

MERYDOM 282.30.1000.013

Reviewed by MERYDOM Engineering Department. Final application approval must confirm loads, duty cycle, mounting rigidity, bolt capacity, lubrication and operating conditions.

REFERENCE

Rothe Erde 282.30.1000.013

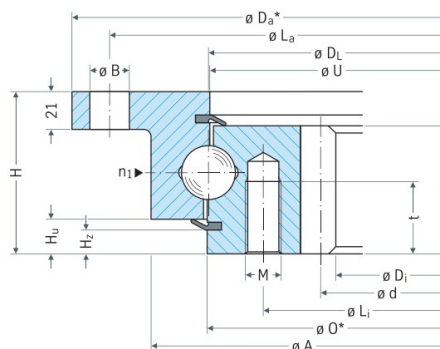
STRUCTURE

Profile bearing

OVERALL ID
912 mm

Internal gear

Published Technical Drawing



page-055-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	282.30.1000.013
Certified interchangeable with	Rothe Erde 282.30.1000.013
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	IBMDPE7BBVJ5NYP6KBEGXUXJCI
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	28 Series
Reference model	282.30.1000.013
Bearing structure	Profile bearing
Gear arrangement	Internal gear
DIMENSION	
Raceway diameter (DL)	1,055 mm
Overall outside diameter (Da)	1,200 mm
Overall inside diameter (Di)	912 mm

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.

DIMENSION (CONTINUED)	
Overall height (H)	90 mm
Catalog diameter O (O)	1,056.5 mm
Catalog diameter U (U)	1,053.5 mm
Catalog diameter C (C)	1,117 mm
Lower ring offset Hu (Hu)	19 mm
Assembly weight (Weight)	176 kg
Axial bearing play (Y_axial)	0.4 mm
Radial bearing play (Y_radial)	0,31 mm
MOUNTING	
Outer ring bolt circle (La)	1,160 mm
Outer ring mounting-hole count (na)	30
Outer ring mounting-hole diameter (B_outer)	22 mm
Inner ring bolt circle (Li)	994 mm
Inner ring mounting-hole count (ni)	30
Metric bolt nominal size (M)	20 mm
Thread depth (t)	40 mm
GEAR	
Gear pitch diameter (d)	930 mm
Gear module (m)	10 mm
Gear tooth count (z)	93

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.

GEAR (CONTINUED)	
Tip-height modification product k m (k*m)	-1 mm
Minimum gear face width (bmin)	71 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	40.06 kN
Permitted circumferential force, maximum (X2)	80.12 kN
MISCELLANEOUS	
Grease nipple count (n1)	6
PERFORMANCE RATINGS	
Catalog Reference X1	40.06 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	80.12 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	30 holes - B_outer 22
Inner ring mounting	30 holes - M 20
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	93
SOURCE TRACEABILITY	
Source document code	ROTHERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	55

Complete Product Data

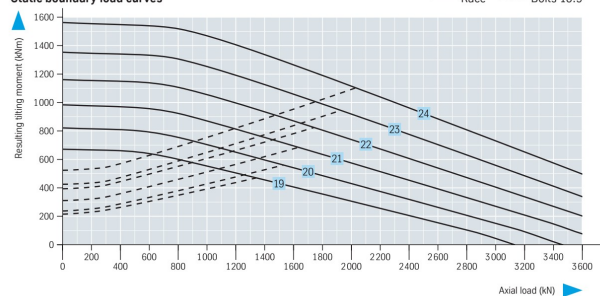
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

SOURCE TRACEABILITY (CONTINUED)	
Printed page	104-105
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-055-load-curves.png SHA-256: 1fcbe73fe39877d170ca331a6a0d7979d0f0a21b8ba875b079c7a34b83b52ada
Outline Drawing	page-055-outline.png SHA-256: 53ead4b1e9907dc8c23d7c3ba400d3db1ea70d3ed646019801cbd28c1da79c64

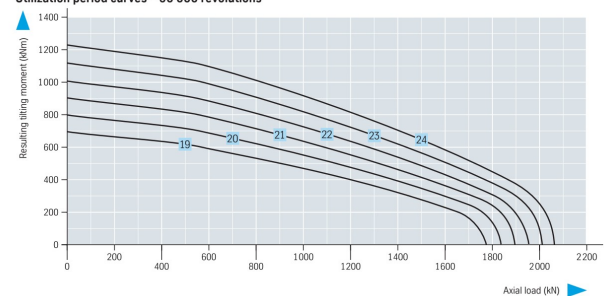
Published Load / Performance Chart

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-055-load-curves.png | SHA-256: 1fcbe73fe39877d170ca331a6a0d7979d0f0a21b8ba875b079c7a34b83b52ada

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 IBMDPE7BBVJ5NYP6KBEGXUXJCI	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 55 Printed page 104-105
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/products/slewing-bearing-replacements/rothe-erde/282-30-1000-013/>

Trademark and legal notice: referenced brand and model names are used only for identification and cross-reference. MERYDOM is an independent manufacturer and is not affiliated with or endorsed by the referenced brand unless expressly stated.