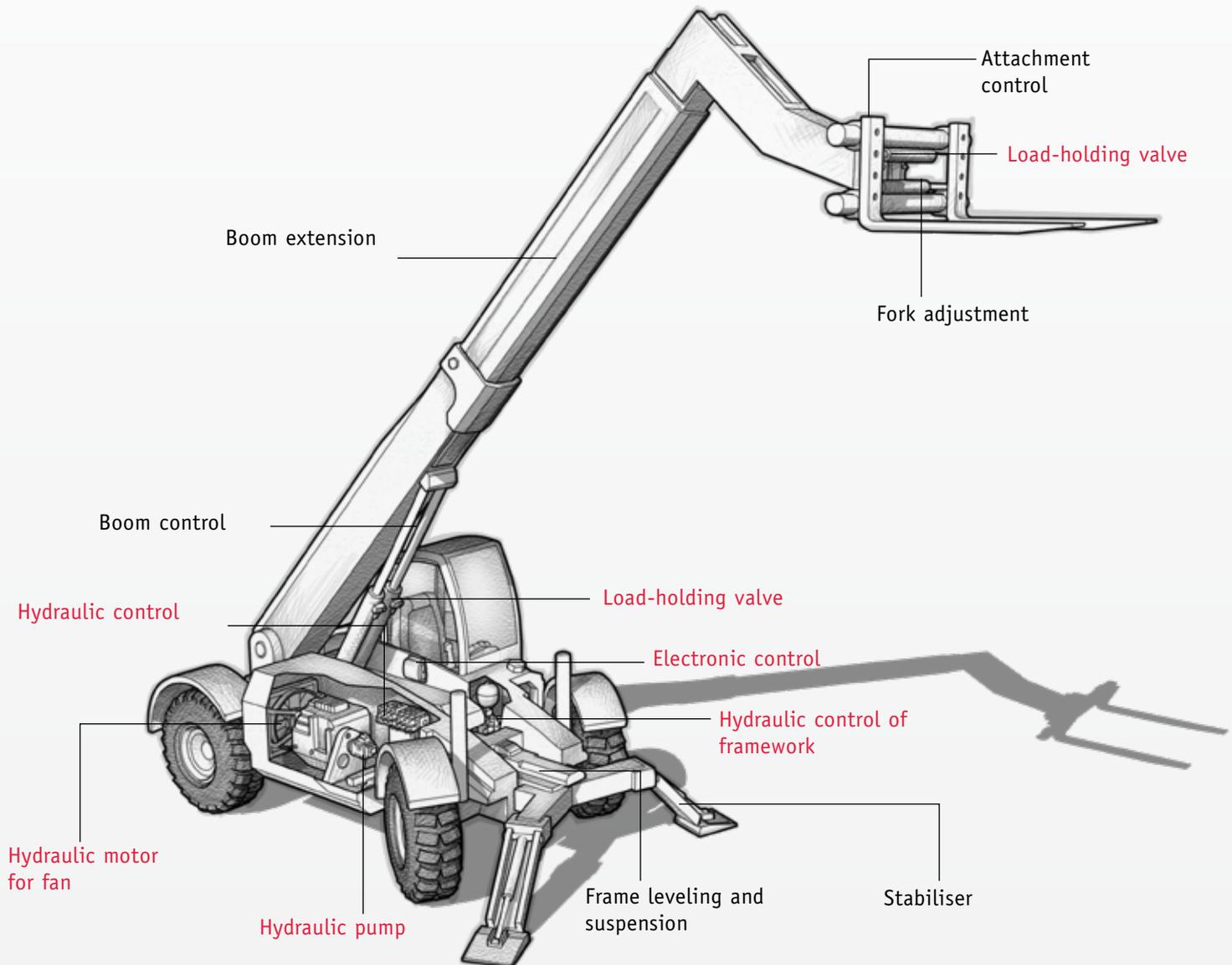


The perfect partnership of design and technology.



It does everything from stacking to transporting, pivoting, shovelling, lifting and drilling – and much more. The telescopic handler is a flexible and versatile vehicle, perfectly suited for all sorts of handling and transport tasks, even in tight spots. And it's easy to drive, too. All the operator has to do is move the joystick a little to perform a range of hydraulically controlled movements simultaneously, regardless of the load.

Solutions for a World under Pressure

HAWE
HYDRAULIK

HAWE Hydraulik: Safety is a priority.

Unrivalled versatility and flexibility.

When a forklift is unable to reach the loading site, or equipment requirements become more complex, the large loading height and the substantial number of attachments make the telescopic handler your vehicle of choice. It is extremely flexible and powerful, and it can be manoeuvred into even the tightest spaces. This requires both skill from the driver and sophisticated components to control movements. Because of the delicate balance between the weight of a load being moved, the load height, the angle of the telescopic arm and the movement speed, adaptability is the key. It is vitally important that the hydraulic control and the electronic control work together to ensure the safety of the driver and the vehicle at all times.



Photo: Aconcagua Wikimedia

HAWE Hydraulik: our expertise, your safety.

HAWE Hydraulik's tried-and-tested hydraulic control system has been in use in mobile applications such as cranes, forklifts and aerial platforms for years now – it offers the functionality and flexibility that this sophisticated type of vehicle requires. The hydraulic control modular design system offers a whole range of benefits including three different sizes, designed for different flow-rate requirements, as well as many optional features, including vibration damping, load-holding and directly integrated load and path feedback which can all be easily combined. And no matter what your customers' additional needs, we can help you implement them quickly and easily, either from the outset or when converting to new applications. The hydraulic system helps you and your customers to achieve both fuel efficiency and straightforward maintenance.

Our control systems are ideal for:

- Driving parallel operations efficiently
- Extending the telescopic lift arm with minimum vibration
- Compensating for uneven floors
- Controlling all types of equipment
- Controlling the outriggers.

The power of teamwork.

HAWE Hydraulik is the perfect partner for mobile machines in agriculture, forestry and construction industry. 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.



Photo: Wacker Neuson Wikimedia

Safety functions directly integrated.

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:

It is a state-of-the-art and economical hydraulic control for all movements – the proportional directional spool valve type PSL according to the Load-Sensing-principle. For all functions with a volume flow up to 50 l/min the directly controlled valve type EDL could be combined with the PSL in one valve bank. Requiring little space and various additional options directly integrated – these are additional advantages.

- Operating pressure (p_{max}): 420 bar
- Flow rate (Q_{max}): 240 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_g): 130 cm³/rev.



Optimal drive:

The axial piston motors with fixed displacement are designed as bent-axes motors. This provides a compact design with few moving parts, low bearing loads high reliability and high overall efficiency. Spherical pistons arranged at 40° ensure an efficient motor as well as a high starting torque.

- Operating pressure (p_{max}): 400 bar
- Geometric displacement (V_g): 108 cm³/rev.



Safety and precision:

Load-holding valves types LHK/LHT/LHDV prevent uncontrolled movements of the crane boom, and because they are leak-free, there is no need of re-adjusting. The availability of different versions (pipe connection, manifold mounting, screw-in cartridge) ensures the valve can be installed close to the actuator, maximizing speed of response and safety.

- Operating pressure (p_{max}): 450 bar
- Flow rate (Q_{max}): 250 lpm



Mobile and flexible – our electronic control:

Ideally suited to hydraulic components, PLVC 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.



End-to-end service.

With five sales offices in Germany, 17 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.

