

Factory-Verified Replacement

MERYDOM 232.21.0975.013

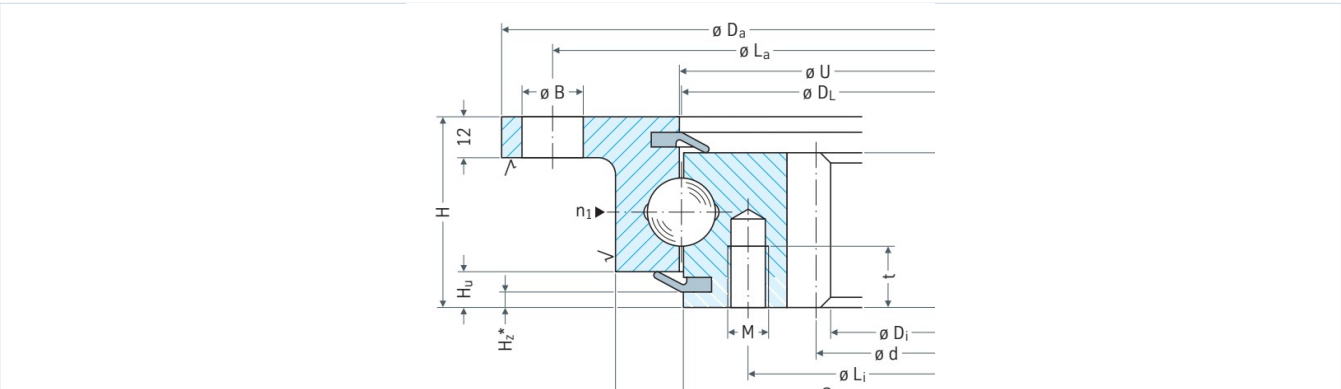
Certified for interchange with Rothe Erde 232.21.0975.013. This document consolidates the public product record, complete published specifications, technical media, source traceability and engineering confirmation notes.

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	REFERENCE
232.21.0975.013	Rothe Erde 232.21.0975.013
SERIES	STRUCTURE
23 Series	Cuscinetto profilato
OVERALL OD	OVERALL ID
1,047 mm	841.6 mm
OVERALL HEIGHT	GEAR
56 mm	Dentatura interna

Published Technical Drawing



page-052-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	232.21.0975.013
Certified interchangeable with	Rothe Erde 232.21.0975.013
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	7N2TW2SHUXNR2S53KED3OLEBJZ
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	232.21.0975.013
Bearing structure	Cuscinetto profilato
Gear arrangement	Dentatura interna
DIMENSION	
Raceway diameter (DL)	944 mm
Overall outside diameter (Da)	1047 - 0,17 mm
Overall inside diameter (Di)	841,6 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	56 mm
Catalog diameter O (O)	941 - 0,14 mm
Catalog diameter U (U)	945,5 mm
Catalog diameter C (C)	983 mm
Lower ring offset Hu (Hu)	10,5 mm
Assembly weight (Weight)	65,8 kg
Combined axial/radial bearing play range (Y_axial_radial)	0 to 0,05 mm
MOUNTING	
Outer ring bolt circle (La)	1.020 mm
Outer ring mounting-hole count (na)	16
Outer ring mounting-hole diameter (B_outer)	18 mm
Inner ring bolt circle (Li)	905 mm
Inner ring mounting-hole count (ni)	22
Metric bolt nominal size (M)	12 mm
Thread depth (t)	20 mm
GEAR	
Gear pitch diameter (d)	856 mm
Gear module (m)	8 mm
Gear tooth count (z)	107
Tip-height modification product k m (k*m)	-0,8 mm

Complete Product Data

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GEAR (CONTINUED)	
Minimum gear face width (bmin)	45,5 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	20,49 kN
Permitted circumferential force, maximum (X2)	40,98 kN
MISCELLANEOUS	
Grease nipple count (n1)	4
PERFORMANCE RATINGS	
Catalog Reference X1	20,49 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	40,98 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	16 holes - B_outer 18
Inner ring mounting	22 holes - M 12
GEAR INTERFACE	
Pitch system	module
Module reference	8 mm
Number of teeth	107
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	52
Printed page	98-99

