



# Staffordshire Hydraulics

Staffordshire Hydraulic Services was founded in 1972 and today is a wholly owned subsidiary of High Pressure Equipment Company. SHS specializes in the design and manufacture of quality high pressure equipment for demanding applications. Our leading product line is Bolt-Tensioning Power Packs and accessories, which are designed for tough applications in oil and gas, heavy construction, ship building, wind farms and renewable energy.

SHS has experience and expertise in the design and manufacture of Bespoke Pressure Equipment and Air-Driven Hydro-Test Power Packs designed for pressure testing large diameter pipelines, hose umbilicals, wellhead control valves, chemical injection, pre-charging hydraulic accumulators and operating subsea valves. We also offer high pressure hose, chart recorders and accessories.

From our central location in the United Kingdom we offer full repair facilities for our products and additionally can provide on-site servicing, commissioning and rental of certain product lines, backed both domestically and internationally by our global distribution network.



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# Bolt Tensioning Power Packs

SHS air operated power packs are compact and robust self-contained units, typically used for bolt-tensioning. These power packs are designed to meet the needs of today's offshore oil and gas industry, heavy construction, ship-building, wind farms and renewable energy, where reliable sources of hydraulic power are required.

Both Compact and Standard Power Pack can incorporate any of our proven air driven pumps. Each power pack typically contains the pump complete with air filter, regulator, lubricator, air gauge, on/off valve, hydraulic pressure gauge and gauge protective cover, outlet pressure connection block, release valve and interconnecting pipework. The exact configuration can be modified to meet customer's specific needs. The equipment is mounted inside a robust steel painted framework together with a fluid tank having filler breather and strainer. Each unit is factory pressure tested.

Our compact power packs are designed for plain water or oil duty. Typical applications include hydrostatic testing, operation of hydraulic valve actuators, clamping and tensioning tools.

## OPTIONAL EXTRAS

- Pressure isolation valve
- Circular chart pressure recorder
- Auxiliary pressure port
- Stroke counter with readout
- Stainless steel framework & hose tray



# Bespoke Pressure Equipment

We provide engineering solutions to customers' specific requirements. Our skilled engineering team can work with you all the way from conceptual design through manufacture, on-site installation and commissioning. Backed by the extensive capabilities of High Pressure Equipment and SC Pumps, we can develop a range of high pressure systems for applications such as pressure testing or actuation of valves and blow-out preventers. All of these products can be specified ATEX-approved.



# Air-Driven Hydro-Test Power Packs

A variety of different configurations are available to generate pressures up to 65,000 psi. These power packs are typically used for pressure-testing large diameter pipelines, hose umbilicals and wellhead control valves, as well as chemical injection, pre-charging hydraulic accumulators and operating subsea valves. Options are available for use with Nitrogen and other inert gases. All of these products can be specified ATEX-approved.



## TDA PUMPS

- Up to 21,600 psi
- Can be used to pre-fill and pre-pressurize high pressure and high volume test systems
- Ability to stall at predetermined pressure and hold at this pressure
- Infinitely variable cycling speed and flow; reliable and easy to maintain
- Dual seals between hydraulic and air sections with capture vent port as standard



## TDA POWER PUMPS

- Fluid inlet strainer, air filter, regulator, lubricator, air pressure gauge & pump on/off valve
- 6" diameter (150mm) panel mounted pressure gauge
- Pressure release valve, optional pressure isolation valve
- Fully assembled with all interconnecting adaptors & pipework



## L6 POWER PACKS

- The L6 Series Power Pack is a self-contained unit incorporating the proven hydraulic, high flow, air operated hydraulic pump, available in a range of models up to 11,200 psi (772 Bar) and with varying flow rates up to 4.2 UK gallons per minute (19 litres)
- 6" panel-mounted pressure gauge, pressure relief valve - supplied without a tank, but with tank options available



## L10 POWER PACKS

- The L10 Series Power Pack is a self-contained unit incorporating the proven hydraulic, double acting, air operated hydraulic pump, available in a range of models up to 25,000 psi (1724 Bar) and with varying flow rates up to 6.6 UK gallons per minute (30 litres)
- 6" panel-mounted pressure gauge, pressure relief valve - supplied without a 5 Gallon tank, but with 20 Gallon tank option available



## L3 SERIES PORTAPACK

- Utilizing an air driven pump, this series has six ratios, of which the highest (-125) can reliably generate pressures up to a maximum of 15,500 psi (1068 bar) using either oil or water as the hydraulic medium
- Operating air pressure varies from 15 psi (1.0 bar) to 125 psi (8.6 bar). Air drive consumption varies between 5-15 cubic feet per minute (0.14 - 0.43 m<sup>3</sup>/min)
- The L3 Power Pack comes complete with a 1/4" BSPF air filter/ regulator, 63mm dia air pressure gauge, on/off air valve, a tough 1.1 gal (5 litre) plastic reservoir, integral suction strainer and filler/breather

# Pressure Testing Facility

The SHS facility offers a fully safe area for controlled pressure testing of components, using water or oil, up to 60,000psi. Testing and inspection of our own products and larger systems is carried out here and live digital test reports can be provided during and after testing. We welcome inquiries from customers for the use of this facility for pressure testing customer's own products. All pressure testing can be viewed through safety windows and the facility offers the provision of a qualified test technician, lifting & handling capability and third party inspection administration area.



# High Pressure Hose

We supply a range of high-quality, high pressure hose as a complementary product to our other high pressure products. Our high quality hose is rated to over 45,000 psi and provides outstanding chemical and wear resistance.



Our hose delivers superb flow with minimal friction loss in hydraulic or fluid systems. We will cut hose to your specific required lengths with a wide range of hose terminations – including some which are unique and proprietary to us. In addition, the hose features low permeation rates making it ideal for oil & gas applications.

***Give us a call and let's start the conversation today!***



**High Pressure Equipment**  
Staffordshire Hydraulics

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# On-Site Service & Support

Staffordshire Hydraulic Services provides full support to its customers, from pre-order design consultation for our custom-engineered products, through comprehensive after-sales support.

**On-site servicing** – Our skilled fitters can visit your site for service, repair and maintenance of SHS equipment. This service covers the full range of our own product line, as well as the products from HIP.

**Repairs** – On occasion, it may be more appropriate to send products or equipment that needs repair back to SHS for appraisal and repair or refurbishment.

**Installation** – SHS service engineers can carry out efficient and timely on-site installation of many of our power products and systems.

**Commissioning** – Whether or not our own engineers install your product, you may prefer that our personnel commission the product so that it is known to be working smoothly from the start.



# Accessories & Chart Recorders

We offer Sitko chart recorders, pressure gauges, gauge calibration, equipment for hire and a range of other products and services.



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