Highly efficient and requiring little floor space

High power density hydraulics plays to your advantage. When carrying out clamping and drive functions hydraulics is key to high precision and speed for operating work pieces in modern machining centers.

**HAWE HYDRAULICS**

**SOLUTIONS FOR A WORLD UNDER PRESSURE**
Batch production - high precision with short machining time

Operators of machining centers demand customized solutions to efficiently produce various batch sizes, work-piece geometries and materials. However, the need for precision, speed and efficiency is also an increasing concern. Manufacturers and specialists, are required to fulfill all of these requirements. Regarding HAWE as your supplier and partner, will gain you external expertise as we develop solutions together as a team. Furthermore, the sooner we start working together on projects, the greater the potential savings we can earn.

HAWE Hydraulics: around the clock commitment

Savings start first and foremost with our hydraulic components which supply power according to requirements; our solutions use the minimal energy necessary to power the machine. HAWE Hydraulics offers a wide variety of tried-and-tested concepts for improving efficiency, productivity and reliability; these concepts offer key advantages, especially when compared to electromechanics. Thanks to high power density, our hydraulic solutions are compact and can be cleverly hidden inside the machine’s housing, therefore reducing the floor space, transport costs and installation time on-site.

Together we can make a difference

HAWE Hydraulics is your experienced partner for machining centers and turning, sawing and grinding equipment. Sustained production is part of our philosophy. Our modular systems offer unique designs and flexibility, which is essential for you and your clients.

Optimization concepts include:
- Hydraulic pumps in intermittent operation
- Accumulator charging operation
- Dual-stage pumps in one housing
- Zero-leakage directional seated valves instead of directional spool valves
- 8-Watt valve technology
- Decentralized control of functions

Comparison of energy consumption from left to right: standard hydraulic power pack with fan; power unit with frequency converter; HAWE compact power pack with intermittent operation and accumulator charging operation
All that matters - precision and efficiency

Our sophisticated hydraulic solutions have compact, state-of-the-art designs that work together seamlessly, they offer maximum flexibility and significant financial benefits. Examples from our product range:

### A compact, multifunctional drive:

With the compact hydraulic power pack type KA2, the hydraulic pump and submerged motor are combined in one housing (tank). It can be used vertically or horizontally and is suitable for short-time (S2) or intermittent operation (S3). The power pack can be integrated into the machine housing with the option to run on one axle.

- **Maximum motor power:** 1.4 kW
  - Radial piston pump
  - Gear pump
- **Operating pressure (P\(_{\text{max}}\)):** 700 bar
  - Gear pump
- **Delivery flow (Q\(_{\text{max}}\)):** 10 lpm
  - Gear pump

### Even greater oil volume:

With power pack type KA4, larger housing means greater filling capacity, in return larger motors and pumps can be fitted to provide larger displacement volumes. Fitted with an external ventilator, the KA4 power pack can also be used for permanent operation (S1) with the option to fit directional valves banks directly on the power pack.

- **Maximum motor power:** 5.7 kW
  - Radial piston pump
  - Gear pump
- **Operating pressure (P\(_{\text{max}}\)):** 700 bar
  - Gear pump
- **Delivery flow (Q\(_{\text{max}}\)):** 25 lpm
  - Gear pump

### Flexible even in the valve bank:

The valve bank type BVH can be directly fitted to the compact power pack with a connection block. The individual sections are mounted via a banjo bolt at connection port P. Even if extensions are needed replacing tensioning rods are not necessary. The directional seated valve bank is compact and has zero-leak protection.

- **Operating pressure (P\(_{\text{max}}\)):** 400 bar
- **Max. flow (Q\(_{\text{max}}\)):** 20 lpm

### Directional seated valve with industrial standard connection:

The leak-proof directional seated valves type NBVP can be mounted on industrial standard connection plates (Cetop NG6). The valves are available as 2/2, 3/2, 3/3, 4/3 and even 4/4 directional valves. Compact valve banks have several optional and safety functions, such as a switch position monitoring.

- **Operating pressure (P\(_{\text{max}}\)):** 400 bar
- **Max. flow (Q\(_{\text{max}}\)):** 20 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.

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