

**MERYDOM 230.21.0875.013**

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

REFERENCE

**Rothe Erde 230.21.0875.013**

## STRUCTURE

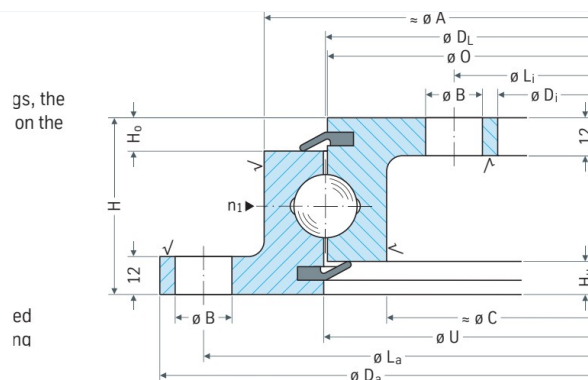
### Cuscinetto profilato

OVERALL ID  
**735 mm**

GEAR

**Senza dentatura**

## Published Technical Drawing



page-050-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                        | 230.21.0875.013                        |
| Certified interchangeable with       | Rothe Erde 230.21.0875.013             |
| Verification status                  | Level 3 - MERYDOM Engineering Verified |
| Reviewed by                          | MERYDOM Engineering Department         |
| Public record UID                    | 2YOEIVRSBETNUHNOKAYGZANMUS             |
| 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                      | 230.21.0875.013                        |
| Bearing structure                    | Cuscinetto profilato                   |
| Gear arrangement                     | Senza dentatura                        |
| DIMENSION                            |                                        |
| Raceway diameter (DL)                | 844 mm                                 |
| Overall outside diameter (Da)        | 947 - 0,14 mm                          |
| Overall inside diameter (Di)         | 735 + 0,13 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)                                        | 56 mm                 |
| Catalog diameter O (O)                                    | 842,5 mm              |
| Catalog diameter U (U)                                    | 845,5 mm              |
| Catalog diameter A (A)                                    | 883 mm                |
| Catalog diameter C (C)                                    | 805 mm                |
| Lower ring offset Hu (Hu)                                 | 10,5 mm               |
| Upper ring offset Ho (Ho)                                 | 10,5 mm               |
| Assembly weight (Weight)                                  | 47,8 kg               |
| Combined axial/radial bearing play range (Y_axial_radial) | 0 to 0,05 mm          |
| MOUNTING                                                  |                       |
| Outer ring bolt circle (La)                               | 920 mm                |
| Outer ring mounting-hole count (na)                       | 14                    |
| Outer ring mounting-hole diameter (B_outer)               | 18 mm                 |
| Inner ring bolt circle (Li)                               | 762 mm                |
| Inner ring mounting-hole count (ni)                       | 18                    |
| Inner ring mounting-hole diameter (B_inner)               | 18 mm                 |
| MISCELLANEOUS                                             |                       |
| Grease nipple count (n1)                                  | 4                     |
| MOUNTING INTERFACES                                       |                       |
| Outer ring mounting                                       | 14 holes - B_outer 18 |

