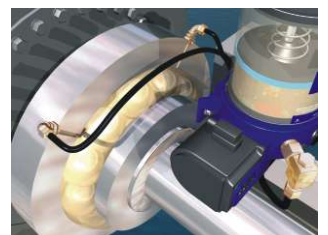
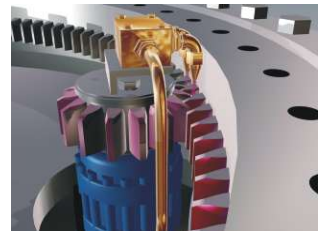
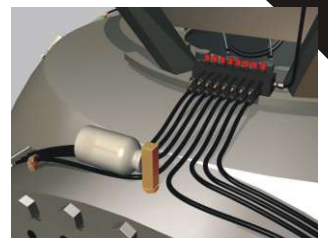


CENTRAL LUBRICATION SYSTEMS FOR WIND CONVERTERS

- The ideal lubrication system for each application
- Innovative technology for efficient wear reduction
- Tried-and-tested components for highest operational reliability
- Also with electronic monitoring

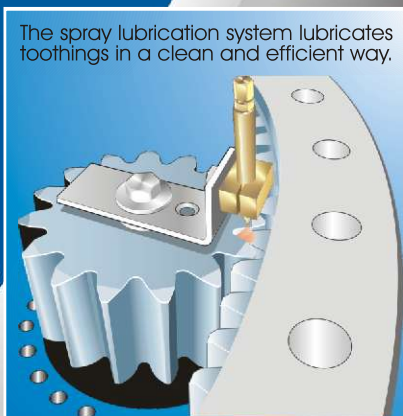
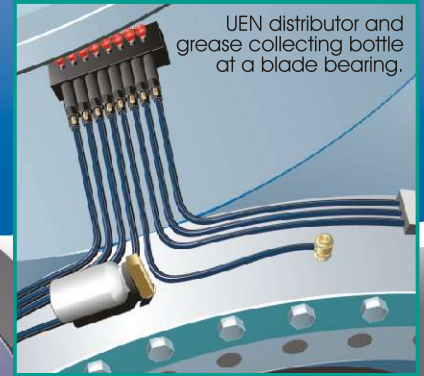
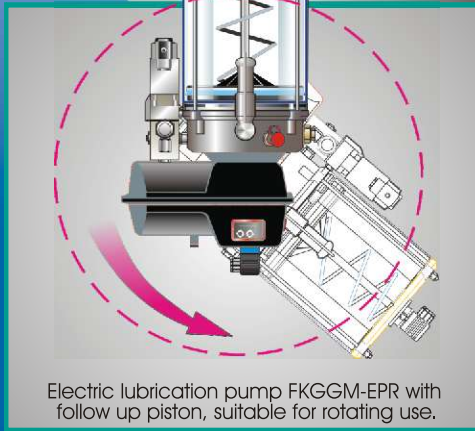


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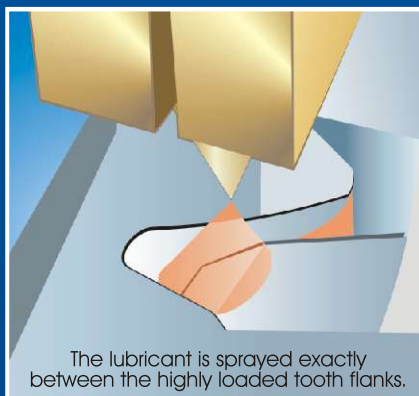
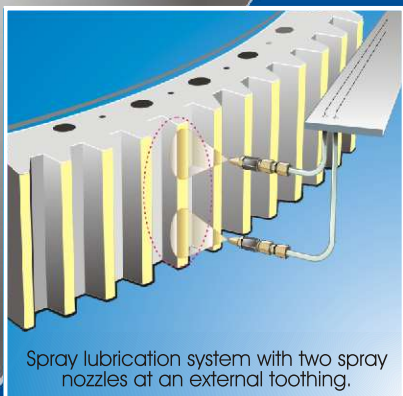
BEKAWIND SINGLE

