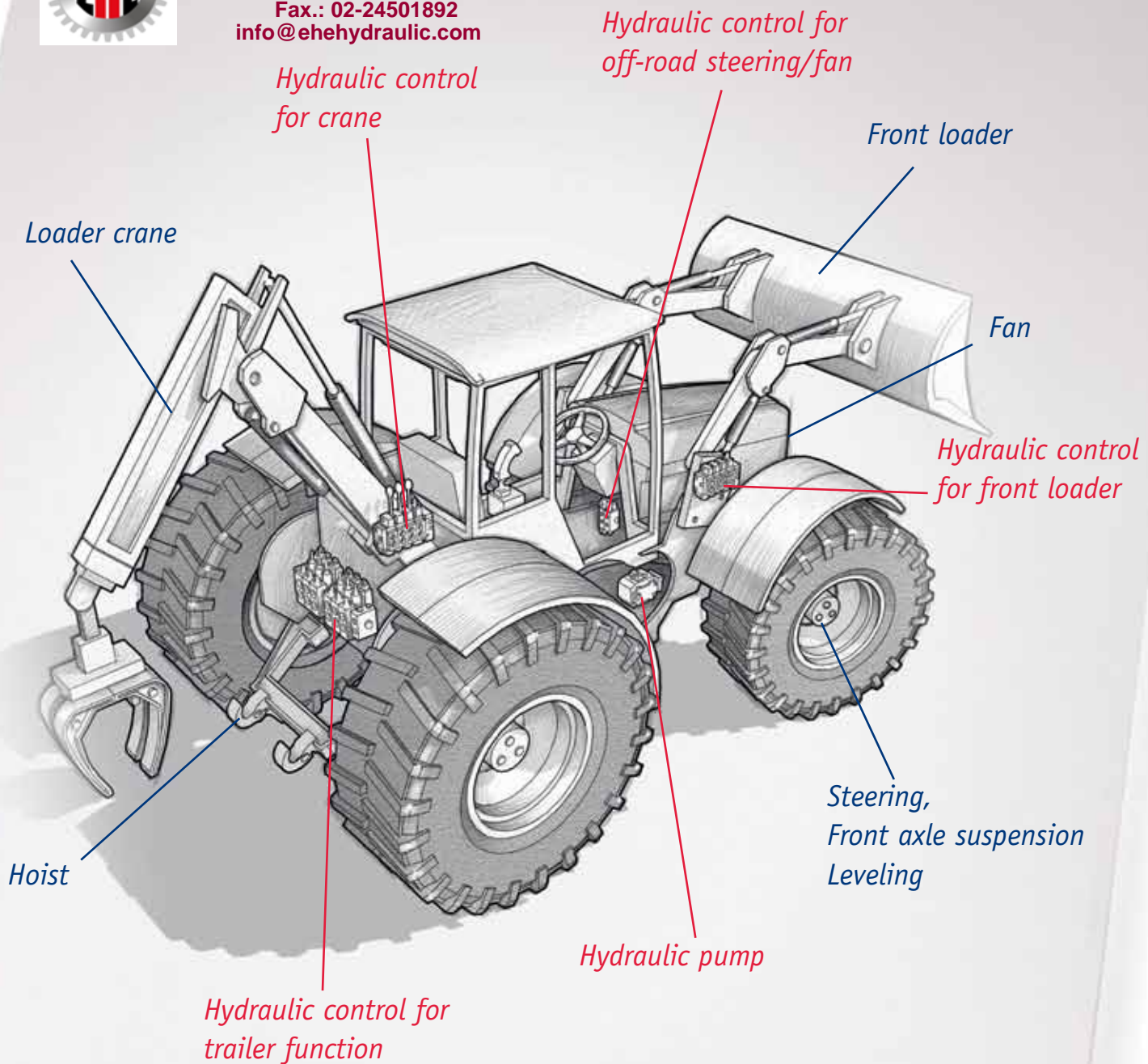




Please Contact us:  
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## Total reliability in forests and across fields.

General-purpose machinery requires flexible, yet simple controls. At the same time, the systems must be easy to adapt to new jobs, and offer total reliability whatever the environment.

Solutions for a World under Pressure **HAWES**  
HYDRAULIK

## HAWE Hydraulik: everyday flexibility.

### A tractor's work is never done.



Picture: Pfanzelt Maschinenbau

### HAWE Hydraulik: total flexibility.

We offer hydraulic controls out of a modular design system that deliver outstanding reliability, plus the flexibility to adapt to new tasks. Different component sizes and functions can be combined, and additional functions such as load holding, pressure limitation and actuator prioritization can easily be integrated. Your advantage – all operations can easily be carried out via lever, joystick or remote control.

### The power of teamwork.

HAWE Hydraulik is the perfect partner for agricultural and forestry machinery. We offer fully integrated solutions at every stage from designs and manufacture through to the start of operations, drawing on over 60 years' experience. As such, you can enjoy high efficiency combined with excellent flexibility.

Whether it's a tractor in the field, a forwarder in the forest, a compact loader in the farmyard or a road snowplough on the highway, machinery must combine maximum performance and reliability with minimum energy consumption and weight. Of course, any machine that works outdoors must also be able to handle anything the elements can throw at it. And finally, it must be easy and intuitive to use...

- on rough ground
- all year round
- in extremes of humidity and dryness.

This same technology is also ideal for controlling:

- Different attachments (shovel, snowplough, etc.)
- Trailers and self-loading wagons
- Crane arms
- Stabilizers and front/rear blades



Picture: Fendt



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## Choose the perfect combination for your tractor.

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



### One directional valve type for all functions:

Requiring little space and minimal effort to install, the proportional directional spool valve type PSL is a state-of-the-art and economical control solution that can be used to combine up to 10 functions.

- Operating pressure ( $p_{max}$ ): 420 bar
- Flow rate ( $Q_{max}$ ): 240 lpm



### Smart communications between components:

The PSL's on-board CAN technology minimizes the amount of wiring required and makes it easier to design smart systems. As you would expect, it supports all common communication protocols.

- Operating pressure ( $p_{max}$ ): 420 bar
- Flow rate ( $Q_{max}$ ): 200 lpm



### Spool valve and seated valve technology combined:

Flexible combination of proportional or on/off directional valve sections together with zero-leakage seated valve sections in one valve bank. The right valve type for each function is selected from the modular design system and easily flange-mounted.

- Operating pressure ( $p_{max}$ ): 250 bar
- Flow rate ( $Q_{max}$ ): 120 resp. 20 lpm



### Efficient hydraulic fluid supply:

The energy-efficient axial piston pump type V60N generates the necessary pressure and flow rate, continually adapting these to the current requirements. Various nominal sizes, controls and drive options offer maximum flexibility while minimizing space requirements.

- Operating pressure ( $p_{max}$ ): 400 bar
- Geometric displacement ( $V_{max}$ ): 110 cm<sup>3</sup>/rev



### Mobile and flexible - our electronic control:

Ideally suited to hydraulic components, this unit operates and carries out signal evaluation for all functions. It is linked to the vehicle controls by a CAN bus, and can also send telemetry data to maintenance technicians remotely.



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## End-to-end service.

With five sales offices in Germany, 14 subsidiaries worldwide and around 30 expert partner companies, 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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