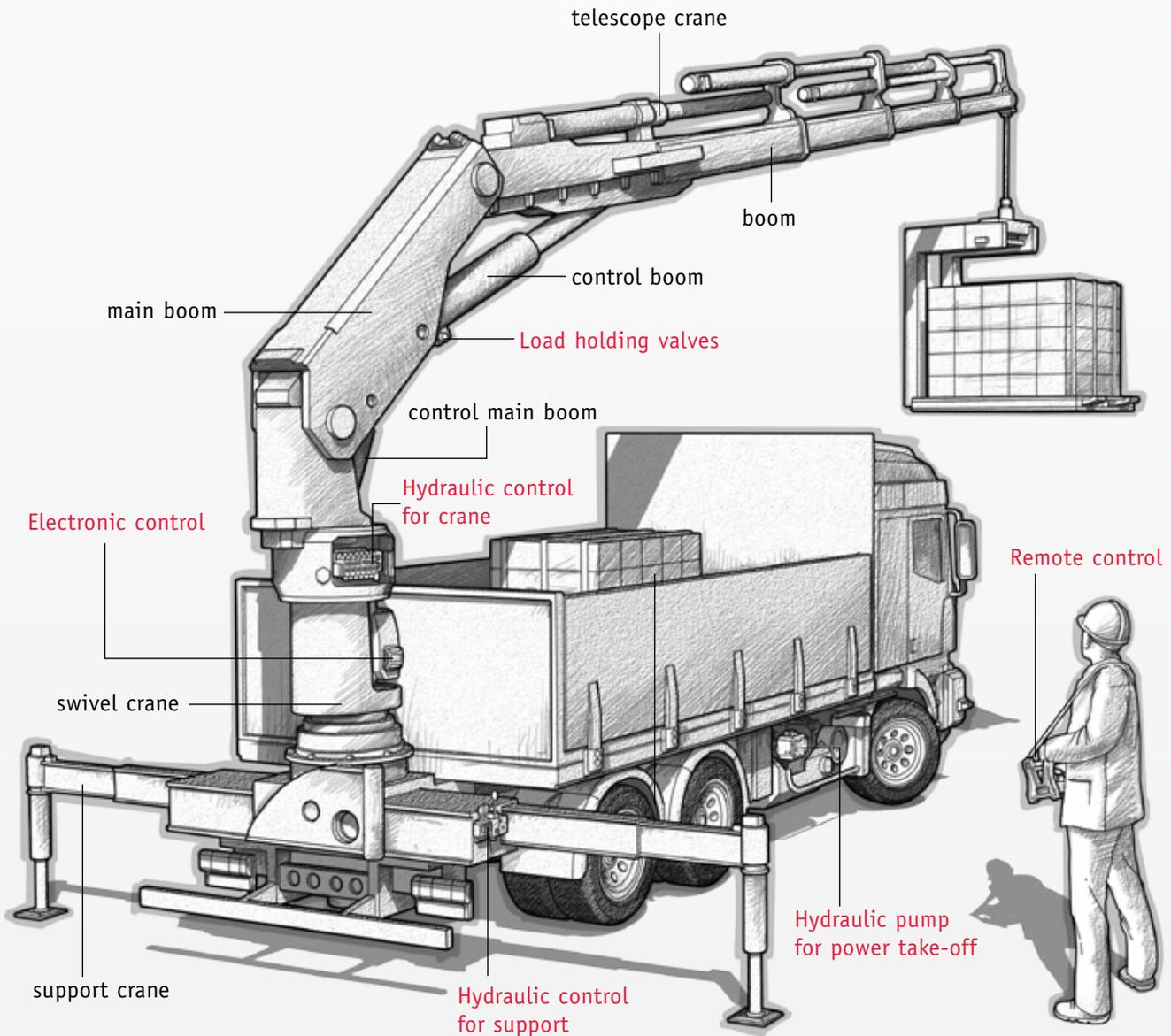


When you're in a tight spot or need to extend your reach.



When a bulky load needs to be unloaded on the 3rd floor of a building or an expensive classic car needs to be recovered, the full concentration of the crane operator is required. Wouldn't it be useful then if electronics, hydraulics and mechanics could work together easily and safely? If the operator is satisfied, then the crane manufacturers and the suppliers have done a good job.

Solutions for a World under Pressure

HAWES
HYDRAULIK

HAWE Hydraulik: Safety is the number one priority.

Versatile to suit any application site.

Loading cranes are used in the most varied scenarios all over the world: as truck loading cranes, as assembly cranes or as recovery and towing cranes. Sometimes they need to get into very tight spaces, the ground may be unsurfaced, they need to stop on steep slopes or they have to move a valuable load carefully. Due to their flexible design, these cranes can reach great heights or awkward spaces and are therefore superior to many mobile cranes.

The subject of operational safety is of the utmost importance, whether that relates to the operator, the vehicle or the load. The latest safety systems that monitor both status and movements are used by the manufacturers as standard.

The subsequent reaction is also monitored in the drive system. The OEM and component supplier develop solutions side by side in which electronic and hydraulic systems interact with each other as quickly and as accurately as is required.



Photo: HAWE Hydraulik

HAWE Hydraulik: Precisely controllable, small and light-weight.

As a system partner, HAWE Hydraulik responds to the requirements of the crane manufacturer individually and can compile the optimum solution from a consistent modular product range.

A central element is the valve bank which is used according to the load-sensing principle. This controls most of the crane functions. For example:

- Swivel movements
- Extension and retraction of the boom
- Lowering the articulated arm
- Positioning the supports
- Attachments
- Cable winches
- Work cage

If the lifting load is at the limit or there is a risk that the truck may overturn, built-in sensors report this critical condition to the control unit. The movements and speed need to be reduced immediately or even stopped.

An experienced partner.

HAWE Hydraulik supports you with many years of experience in hydraulic systems for cranes and lifting equipment of all sizes, designs and for all operating conditions. Our knowledge in the field of reducing or preventing oscillations in particular ensures that your cranes have pinpoint accuracy and can be operated safely.

With the PSL directional spool valve, HAWE Hydraulik offers several options as standard for this purpose. These can be both redundant and individually integrated into the spool valve or built into ancillary blocks. All components from our modular product range offer a high average service life (MTTFd value).



Proportional directional spool valve PSL with MTTFd values >200 and many safety options.

Thanks to an optimal alignment of the system components in your crane, together we create a system that can be controlled sensitively, is load-independent and simultaneously minimises oscillations.

Uniquely tailored to your crane.

HAWE enables you to improve efficiency, reduce weight and operate economically with its modern, reliable and robust products, all of which form part of modular systems. Some of the items in our product range include:

A directional valve for all functions:

With minimal installation effort and reduced space requirements, the PSL proportional directional valve, which is based on the load sensing principle, provides a technologically sophisticated and economic way of combining up to 10 functions, including additional and directly integrated options such as shock anti-cavitation valves.

- Operating pressure (p_{max}): 420 bar
- Flow rate (Q_{max}): 240 l/min



Actuation is based on ergonomic requirements:

The PSL proportional directional valve can be actuated with a cross lever, electro-hydraulically or just hydraulically. Four sizes are available. They are selected on the basis of individual consumers' requirements and can be easily combined in the valve bank.

- Operating pressure (p_{max}): 420 bar
- Flow rate (Q_{max}): 240 l/min



Intelligent communication 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}): 120 l/min



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/U



Mobile and flexible – our electronic control:

Ideally suited to the hydraulic components, the 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, 15 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.

