Factory-Verified Replacement

MERYDOM 232.20.0500.013

Certified for interchange with Rothe Erde 232.20.0500.013. 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
232.20.0500.013

REFERENCE
Rothe Erde 232.20.0500.013

SERIES
23 Series

STRUCTURE
Rolamento perfilado

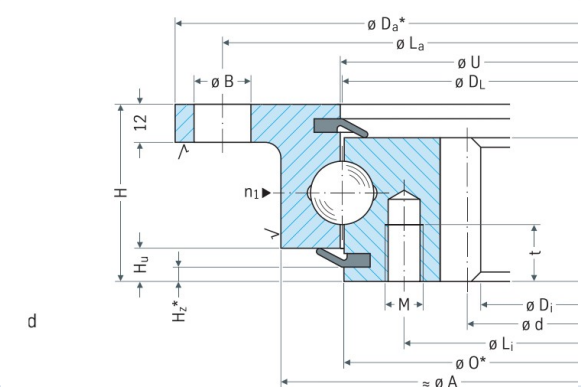
OVERALL OD
648 mm

OVERALL ID
445.2 mm

OVERALL HEIGHT
56 mm

GEAR
Engrenagem interna

Published Technical Drawing



page-046-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	232.20.0500.013
Certified interchangeable with	Rothe Erde 232.20.0500.013
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	RQIM4LKNU4MABG2OR6HRIADFJQ
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	23 Series
Reference model	232.20.0500.013
Bearing structure	Rolamento perfilado
Gear arrangement	Engrenagem interna
DIMENSION	
Raceway diameter (DL)	544 mm
Overall outside diameter (Da)	648 mm
Overall inside diameter (Di)	445,2 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	56 mm
Catalog diameter O (O)	542,5 mm
Catalog diameter U (U)	545,5 mm
Catalog diameter C (C)	583 mm
Lower ring offset Hu (Hu)	10,5 mm
Assembly weight (Weight)	36,9 kg
Axial bearing play (Y_axial)	0,5 mm
Radial bearing play (Y_radial)	0,5 mm
MOUNTING	
Outer ring bolt circle (La)	620 mm
Outer ring mounting-hole count (na)	10
Outer ring mounting-hole diameter (B_outer)	18 mm
Inner ring bolt circle (Li)	505 mm
Inner ring mounting-hole count (ni)	16
Metric bolt nominal size (M)	12 mm
Thread depth (t)	20 mm
GEAR	
Gear pitch diameter (d)	456 mm
Gear module (m)	6 mm
Gear tooth count (z)	76

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GEAR (CONTINUED)	
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)	16 kN
Permitted circumferential force, maximum (X2)	32 kN
MISCELLANEOUS	
Grease nipple count (n1)	4
PERFORMANCE RATINGS	
Catalog Reference X1	16 kN | Not simultaneous with other listed dynamic ratings
Catalog Reference X2	32 kN | Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	10 holes - B_outer 18
Inner ring mounting	16 holes - M 12
GEAR INTERFACE	
Pitch system	module
Module reference	6 mm
Number of teeth	76
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	46

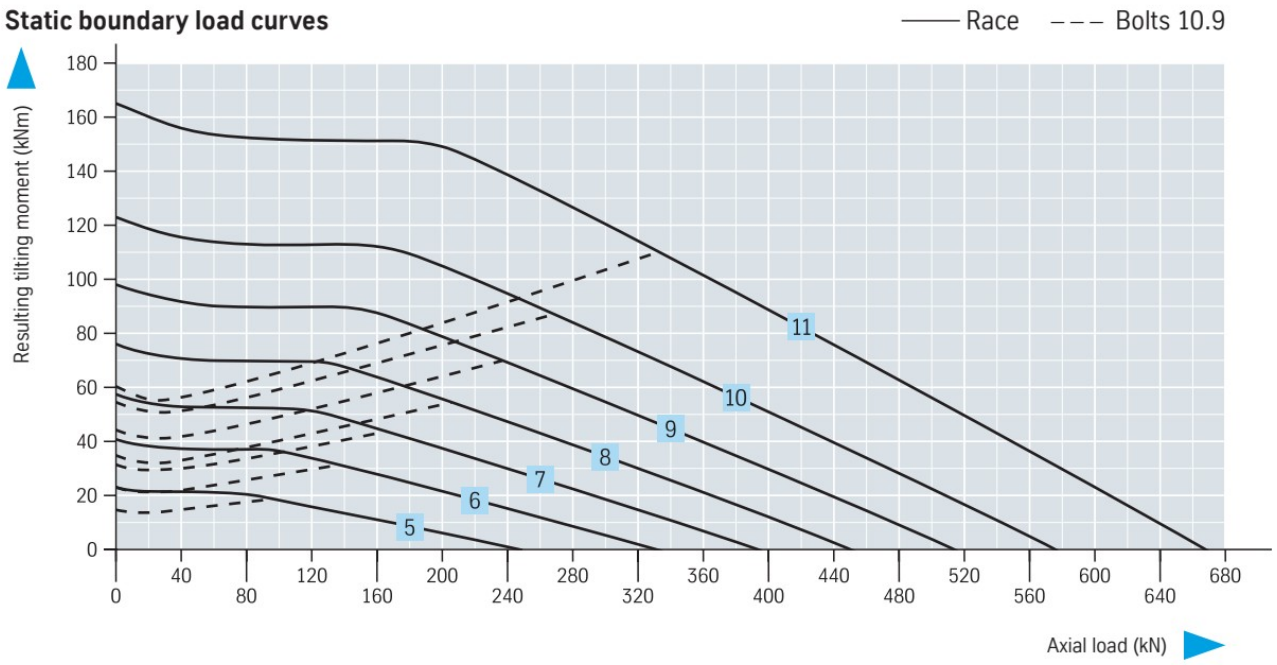
Complete Product Data

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	86-87
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-046-load-curves.png | SHA-256: 3793651545ad9904cd4b41b7c094e2c8f4624f9803f038d6fddd0fc7b04c7890
Outline Drawing	page-046-outline.png | SHA-256: 113550741dc329a6bd5287beb39c80096dd9ddcb8d4d28ebaedf45a3bd999971

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-046-load-curves.png | SHA-256: 3793651545ad9904cd4b41b7c094e2c8f4624f9803f038d6fddd0fc7b04c7890

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

RQIM4LKNU4MABG2OR6HRIADFJQ

SOURCE DOCUMENT

ROTHE_ERDE_CATALOG_2023

SOURCE FILE

Rothe Erde.pdf

SOURCE LOCATION

PDF page 46 | Printed page 86-87

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/pt/produtos/rolamentos-de-giro-de-substituicao/rothe-erde/232-20-0500-013/