

Factory-Verified Replacement

MERYDOM 282.30.1475.013

Certified for interchange with Rothe Erde 282.30.1475.013. 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

282.30.1475.013

REFERENCE

Rothe Erde 282.30.1475.013

SERIES

28 Series

STRUCTURE

Cuscinetto profilato

OVERALL OD

1,598 mm

OVERALL ID

1,310 mm

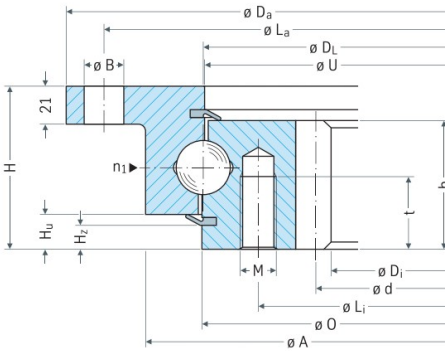
OVERALL HEIGHT

90 mm

GEAR

Dentatura interna

Published Technical Drawing



page-058-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	282.30.1475.013
Certified interchangeable with	Rothe Erde 282.30.1475.013
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	7HBRJEYPG35ETOHID2NNPAZR3Z
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	282.30.1475.013
Bearing structure	Cuscinetto profilato
Gear arrangement	Dentatura interna
DIMENSION	
Raceway diameter (DL)	1.455 mm
Overall outside diameter (Da)	1598 - 0,20 mm
Overall inside diameter (Di)	1.310 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	90 mm
Catalog diameter O (O)	1455 - 0,20 mm
Catalog diameter U (U)	1.453,5 mm
Catalog diameter C (C)	1.517 mm
Lower ring offset Hu (Hu)	19 mm
Assembly weight (Weight)	243 kg
Combined axial/radial bearing play range (Y_axial_radial)	0 to 0,07 mm
MOUNTING	
Outer ring bolt circle (La)	1.560 mm
Outer ring mounting-hole count (na)	48
Outer ring mounting-hole diameter (B_outer)	22 mm
Inner ring bolt circle (Li)	1.394 mm
Inner ring mounting-hole count (ni)	48
Metric bolt nominal size (M)	20 mm
Thread depth (t)	40 mm
GEAR	
Gear pitch diameter (d)	1.330 mm
Gear module (m)	10 mm
Gear tooth count (z)	133
Minimum gear face width (bmin)	71 mm

Complete Product Data

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PERFORMANCE	
Permitted circumferential force, normal (X1)	38,55 kN
Permitted circumferential force, maximum (X2)	77,1 kN
MISCELLANEOUS	
Grease nipple count (n1)	6
PERFORMANCE RATINGS	
Catalog Reference X1	38,55 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	77,1 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	48 holes - B_outer 22
Inner ring mounting	48 holes - M 20
GEAR INTERFACE	
Pitch system	module
Module reference	10 mm
Number of teeth	133
SOURCE TRACEABILITY	
Source document code	ROTHERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	58
Printed page	110-111
Source language	EN
Original unit system	Metric

Complete Product Data

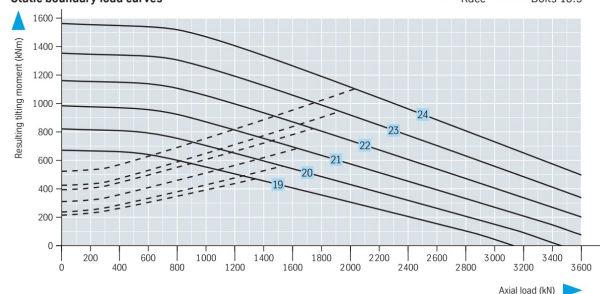
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-058-load-curves.png SHA-256: c76cf6da0e5904dd45c9b3bbe79f943aee05da18391930226c476d42d0ce5b09
Outline Drawing	page-058-outline.png SHA-256: 2f28f83b6b50d5287ed45e5f7777006e3b893bc73d357f3ecd74f253d868f53a

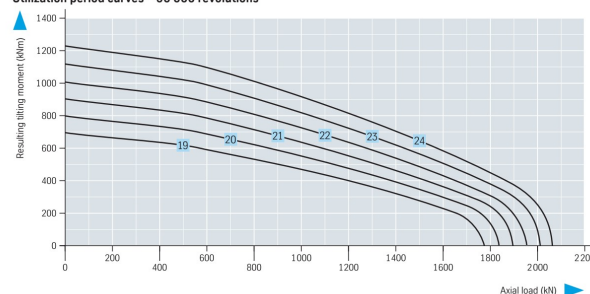
Published Load / Performance Chart

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-058-load-curves.png | SHA-256: c76cf6da0e5904dd45c9b3bbe79f943aee05da18391930226c476d42d0ce5b09

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 7HBRJEYPG35ETOHID2NNPAZR3Z	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 58 Printed page 110-111
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/282-30-1475-013/>

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