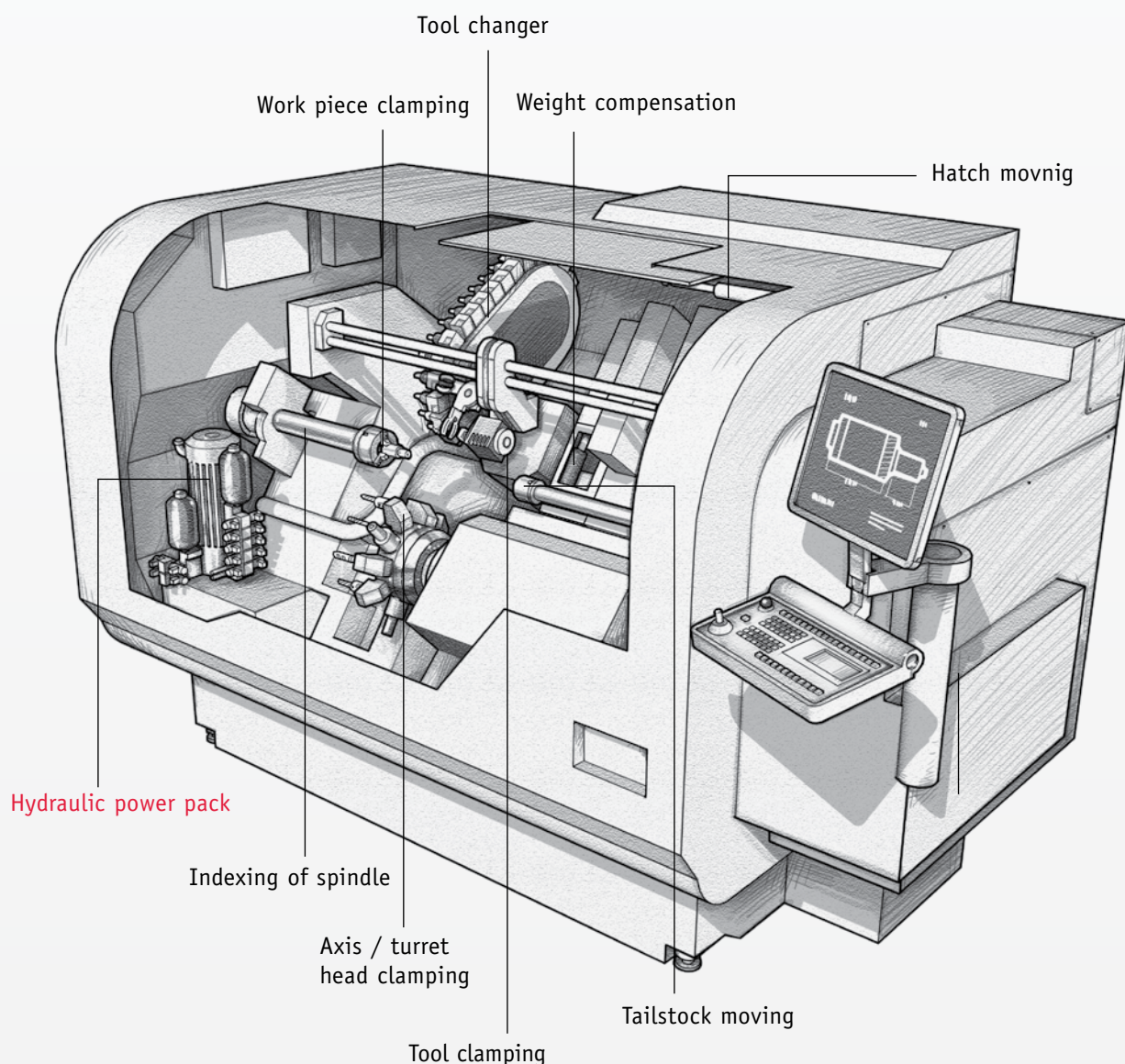
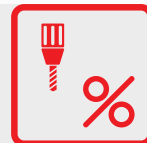


# A sound investment in lathe safety.



Often it is the little things that make the difference to the overall result. When it comes to lathes, work piece clamping is key to ensuring quality, machine safety, and increasing productivity. The experts at HAWE Hydraulik have long been aware of how important this is and develop innovative solutions to help you achieve the best possible results.

**SOLUTIONS FOR A WORLD UNDER PRESSURE**

**HAWE**  
HYDRAULIK

## HAWE Hydraulik: Products based specifically on your lathe's requirements.

### Custom-made lathes based on a modular approach.

Nowadays, lathes are seldom off-the-shelf products, but rather individually configured and assembled by manufacturers according to customers' specific requirements. A modular design is therefore the ideal solution both for manufacturers and customers. Manufacturers develop a basic machine and can adapt it to customers' specific requirements using additional modules. Customers are able to retain their flexibility and can also retrofit modules at a later date if their manufacturing processes change. If suppliers also offer an extensive and coordinated range of modular components, implementation will be considerably easier for both parties.



