m (k*m)	-0,6 mm
Minimum gear face width (bmin)	45,5 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	15,62 kN
Permitted circumferential force, maximum (X2)	31,24 kN
PERFORMANCE RATINGS	
Catalog Reference X1	15,62 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	31,24 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	36 holes - B 13,5
Inner ring mounting	36 holes - M 12
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	93
SOURCE TRACEABILITY	
Source document code	ROTHERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	66

Complete Product Data

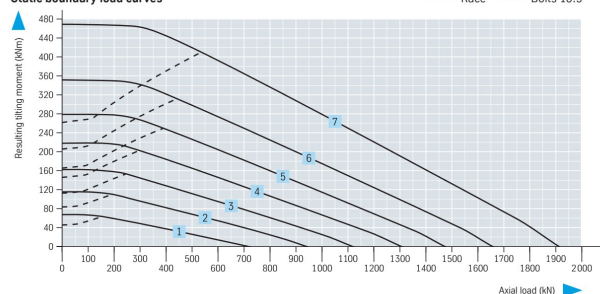
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Printed page	126-127
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-066-load-curves.png SHA-256: 769c0deab8f0e49d9c2c1a026883d07cc1323402b3c9aeaea02c67008f349ac8
Outline Drawing	page-066-outline.png SHA-256: a73d96bfe061a4bcfaad3e752b396d8c747ea1c255c2dc72f60ca291b7f9e595

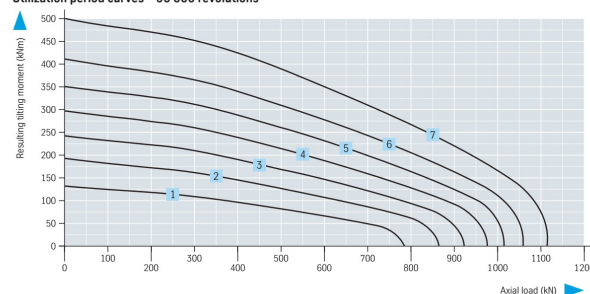
Published Load / Performance Chart

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-066-load-curves.png | SHA-256: 769c0deab8f0e49d9c2c1a026883d07cc1323402b3c9aeaea02c67008f349ac8

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**NHWNHWLZRGFUMF425SAR3R566T****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 66 | Printed page 126-127****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/062-20-0644-575-01-1403/>

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