

When safety and reliability cannot be compromised.

Whether it is a mobile truck mounted rig, a permanent land-based rig, or an offshore platform, there is no room for compromise when it comes to the safety and reliability of the equipment used under extreme conditions.

Solutions for a World under Pressure

HAWE
HYDRAULICS

HAWE Hydraulics: reliability for extreme conditions.

Oil rigs never sleep.



Oil drilling and production has become more demanding and challenging than ever before with increasing drilling depths and tightening safety regulations. Oil companies want to know that their employees can safely do their jobs with equipment that will work consistently with precision and reliability, while having minimal impact on the environment.

To meet these challenges, oil companies are expecting their rigs to operate with

- A smaller footprint without compromising performance
- Safer operations without compromising speed
- Lower overall cost without compromising quality

Hydraulic components are a critical part of oil rig operations, and design engineers turn to HAWE Hydraulics for safety and reliability.

HAWE Hydraulics: save money and time, increase safety.

HAWE Hydraulics is able to provide uncompromising safety and reliability by using steel for all pressurized components. Working together with certified explosion-proof solenoids, HAWE's line of hydraulic products, a modular toolkit of parts, is used to create extremely robust, low-maintenance hydraulic systems. Low-manufacturing tolerances and rigorous quality-assurance processes ensure all parts meet the highest standards of safety, and save time and money.

HAWE Hydraulics' components have been successfully proven in many critical oilfield drilling and production operations, such as:

- BOP closing units and handling systems
- Winches, catheads, and rotary tables
- Drawworks braking systems
- Catwalk hydraulics
- Iron roughnecks
- Mast and substructure lifting systems
- Walking systems
- Top drives

Profit from our experience.

In 1997, North America was introduced to HAWE Hydraulik through its American subsidiary, HAWE Hydraulics. Today, this partnership brings more than 60 years of German engineering and experience to the drilling, boring, and construction equipment industries. With offices in Charlotte, NC, and Houston, Texas, we offer integrated service that covers design, manufacture, set-up, a distributor network, local inventory, and field service. This allows you to use your own resources more productively, reduces your costs, and increases your confidence in the operation.



Everything revolves around safety and reliability.

HAWE Hydraulics offers sturdy, high-precision products with state-of-the-art design. The sophisticated modular system enables you to combine the elements you need in the most cost-effective way.



Certified explosion proof:

The compact PSL proportional directional spool valve saves space and is segmented for simplified servicing. It is also certified to ATEX Zone 1 or Class 1, Division 1 for groups C and D for safety in dangerous conditions.

- Operating pressure (p_{\max}): 6,090 psi (420 bar)
- Flow rate (Q_{\max}): 63 gpm (240 l/min)



Matching pressure to current requirements:

Variations in soil conditions can affect the pressure in hydraulic systems, but this proportional pressure-reducing PDM valve maintains the correct level at all times regardless of pump pressure. A selection of pressure-limiting valves is available to protect against system failure.

- Operating pressure (p_{\max}): 5,075 psi (350 bar)
- Flow rate (Q_{\max}): 32 gpm (120 l/min)



Zero-leak pressure limitation:

When it comes to pressure relief, you can count on the reliability of the MV zero-leak valve. Capable of managing up to 10,000 psi, featuring a variety of adjustment alternatives, and with optional dampening selections, this valve safeguards your system with ease.

- Operating pressure (p_{\max}): 10,000 psi (700 bar)
- Flow rate (Q_{\max}): 42 gpm (160 l/min)



Efficient hydraulic-fluid supply:

The V30 variable displacement axial-piston pump ensures the right amount of fluid is in the right place at the right time. The low mass (low inertia) of the actuator gear allows it to make virtually instantaneous adjustments, and the large shaft bearing ensures a long service life.

- Operating pressure (p_{\max}): 6,090 psi (420 bar)
- Displacement vol. (V_g): 16.4 in³/rev (270 cm³/U)



High pressure with safety built in:

LP air-driven hydraulic pumps are specially designed for applications that operate intermittently in potentially explosive areas. This pump type has a compact design and a favorable price-to-performance ratio. LP pumps are designed for high-pressure applications and are available in various configurations, including power packs.