Picture: EMCO Maier

### HAWE Hydraulik: Countless ideas for improving efficiency and safety.

HAWE Hydraulik offers a whole range of innovative hydraulic solutions for safely setting and monitoring chuck, tailstock and steady rest clamping pressure, including compact hydraulic power packs to which valve controls without any pipes can be directly mounted. Our space-saving solutions mean more working space in your machines, and a reduction in the amount of floor space required. There are various models and sizes to choose from, depending on the operating time and the oil volume required. Many concepts for increased energy efficiency and machine safety, which have already been implemented in series, are being further developed and optimized together with our customers:

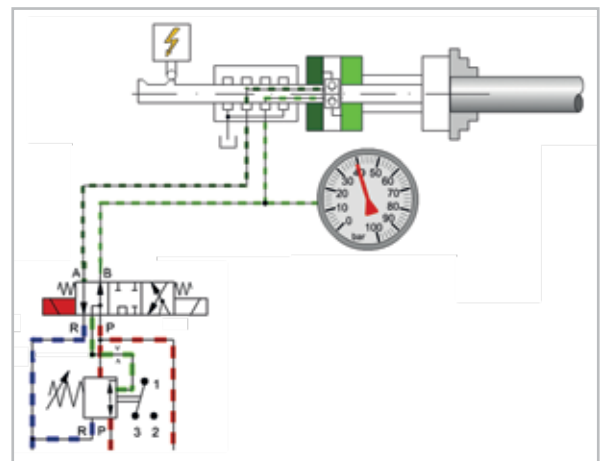
- Speed-controlled power unit with frequency inverter
- Accumulator charging operation with depressurized circulation
- 8-watt valve technology

We also offer solutions for reducing heat generation and minimizing noise.

We have an extensive range of valve modules available for safely setting and monitoring clamping pressure, which can also help to achieve the required performance level. The clamping module, which was specifically developed for lathes, sets the required clamping pressure. It monitors the pressure and flow. The process can be started right after clamping process completed and therefore being considerably safer and faster.

### For smooth operations.

HAWE Hydraulik is your experienced partner for machining centres and turning, sawing and grinding machines. Sustained production is part of our philosophy. Our solutions offer unique design and flexibility, thanks to our modular system, which is essential for your clients.



Safe setting and monitoring of clamping pressure - the clamping module type NSMD

## All that matters – efficiency, safety and precision.

Our sophisticated hydraulic solutions work seamlessly together, and have a compact, state-of-the-art design: built according to a modular system, they offer you maximum flexibility and significant financial benefits. Examples from our product range:

### A compact, multifunctional drive:

With the compact hydraulic power pack type KA, hydraulic pump and a submerged motor are combined in one housing (tank). It can be used vertically or horizontally. The compact design means that the power pack can be integrated into the machine housing. Spool valves and zero-leakage seated valves can be mounted directly to the power pack or piped separately.

- Maximum motor power: 5,7 kW  
Radial piston pump      Gear pump
- Operating pressure ( $p_{max}$ ): 700 bar      170 bar
- Delivery flow ( $Q_{max}$ ): 25 lpm      40 lpm



### Delivery flow adapted to systems requirements:

■ The compact power pack type HK is available with directly mounted frequency converter, thus matching the speed of the motor to the volume flow requirements of the hydraulic consumer units. A pressure sensor measures the system pressure, and the signal is processed in the frequency converter. Therefore the system always runs with ideal efficiency. An integrated fan is standard configuration.

- Maximum motor power: 3 kW
- Operating pressure ( $p_{max}$ ): 120 bar
- Delivery flow ( $Q_{max}$ ): 20 lpm



### Only as much delivery flow as is necessary:

The power pack type MPN is suited for high flow requirements and features corresponding tank size. A dual-stage pump (high pressure - low pressure) is available for efficient operation.

- Maximum motor power: 4.2 kW  
Radial piston pump      Gear pump
- Operating pressure ( $p_{max}$ ): 700 bar      170 bar
- Delivery flow ( $Q_{max}$ ): 13 lpm      135 lpm



### Setting and monitoring within one module:

The clamping module type NSMD is a clever valve combination with directional spool valve, pressure-reducing valve with integrated monitoring of pressure and flow. It is intended for the manual or electro-proportional adjustment of the clamping pressure of lathe chuck and tailstock.

- Operating pressure ( $p_{max}$ ): 120 bar
- Max. flow ( $Q_{max}$ ): 25 lpm





## 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
- Design, set-up and maintenance/servicing on-site

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

