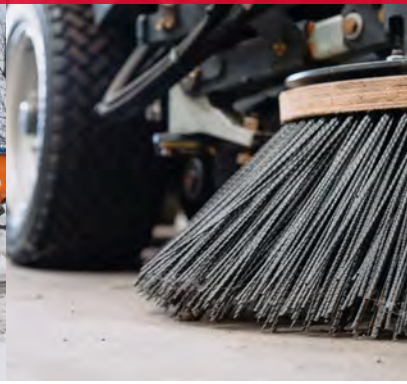
# Hydraulics for agricultural and municipal machinery



HAWE Hydraulik SE

www.hawe.com

# Modular design for maximum flexibility

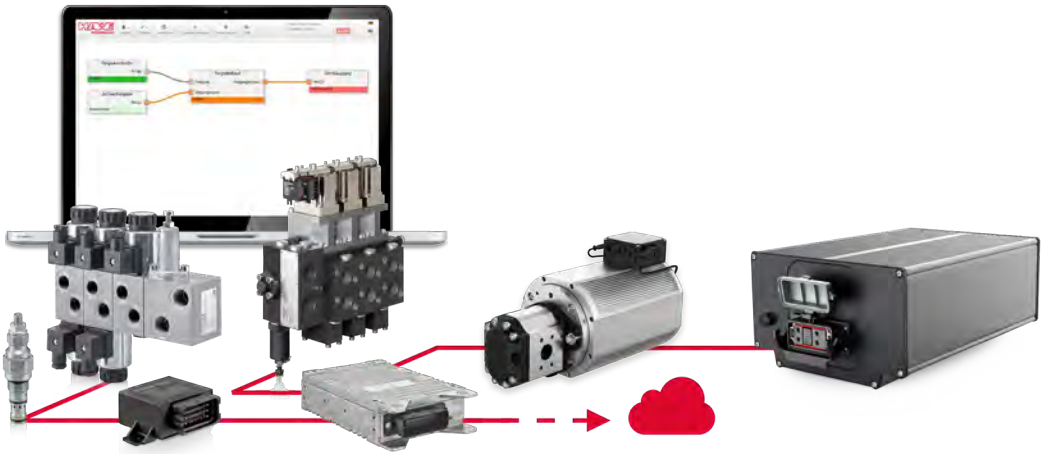
Energy-efficient and weight-optimised system solutions for mobile machinery are easy to build, even in small batch sizes: With the consistent modular design of the HAWE Hydraulik modular product system, we can quickly adapt drive and control solutions to your specific requirements. We also offer control blocks in monoblock design for series production.



Modular components can be combined in a valve bank in a flexible manner and according to requirements



Monoblock design with integrated functions for customised solutions in larger series

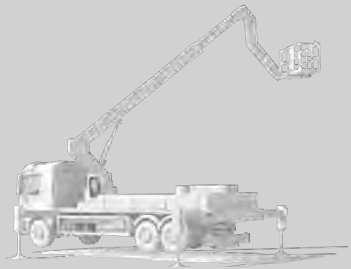


Cost savings

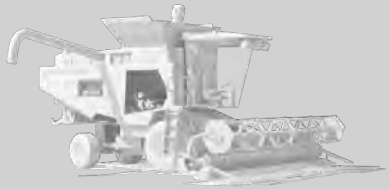
Connectivity

Modular Design

Electric Drive









# Directional spool valves for reliable control of working functions



## CWL

- $p_{max}$: 315 bar
- $Q_{max}$: 60 l/min

- Load-Sensing-Principle
- Flexible modular design
- Proportional & b/w control



## CWS

- $p_{max}$: 315 bar
- $Q_{max}$: 80 l/min

- Directly operated
- Space-saving and lightweight
- Cost-efficient design
- Proportional & b/w control



## CWD

- $p_{max}$: 350 bar
- $Q_{max}$: 50 l/min

- 6/2-way valve can be flexibly extended to form a valve bank with two or three sections connected in series

The directional spool valves type CW.. are used for simple but reliable control functions. The range of functions has been tailored and cost-optimised for mobile machines. The compact and lightweight design is the main focus here. For other demands please consider our other control blocks.

# A wide range of load-holding valves and control blocks

Standardised valves and control blocks in monoblock-design reduce commissioning and maintenance. Load holding valves control the movement of loads on cylinders or motors, prevent uncontrolled dropping or regulate the speed of movement.



## CLHV

- $p_{max}$: 350 bar
- $Q_{max}$: 350 l/min

- Load holding valve
- 4 sizes: 4 - 350 l/min
- Selection of different installation bores and connection housings



## PSL-CWL

- $p_{max}$: 350 bar
- $Q_{max}$: 300 l/min

- Simple customisation to the functional requirements of individual functions by combining the various directional valves from the modular design system



## Monoblock

- Compact design in monoblock construction
- For larger series
- With flange design, cartridge or integrated functions
- Third-party products integrable

# Pumps and pump combinations for your requirements



## C41V

- $p_{max}$: 280 bar
- $V_{max}$: 85 $cm^3$/rev

- Variable axial piston pump
- High self-priming speed
- Low weight
- Small installation space



## MPU

- $p_{max}$: 400 bar
- $V_{max}$: 130 $cm^3$/rev

- Combination of hydraulic pump and electric motor
- Various DC motors with voltage from 48 -600 V DC



## HR

- $p_{max}$: 200 bar
- $Q_{max}$: 0.96 l/min

- Mini hydraulic unit
- Small installation space and low weight
- Ideal for decentralised drive
- Protection class IP67

Axial piston and gear pumps generate the hydraulic pressure that drives the hydraulic consumers - efficiently, powerfully and directly. The drive can be electric or conventional. Mini hydraulic power packs can be used as distributed power units to save space and reduce wiring.

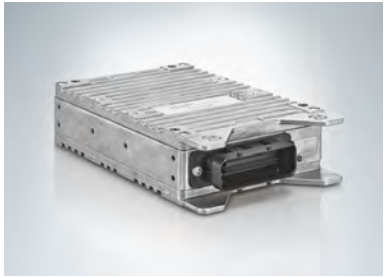
# Electronic controls, batterie packs and more

HAWE Hydraulik's hydraulic drives are already optimised for energy efficiency by their design and operating principle. Intelligently controlled by electronic controls with modern bus systems and open interfaces, they provide the ideal basis for increasing performance in many types of machine.




## CAN-IO + eDesign

- Compact mobile control
- Inputs and outputs freely programmable
- Precise current-regulated outputs
- Graphical programming



## ESX

- Universal mobile control (Master)
- SIL2 safety controllers to EN 62061 and PLd to EN ISO 13849
- Special software modules for hydraulic applications



## IEP

- Battery pack with lithium-ion cells (NMC or LFP)
- With integrated battery management system (BMS)
- Voltage (nominal): 50.4V / 100.8V

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