Factory-Verified Replacement

MERYDOM 062.30.1600.001.21.1504

Certified for interchange with Rothe Erde 062.30.1600.001.21.1504. 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

062.30.1600.001.21.1504

REFERENCE

Rothe Erde 062.30.1600.001.21.1504

SERIES

06 Series

STRUCTURE

Sfere a quattro punti di contatto a una corona

OVERALL OD

1,712 mm

OVERALL ID

1,428 mm

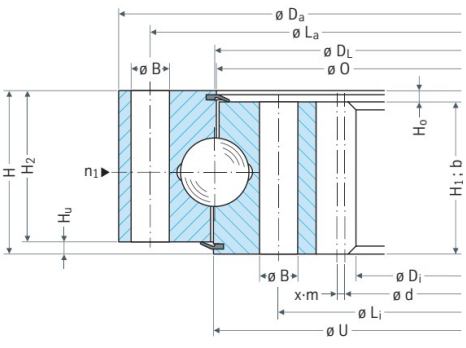
OVERALL HEIGHT

89 mm

GEAR

Dentatura interna

Published Technical Drawing



page-082-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	062.30.1600.001.21.1504
Certified interchangeable with	Rothe Erde 062.30.1600.001.21.1504
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	NJ2LYIFMFA7CRNLKX3HNVWEDYJ
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	062.30.1600.001.21.1504
Bearing structure	Sfere a quattro punti di contatto a una corona
Gear arrangement	Dentatura interna
DIMENSION	
Raceway diameter (DL)	1.600 mm
Overall outside diameter (Da)	1.712 mm
Overall inside diameter (Di)	1.428 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	89 mm
Catalog diameter O (O)	1.598 mm
Catalog diameter U (U)	1.601 mm
Ring height H1 (H1)	80 mm
Ring height H2 (H2)	63 mm
Lower ring offset Hu (Hu)	26 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	334 kg
MOUNTING	
Outer ring bolt circle (La)	1.668 mm
Inner ring bolt circle (Li)	1.532 mm
Common mounting-hole count (n)	48
Common mounting-hole diameter (B)	22 mm
Metric bolt nominal size (M)	20 mm
GEAR	
Gear pitch diameter (d)	1.440 mm
Gear module (m)	12 mm
Gear tooth count (z)	120
Profile shift product x m (x*m)	-6 mm
Minimum gear face width (bmin)	79 mm

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PERFORMANCE	
Permitted circumferential force, normal (X1)	87 kN
Permitted circumferential force, maximum (X2)	174 kN
MISCELLANEOUS	
Grease nipple count (n1)	8
PERFORMANCE RATINGS	
Catalog Reference X1	87 kN | Not simultaneous with other listed dynamic ratings
Catalog Reference X2	174 kN | Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	48 holes - B 22
Inner ring mounting	48 holes - M 20
GEAR INTERFACE	
Pitch system	module
Module reference	12 mm
Number of teeth	120
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	82
Printed page	158-159
Source language	EN
Original unit system	Metric

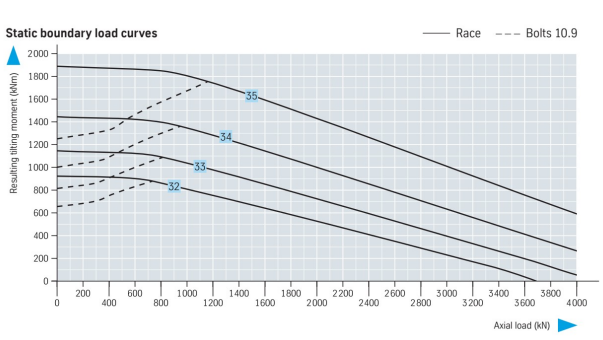
Complete Product Data

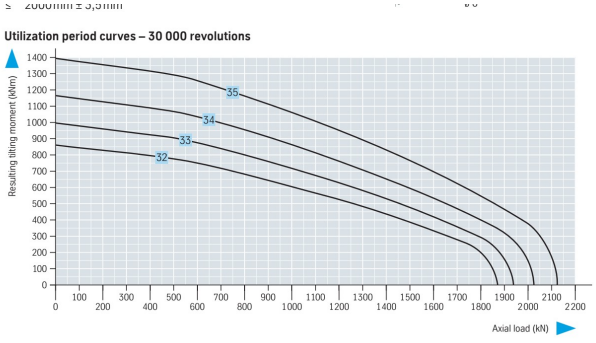
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-082-load-curves.png | SHA-256: 8049cc755bf33efa8071f18ae6c1bd164b055ce1adef92d4f8083ec674a99475
Outline Drawing	page-082-outline.png | SHA-256: 77680d2d39e251c34653a71ba28a8e4313963324f564029655b05e8f35643d6c

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-082-load-curves.png | SHA-256: 8049cc755bf33efa8071f18ae6c1bd164b055ce1adef92d4f8083ec674a99475

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

NJ2LYIFMFA7CRNLKX3HNVWEDYJ

SOURCE DOCUMENT

ROTHE_ERDE_CATALOG_2023

SOURCE FILE

Rothe Erde.pdf

SOURCE LOCATION

PDF page 82 | Printed page 158-159

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/062-30-1600-001-21-1504/