

# SLIP RINGS ROTARY UNIONS COMBINED SYSTEMS

for hydraulic and electric blade pitch control

Setting ideas in motion.

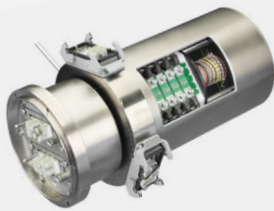


**GAT**<sup>®</sup>  
Gesellschaft für  
Antriebstechnik mbH

# SLIP RINGS



ROTOFLUX ESR 110



ROTOFLUX ESR 200

## Reliable and profitable

Our slip rings of the ROTOFLUX series with proven gold/gold technology provide an excellent transmission of power, signals and data. Compared to commonly used carbon brushes, wear is reduced to near zero.

## Safe high speed data transmission

The contactless capacitive transmission technology of the ROTOCAP series currently provides the most reliable data transmission for 100 Mbit/s. With our fiber optical rotary union ROTORAY we can offer transmission rates up to 30 Gbit/s.

## High system availability

Using different types of transfer technology means diverse redundancy and hence ultimate reliability. A targeted and sustainable solution to increase your plant availability.

# ROTARY UNIONS



ROTOSTAT M100 EX2



ROTOSTAT M60 EX2

## Extremely long service life

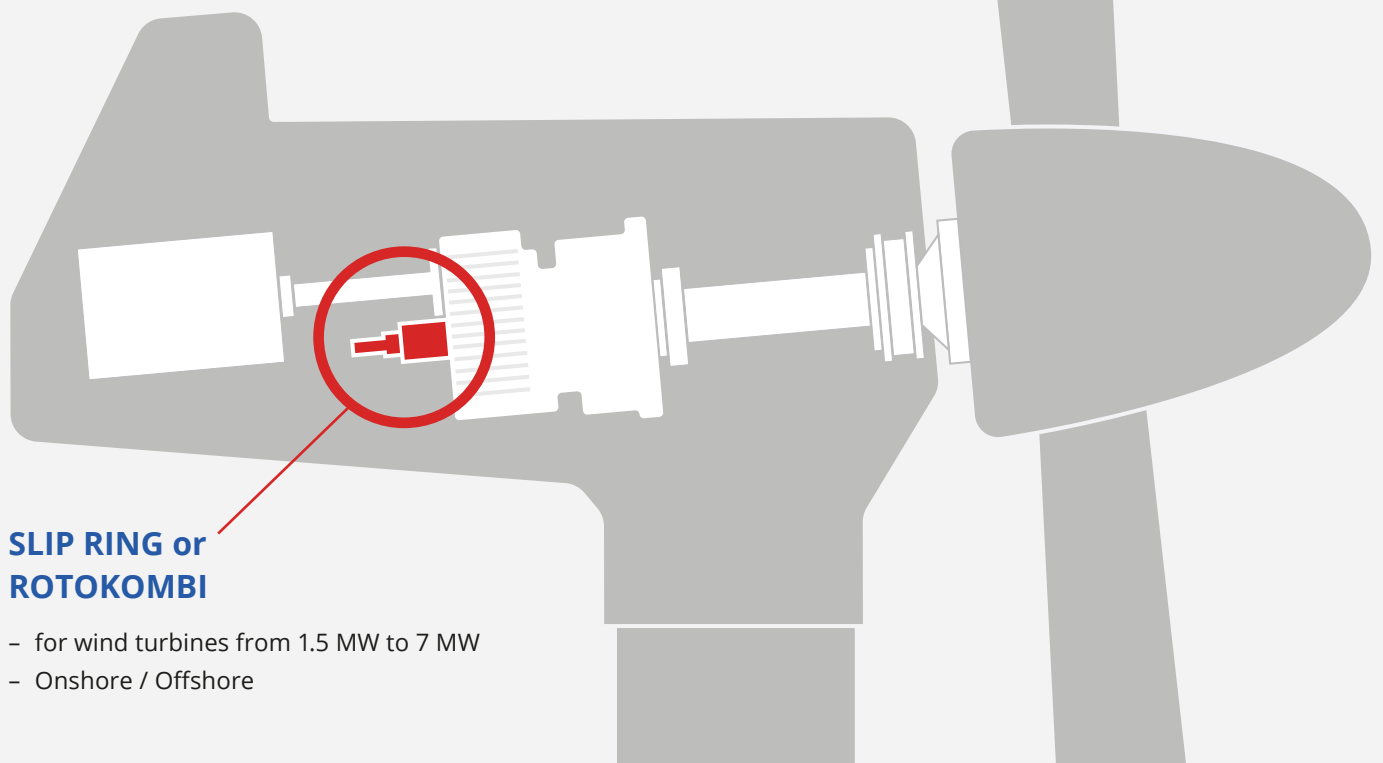
The tried-and-tested ROTOSTAT E sealing system uses a hydrostatically controlled radial gap seal, ensuring reliable operation even under the most demanding operating conditions.

## Maintenance-free

The contactless sealing system has very low friction, reducing wear to the minimum. Cost savings are considerable.

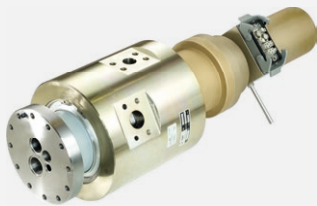
## Reliable operation without minimum pressure

The ROTOSTAT E system is designed for IDLE mode despite minimal leakage.



## SLIP RING or ROKOMB

- for wind turbines from 1.5 MW to 7 MW
- Onshore / Offshore



**ROKOMB**  
Rotary Union + Slip Ring



**ROKOMB**  
Slip Ring + Optical Rotary Union



**ROKOMB**  
Rotary Union + Slip Ring

# COMBINED SYSTEMS

## Customer-specific complete system from a single source

The ROKOMB system allows all rotary union and slip ring types to be combined. The result is a complete rotary transmission system from a single source, with perfectly matched interfaces.

## Optimally matched with flexible extension options

ROKOMB systems ensure that an optimally adapted sealing system is available for any medium. For any type of electrical transmission a corresponding system is selected to ensure adequate reliability. Thanks to the modular design, individual components can be replaced, retrofitted or upgraded as necessary.

# CUSTOMIZED SOLUTIONS

## Designed to suit your applications

### Accessories

- Customer-specific piping packages
- Cable connection sets
- Application-specific connectors
- Coupling variants
- Angular transmitter with coupling
- Integrated heating systems

### Optional

- Optical data transmission technology
- Contactless capacitive data transmission technology

### Service

- Engineering and consulting
- Upgrades of existing systems
- After-Sales-Service



Capacitive data transmission



Optical data transmission



## Do you have any questions?

Please contact our team of qualified engineers and product specialists. We are looking forward to developing solutions together with you that will meet all current and future requirements.



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