The single line system



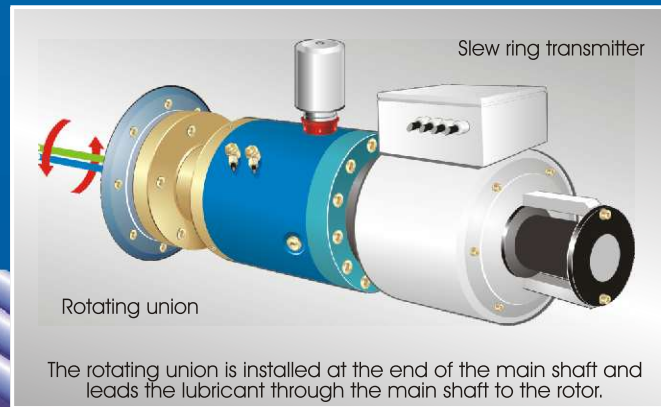
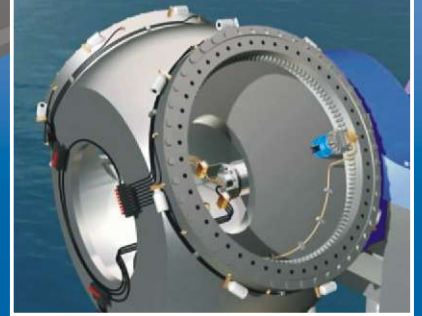
BEKAWIND FLOW

Spray lubrication system



BEKAWIND COMBI The combined system

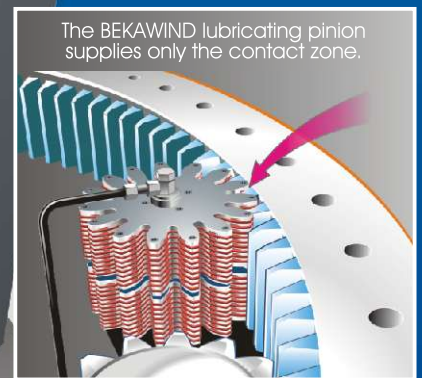
In the rotor hub, lubricant is forwarded to blade bearings and blade drives.



Rotating union

The rotating union is installed at the end of the main shaft and leads the lubricant through the main shaft to the rotor.

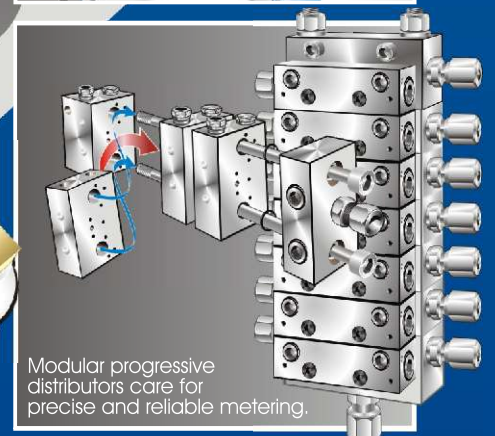
The whole lubricant supply is located in the nacelle.



The BEKAWIND lubricating pinion supplies only the contact zone.



The worn out lubricant is collected in grease collecting bottles.



Modular progressive distributors care for precise and reliable metering.