- Operating pressure ($p_{\max\text{-hyd}}$): 21,755 psi (1500 bar) ($p_{\max\text{-air}}$): 145 psi (10 bar)
- Displacement vol. (V_g): 1.73 in³/rev double stroke (28.3 cm³/U double stroke)

End-to-end service.

With five sales offices in Germany, 14 subsidiaries worldwide, and almost 30 expert partner companies, HAWE Hydraulik is always ready to help.

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, on-site maintenance, and servicing

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

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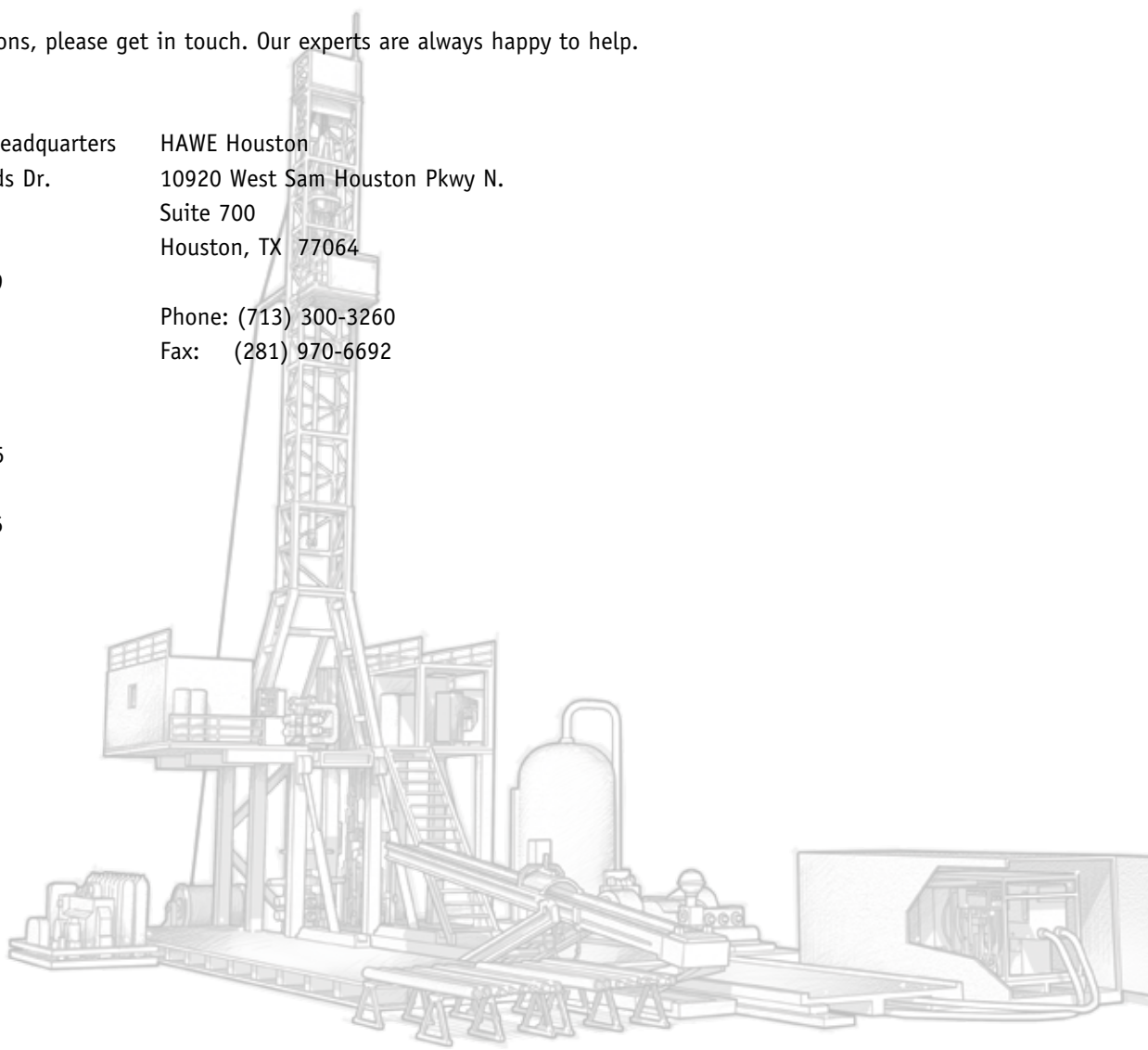
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