

MERYDOM 061.40.1600.008.19.1503

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

MERYDOM MODEL

061.40.1600.008.19.1503

REFERENCE

Rothe Erde 061.40.1600.008.19.1503

SERIES

06 Series

STRUCTURE

Single-row four-point contact ball

OVERALL OD

1,803.2 mm

OVERALL ID

1,466 mm

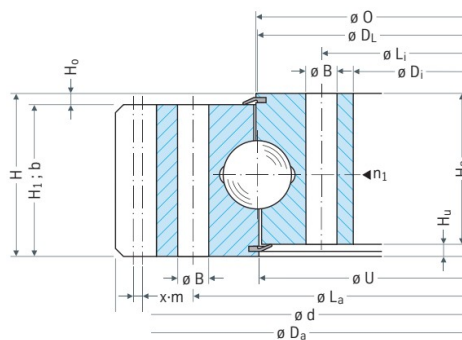
OVERALL HEIGHT

94 mm

GEAR

External gear

Published Technical Drawing



page-077-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	061.40.1600.008.19.1503
Certified interchangeable with	Rothe Erde 061.40.1600.008.19.1503
Verification status	Level 3 - MERYDOM Engineering Verified
Reviewed by	MERYDOM Engineering Department
Public record UID	4IG7X654FN YMJYRYZJI2Q7FZU
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	06 Series
Reference model	061.40.1600.008.19.1503
Bearing structure	Single-row four-point contact ball
Gear arrangement	External gear
DIMENSION	
Raceway diameter (DL)	1,600 mm
Overall outside diameter (Da)	1,803.2 mm
Overall inside diameter (Di)	1,466 mm

Complete Product Data

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DIMENSION (CONTINUED)	
Overall height (H)	94 mm
Catalog diameter O (O)	1,601 mm
Catalog diameter U (U)	1,598 mm
Ring height H1 (H1)	85 mm
Ring height H2 (H2)	81 mm
Lower ring offset Hu (Hu)	13 mm
Upper ring offset Ho (Ho)	9 mm
Assembly weight (Weight)	479 kg
MOUNTING	
Outer ring bolt circle (La)	1,682 mm
Inner ring bolt circle (Li)	1,518 mm
Common mounting-hole count (n)	40
Common mounting-hole diameter (B)	26 mm
Metric bolt nominal size (M)	24 mm
GEAR	
Gear pitch diameter (d)	1,764 mm
Gear module (m)	14 mm
Gear tooth count (z)	126
Profile shift product x m (x*m)	7 mm
Tip-height modification product k m (k*m)	-1.4 mm

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GEAR (CONTINUED)	
Minimum gear face width (bmin)	84 mm
PERFORMANCE	
Permitted circumferential force, normal (X1)	73.86 kN
Permitted circumferential force, maximum (X2)	147.71 kN
MISCELLANEOUS	
Grease nipple count (n1)	8
PERFORMANCE RATINGS	
Catalog Reference X1	73.86 kN Not simultaneous with other listed dynamic ratings
Catalog Reference X2	147.71 kN Not simultaneous with other listed dynamic ratings
MOUNTING INTERFACES	
Outer ring mounting	40 holes - M 24
Inner ring mounting	40 holes - B 26
GEAR INTERFACE	
Pitch system	module
Module reference	14 mm
Number of teeth	126
SOURCE TRACEABILITY	
Source document code	ROTHE_ERDE_CATALOG_2023
Source file	Rothe Erde.pdf
PDF page	77
Printed page	148-149

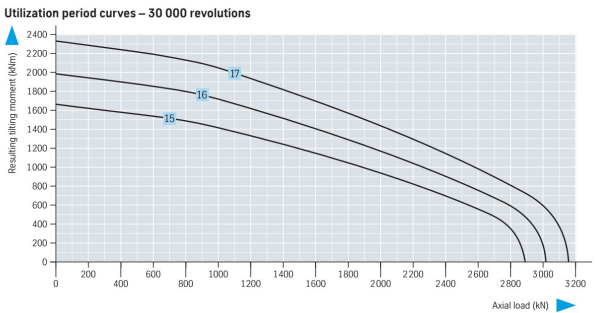
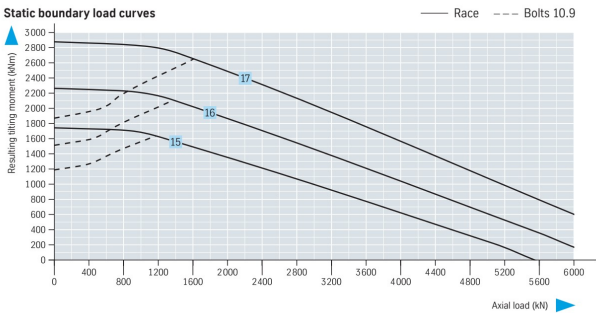
Complete Product Data

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SOURCE TRACEABILITY (CONTINUED)	
Source language	EN
Original unit system	Metric
PUBLISHED TECHNICAL MEDIA	
Load Curve Chart	page-077-load-curves.png SHA-256: 178a33985a2da4fa72b12ad223fcfb8d541ce861c7eb0dfccf6bdc65729201c
Outline Drawing	page-077-outline.png SHA-256: b0f781850d2bd40b880c1f0862ab92c39ef72ba9c414eec87c10b6cb876b4512

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.



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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 4IG7X654FNYMJYRYYZJI2Q7FZU	SOURCE DOCUMENT ROTHE_ERDE_CATALOG_2023
SOURCE FILE Rothe Erde.pdf	SOURCE LOCATION PDF page 77 Printed page 148-149
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/061-40-1600-008-19-1503/>

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