BEKAWIND PRO The progressive system

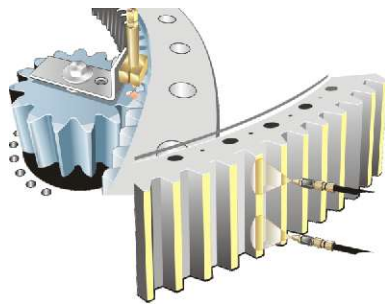
BEKAWIND SINGLE



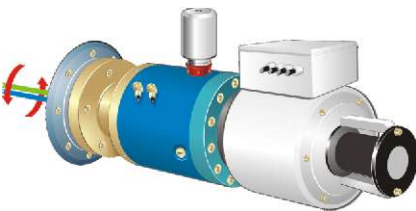
BEKAWIND PRO



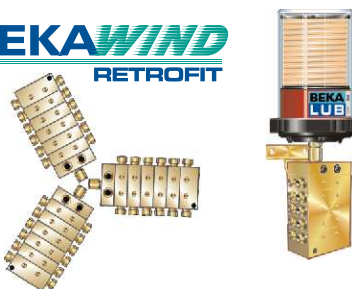
BEKAWIND FLOW



BEKAWIND COMBI



BEKAWIND RETROFIT



The single line system

- The solution for multi megawatt wind converters
- Ideal for offshore application
- High operational reliability at low ambient temperatures
- For all types of grease up to NLGI 2

The progressive system

- The flexible lubrication system with monitoring
- For oil and grease up to NLGI 2
- Modular design for easy service
- High functional reliability with blocking control

The solution with lubrication pinion

- The lubrication system for all kinds of toothings
- Lubrication only during intermeshing
- Suitable for lubricants with solids

The spray lubrication system

- Highly efficient contact-free technology
- Supply even during standstill of the tothing to avoid tribo corrosion
- Very low lubricant consumption
- No more pollution by overlubrication - no need for cleaning

The combined system

- Installation of all lubrication pumps in the nacelle
- Easy maintenance and refilling
- Easy retrofitting of elder converters
- Applicable for all BEKAWIND lubrication systems

Retrofitting solutions

- Tailor-made retrofitting solutions for wind converters
- From single nipple lubrication up to complete system
- Easy retrofitting of elder wind converters

Wind converters are subject to high mechanical loads. They have to work with absolute reliability. Break down due to lack of lubrication is an avoidable failure.

A central lubrication system continuously supplies fresh lubricant to the connected lube points. The right quantity at the right time.

That's why a reliable lubricant supply of a wind converter can only be realized with automatic lubrication systems.

CENTRAL LUBRICATION SYSTEMS FOR WIND CONVERTERS

The design of BEKAWIND central lubrication systems is adapted individually to each wind converter and its operating conditions. All important components like bearings, toothings and adjustment devices are supplied with precisely metered quantities of lubricant at the right time.

Depending on the application, different BEKAWIND systems are employed:

BEKAWIND SINGLE
the tried-and-tested single line system.

BEKAWIND
SINGLE

BEKAWIND PRO
the flexible progressive system.

BEKAWIND
PRO

BEKAWIND FLOW
the innovative spray lubrication system.

BEKAWIND
FLOW

BEKAWIND COMBI
complete supply from the nacelle.

BEKAWIND
COMBI

BEKAWIND RETRO
the retrofitting program.

