Factory-Verified Replacement

MERYDOM 232.20.0900.503

Certified for interchange with Rothe Erde 232.20.0900.503. 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
232.20.0900.503

REFERENCE
Rothe Erde 232.20.0900.503

SERIES
23 Series

STRUCTURE
Profil rulman

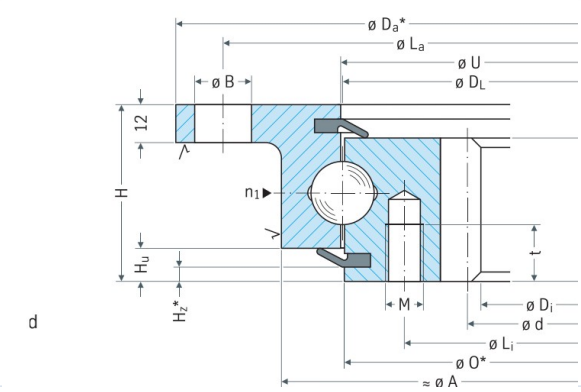
OVERALL OD
1,048 mm

OVERALL ID
841.6 mm

OVERALL HEIGHT
56 mm

GEAR
ten di li

Published Technical Drawing



page-049-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	232.20.0900.503
Certified interchangeable with	Rothe Erde 232.20.0900.503
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	QVO2EWCMXARI66G37G262IOPBS
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	232.20.0900.503
Bearing structure	Profil rulman
Gear arrangement	ten di li
DIMENSION	
Raceway diameter (DL)	944 mm
Overall outside diameter (Da)	1 048 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)	942,5 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)	65,4 kg
Axial bearing play (Y_axial)	0,5 mm
Radial bearing play (Y_radial)	0,5 mm
MOUNTING	
Outer ring bolt circle (La)	1 020 mm
Outer ring mounting-hole count (na)	32
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

Complete Product Data

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GEAR (CONTINUED)	
Tip-height modification product k m (k*m)	-0,8 mm
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	32 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	49

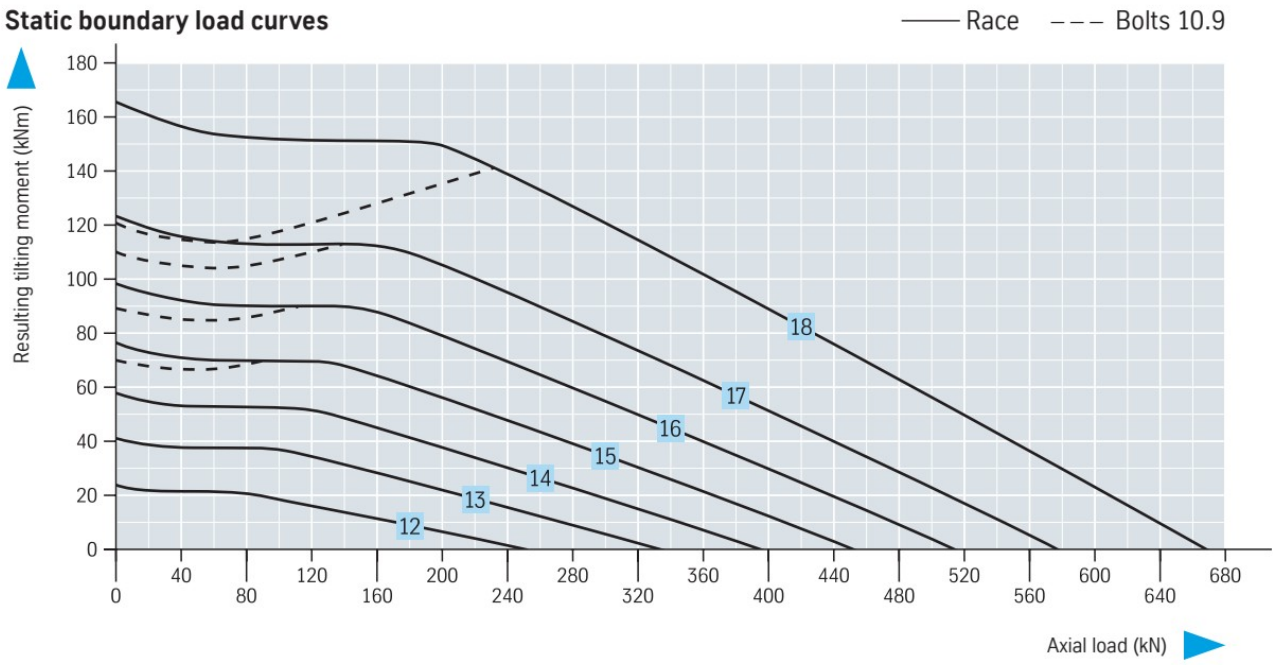
Complete Product Data

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	92-93
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-049-load-curves.png | SHA-256: 7ce59d287fa9aa8d3c54f5ab4a2b17d39e93159962cfac9362dbe7700ce00bc1
Outline Drawing	page-049-outline.png | SHA-256: 7975558b23fb4d9a423cc4ac9892a515161618da0aa87be59e5842ea0eb1defc

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-049-load-curves.png | SHA-256: 7ce59d287fa9aa8d3c54f5ab4a2b17d39e93159962cfac9362dbe7700ce00bc1

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

QVO2EWCMXARI66G37G262IOPBS

SOURCE DOCUMENT

ROTHE_ERDE_CATALOG_2023

SOURCE FILE

Rothe Erde.pdf

SOURCE LOCATION

PDF page 49 | Printed page 92-93

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 17705201170

Product page: https://rotnex.com/tr/urunler/muadil-doner-tabla-rulmanlari/rothe-erde/232-20-0900-503/