Feature Article

United Kingdom Ltd

Hydrostatic Pressure Testing with Cat Pumps HTU

Known worldwide for reliable, durable and robust high-pressure pump technology, Cat Pumps has built a reputation for providing high quality pumping solutions in some of the toughest industrial environments. Our Hydrostatic Testing Units (HTU) are one of those pumping solutions relied on to validate burst pressure ratings, identify and locate leaks, verify structural integrity, test for manufacturing imperfections, comply with safety regulations, and certify repair work.

In industries where safety, compliance and performance are non-negotiable, hydrostatic pressure testing plays a critical role. From pipelines and valves to pressure vessels and industrial components, accurate testing equipment is essential to ensure systems can withstand demanding operating conditions. That is where Cat Pumps hydrostatic pressure testing units continue to stand out.

The Cat Pumps HTU comprises of a high-pressure plunger pump and electric motor assembly. An inbuilt 25 or 50 litre water supply tank feeds the high-pressure pump, which incorporates a pressure regulator and an easy-to-read calibrated pressure gauge. The HTU has an inbuilt pressure relief valve that will prevent the unit from achieving pressures in excess of the system design. An incorporated pressure release valve allows the pressurised water to be released back to the supply tank after a hydrostatic test has been completed. These units are designed for long service life with minimal maintenance. Operators also benefit from smooth, low-pulsation performance, which improves testing accuracy and reduces wear on connected systems.

In addition to performance, design flexibility is another key attribute of the HTU. Units can be configured for portable or stationary use and engineered to meet specific pressure, flow, and application requirements. This adaptability helps companies maintain compliance with strict industry testing standards while improving operational efficiency.

Cat Pumps hydrostatic testing units are used across a wide range of sectors including oil and gas, manufacturing, aerospace, health & safety, water utilities, and energy infrastructure. Their ability to generate high pressures safely and efficiently makes them ideal for both production environments and field-service operations. The most recent requirements for the Cat Pumps HTU are:

1. A utility company that specialises in providing efficient and sustainable water services for Gibraltar, who are responsible for the management and distribution of potable water supply and water infrastructure.
2. An Irish and UK based timber processing firm that manufactures high quality sawn softwood for the construction, fencing, packaging, and pallet industries; who operate a Biomass Combined Heat and Power Plant. They approached us looking for a mobile Hydrostatic Test Unit for testing up to 120 bar which can be wheeled around the plant to various equipment that requires periodic hydrostatic pressure testing.

As industries continue to prioritise safety and asset reliability, Cat Pumps hydrostatic pressure testing units remain a trusted solution for dependable performance when it matters most.

The models shown are for illustrative purposes only and are only a small sample of previous units. Actual units may vary significantly depending on customer specification.

For more information on Custom Units, call us on 01252 622031 or visit www.catpumps.co.uk/engineered-packages.asp

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