BEKAWIND
RETROFIT

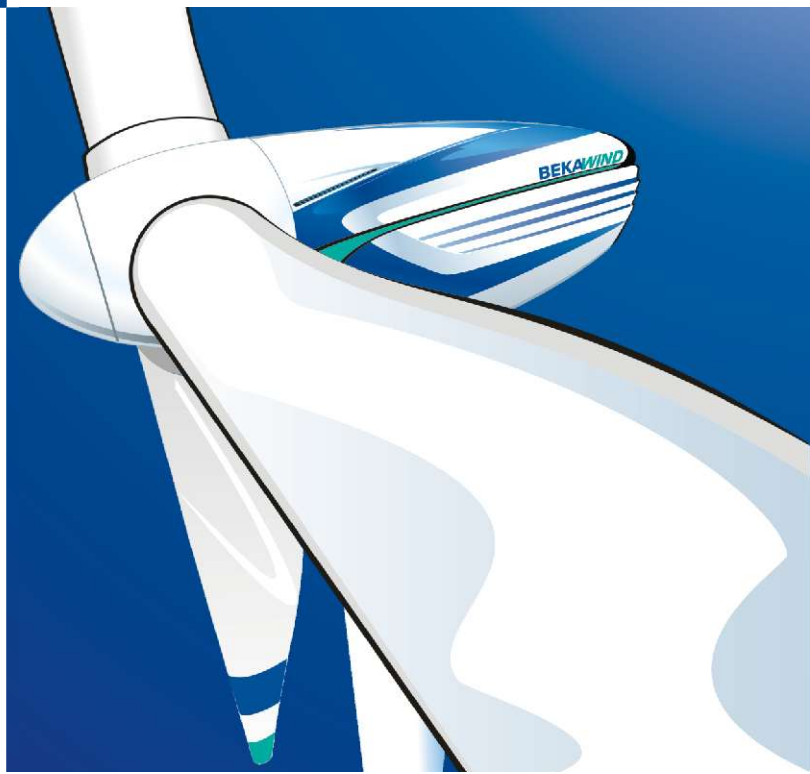


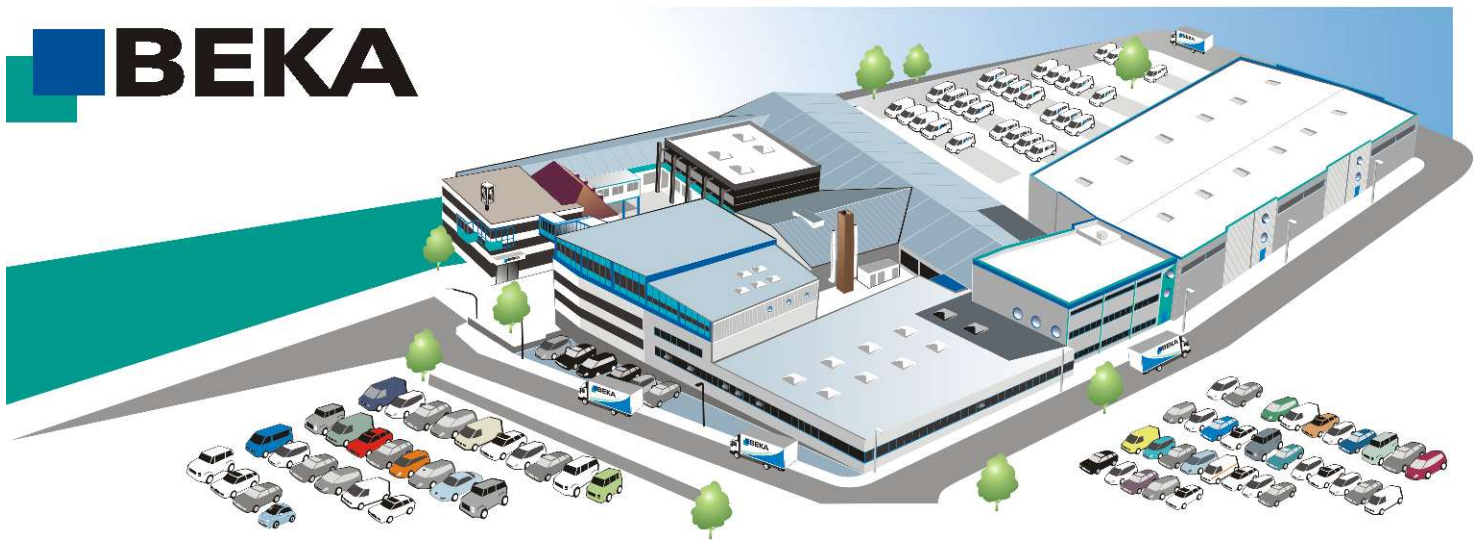
Design and layout of the central lubrication system are decisive for economic efficiency, service life and operational reliability of the whole wind converter.

The BEKAWIND specialists will be pleased to support you all around central lubrication!

BEKAWIND

Tailor-made central lubrication systems for wind converters.





BAIER + KÖPPEL GMBH + CO KG
PRÄZISIONSAPPARATEFABRIK

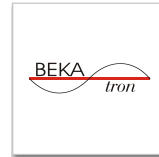
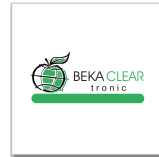
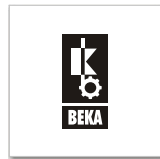
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