

Factory-Verified Replacement

MERYDOM 280.30.1300.013

Certified for interchange with Rothe Erde 280.30.1300.013. 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

280.30.1300.013

REFERENCE

Rothe Erde 280.30.1300.013

SERIES

28 Series

STRUCTURE

Profile bearing

OVERALL OD

1,500 mm

OVERALL ID

1,205 mm

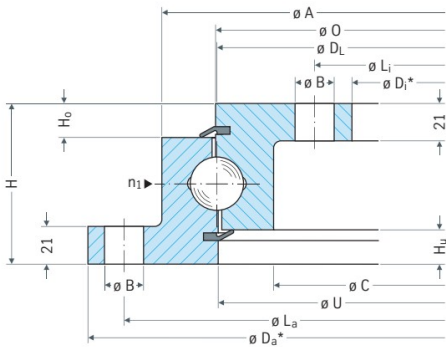
OVERALL HEIGHT

90 mm

GEAR

Ungeared

Published Technical Drawing



page-053-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	280.30.1300.013
Certified interchangeable with	Rothe Erde 280.30.1300.013
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	5VSDP25TU6BEM7QGREQSEQ3OKB
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	280.30.1300.013
Bearing structure	Profile bearing
Gear arrangement	Ungeared
DIMENSION	
Raceway diameter (DL)	1,355 mm
Overall outside diameter (Da)	1,500 mm
Overall inside diameter (Di)	1,205 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)	1,356.5 mm
Catalog diameter U (U)	1,353.5 mm
Catalog diameter A (A)	1,417 mm
Catalog diameter C (C)	1,293 mm
Lower ring offset Hu (Hu)	19 mm
Upper ring offset Ho (Ho)	19 mm
Assembly weight (Weight)	186 kg
Axial bearing play (Y_axial)	0,45 mm
Radial bearing play (Y_radial)	0,37 mm
MOUNTING	
Outer ring bolt circle (La)	1,460 mm
Outer ring mounting-hole count (na)	42
Outer ring mounting-hole diameter (B_outer)	22 mm
Inner ring bolt circle (Li)	1,245 mm
Inner ring mounting-hole count (ni)	42
Inner ring mounting-hole diameter (B_inner)	22 mm
MISCELLANEOUS	
Grease nipple count (n1)	6
MOUNTING INTERFACES	

Complete Product Data

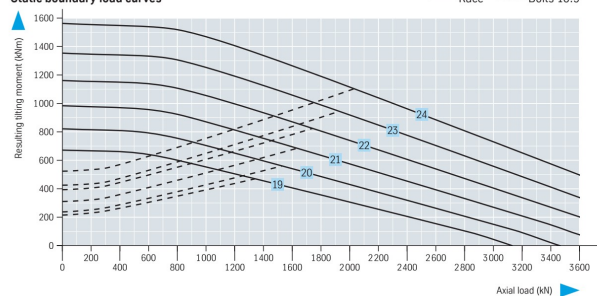
All values below are generated from the current public verified replacement record. Source values are retained and metric references are shown where available.

MOUNTING INTERFACES (CONTINUED)	
Outer ring mounting	42 holes - B_outer 22
Inner ring mounting	42 holes - B_inner 22
GEAR INTERFACE	
Integral gear	Not applicable - ungeared bearing
SOURCE TRACEABILITY	
Source document code	ROTHERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	53
Printed page	100-101
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-053-load-curves.png SHA-256: 60921463ed05b16206b2857033c8a8cb8116adf8dc9d363afbcf2c0dac ddf234
Outline Drawing	page-053-outline.png SHA-256: e7d9146f1cc5eef31a2dac05c9163f8ea89d2a812307f3209ee1b55673 f7c866

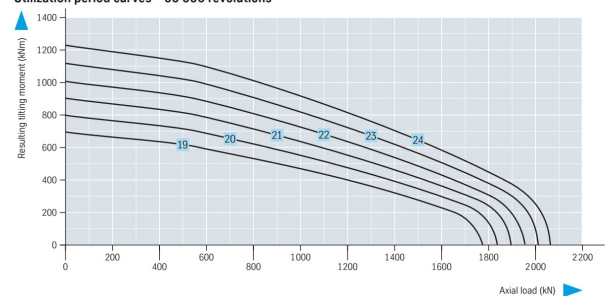
Published Load / Performance Chart

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-053-load-curves.png | SHA-256: 60921463ed05b16206b2857033c8a8cb8116adf8dc9d363afbcf2c0dacddf234

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 5VSDP25TU6BEM7QGREQSEQ3OKB	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 53 Printed page 100-101
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/products/slewing-bearing-replacements/rothe-erde/280-30-1300-013/>

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