Wind power is set to play a vital role in the future. Do you want to specifically benefit from this natural power? HAWE Hydraulik supports you with efficient, durable and state-of-the-art hydraulic solutions for all on- and off-shore constructions of the wind power turbines.
Wind isn’t the only weather a wind turbine must withstand. Adverse environmental factors include:

- extreme temperature fluctuations
- salt air in off-shore operations
- high levels of humidity
- compliance with GL (Germanischer Lloyd) safety standards

A self-contained hydraulic system that is easily integrated into the complete assembly ensures the wind turbine will run smoothly under all circumstances and in compliance with all safety standards.

Be prepared for all conditions with solutions from HAWE Hydraulik. Our products are made of steel; they are designed and built to the highest quality standards for performance and durability. They can be combined in different ways and are simple to maintain thanks to the intelligent modular design.

The hydraulic control consists of different modules, with each covering a different function. As a result, should one element need repairs or modification, it can be removed simply by undoing four screws.

We offer active and passive hydraulic control systems for both yaw and rotor brakes, as well as modules for:

- pitch control
- service brake
- rotor interlock
- nacelle roof movement
- service crane controls

Extensive experience in wind power and an absolute commitment to the principles of sustainable business practice make HAWE Hydraulik your perfect partner. The sophistication and durability of our products will improve the reliability of your wind power installations, extend their life cycle and increase return on investment.
Everything revolves around cost-effectiveness and quality.

HAWE Hydraulik offers reliable, durable products with a state-of-the-art design. The sophisticated modular system enables you to combine the elements you need in the most cost-effective way. A selection from our product range:

**Compact brake module for azimuth brakes:**

For safety reasons, it is obviously essential that a wind turbine is fitted with brakes that are absolutely reliable. That’s why HAWE Hydraulik uses zero-leak directional seated valves in its brake module type NBMC. Compared to directional spool valves, they provide greater switching reliability and meet GL safety standards.

- Operating pressure ($p_{\text{max}}$): 250 bar
- Flow rate ($Q_{\text{max}}$): 20 lpm

**Efficient oil supply of the hydraulic control:**

The hydraulic power pack type KA is used to supply hydraulic controls in wind turbines with pressurized oil. It can be installed both horizontally and vertically and takes up a minimum amount of space due to its compact design. Electrical components are connected directly via a terminal box. Optionally it is available as Cold Climate Version (CCV) with heating and silica gel filter.

- Operating pressure ($p_{\text{max}}$): 700 bar
- Flow rate ($Q_{\text{max}}$): 10 lpm

**Hydraulic control in modular design:**

The hydraulic functions such as rotor brake, azimuth brake, rotor blocking, etc. are displayed in separate modules which are mounted directly on the power pack. To cater for different oil volume requirements, the length of the tank can be extended. The two-litre standard tank can be expanded to hold up to a maximum of ten liters if required.

- Operating pressure ($p_{\text{max}}$): 700 bar
- Flow rate ($Q_{\text{max}}$): 10 lpm

**Customized power packs for each flow rate:**

Customized solutions for applications with higher oil flow rates such as hydraulic pitch control, supplied ready for plug-and-play installation. Reliable components and a modular design give you the flexibility to combine the elements you need without sacrificing straightforward maintenance.

- Operating pressure ($p_{\text{max}}$): 700 bar
- Flow rate ($Q_{\text{max}}$): 25 lpm
With three sales offices in the U.S., subsidiaries and expert partner companies throughout North America, HAWE Hydraulik is bound to have a presence in your area.

HAWE Hydraulik offers the following benefits:

- Comprehensive individual advice and assistance
- Customized solutions
- Products designed and manufactured using state-of-the-art technology
- Many years of experience and expertise in hydraulic products and their uses
- Tailored service and maintenance contracts
- Layout, set-up, and maintenance/service on-site

If you have any questions, please get in touch. Our experts are always happy to help.

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