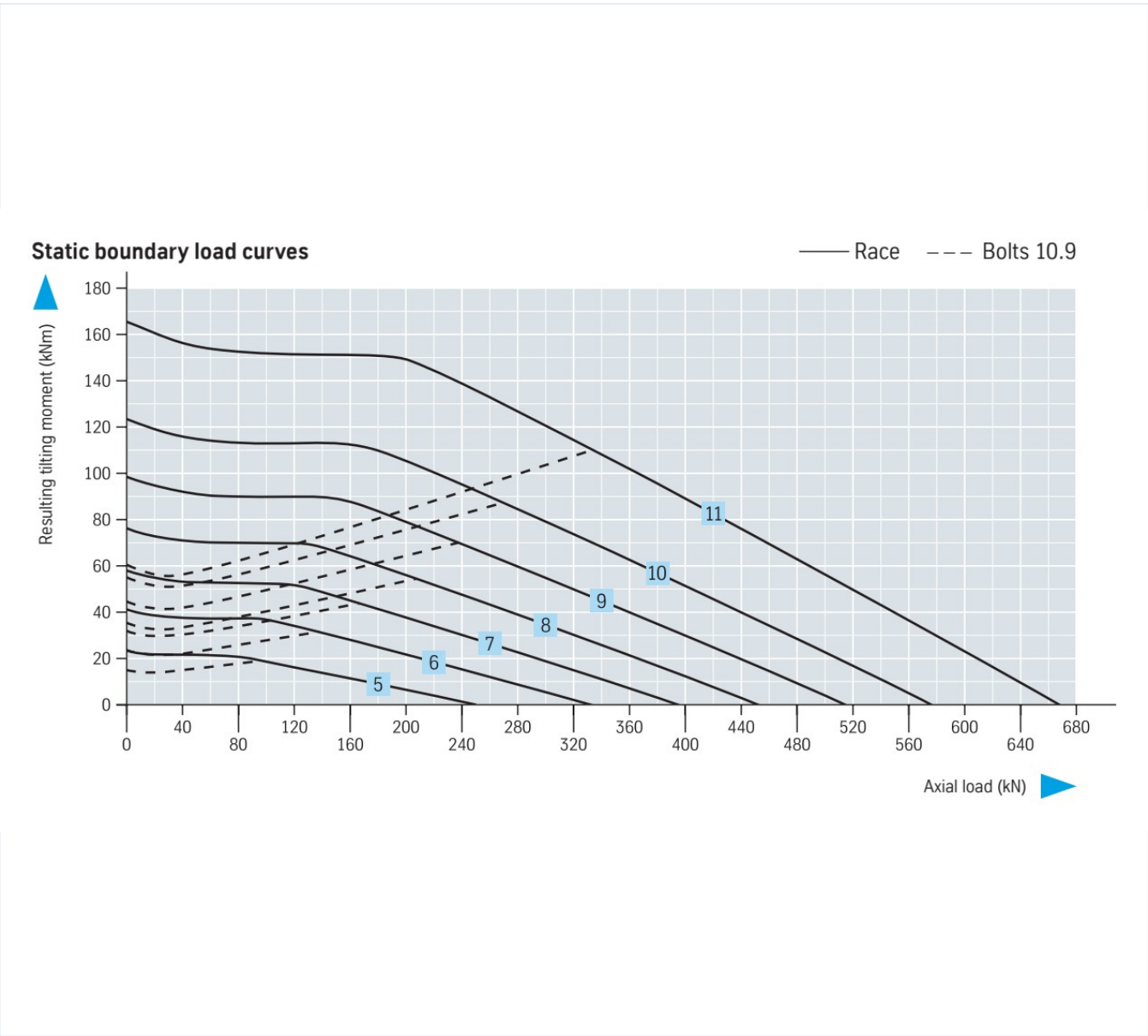
Complete Product Data

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) |                                                                                                         |
|---------------------------------|---------------------------------------------------------------------------------------------------------|
| Inner ring mounting             | 18 holes - B_inner 18                                                                                   |
| GEAR INTERFACE                  |                                                                                                         |
| Integral gear                   | Not applicable - ungeared bearing                                                                       |
| SOURCE TRACEABILITY             |                                                                                                         |
| Source document code            | ROTHE_ERDE_CATALOG_2023                                                                                 |
| Source file                     | Rothe Erde.pdf                                                                                          |
| PDF page                        | 50                                                                                                      |
| Printed page                    | 94-95                                                                                                   |
| Source language                 | EN                                                                                                      |
| Original unit system            | Metric                                                                                                  |
| PUBLISHED TECHNICAL MEDIA       |                                                                                                         |
| Load Curve Chart                | page-050-load-curves.png   SHA-256:<br>7237a9b4ab13d8013bcb7723d750e6b73aeb0a74e0fa6f6740a900fcb456b114 |
| Outline Drawing                 | page-050-outline.png   SHA-256:<br>e53bbd2e0c76cfee43d66c13fe2f04c6cd782eba1bbf16821aeb90c8162c71a8     |

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-050-load-curves.png | SHA-256: 7237a9b4ab13d8013bcb7723d750e6b73aeb0a74e0fa6f6740a900fcb456b114

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

2YOEIVRSBETNUHNOKAYGZANMUS

### SOURCE DOCUMENT

ROTHE\_ERDE\_CATALOG\_2023

### SOURCE FILE

Rothe Erde.pdf

### SOURCE LOCATION

PDF page 50 | Printed page 94-95

### 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](mailto:jovi@merydom.com) | Email: [andi@merydom.com](mailto:andi@merydom.com) | WhatsApp: +86 17705201170

Product page: <https://rotnex.com/it/prodotti/cuscinetti-di-rotazione-sostitutivi/rothe-erde/230-21-0875-013/>

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.