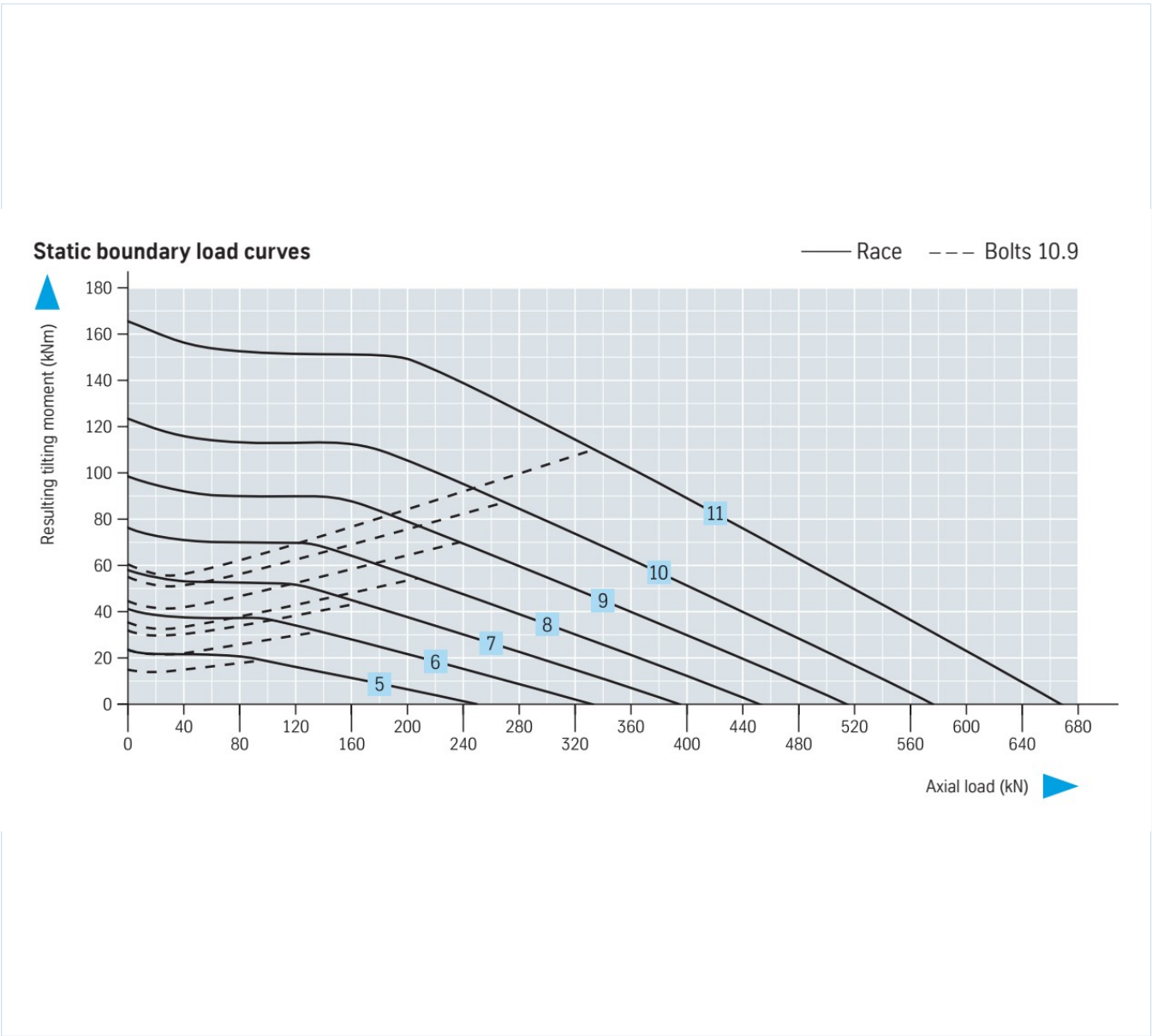
Complete Product Data

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SOURCE TRACEABILITY (CONTINUED)	
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-052-load-curves.png SHA-256: eb58b4fa1ffdfba954e6926fc1e424acd55de66bef209d804178f7dafc2f9a53
Outline Drawing	page-052-outline.png SHA-256: 8d37d392cb10e85bc16e52f54dda541e07b687a8226676f455f64b813d537391

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-052-load-curves.png | SHA-256: eb58b4fa1ffdfba954e6926fc1e424acd55de66bef209d804178f7dafc2f9a53

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**7N2TW2SHUXNR2S53KED3OLEBJZ****SOURCE DOCUMENT****ROTHE_ERDE_CATALOG_2023****SOURCE FILE****Rothe Erde.pdf****SOURCE LOCATION****PDF page 52 | Printed page 98-99****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

Email: jovi@merydom.com | Email: andi@merydom.com | WhatsApp: +86 17705201170Product page: <https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/rothe-erde/232-21-0975-013/>

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