MultiJet

A machine for every job

# High Pressure Water Jetting Equipment



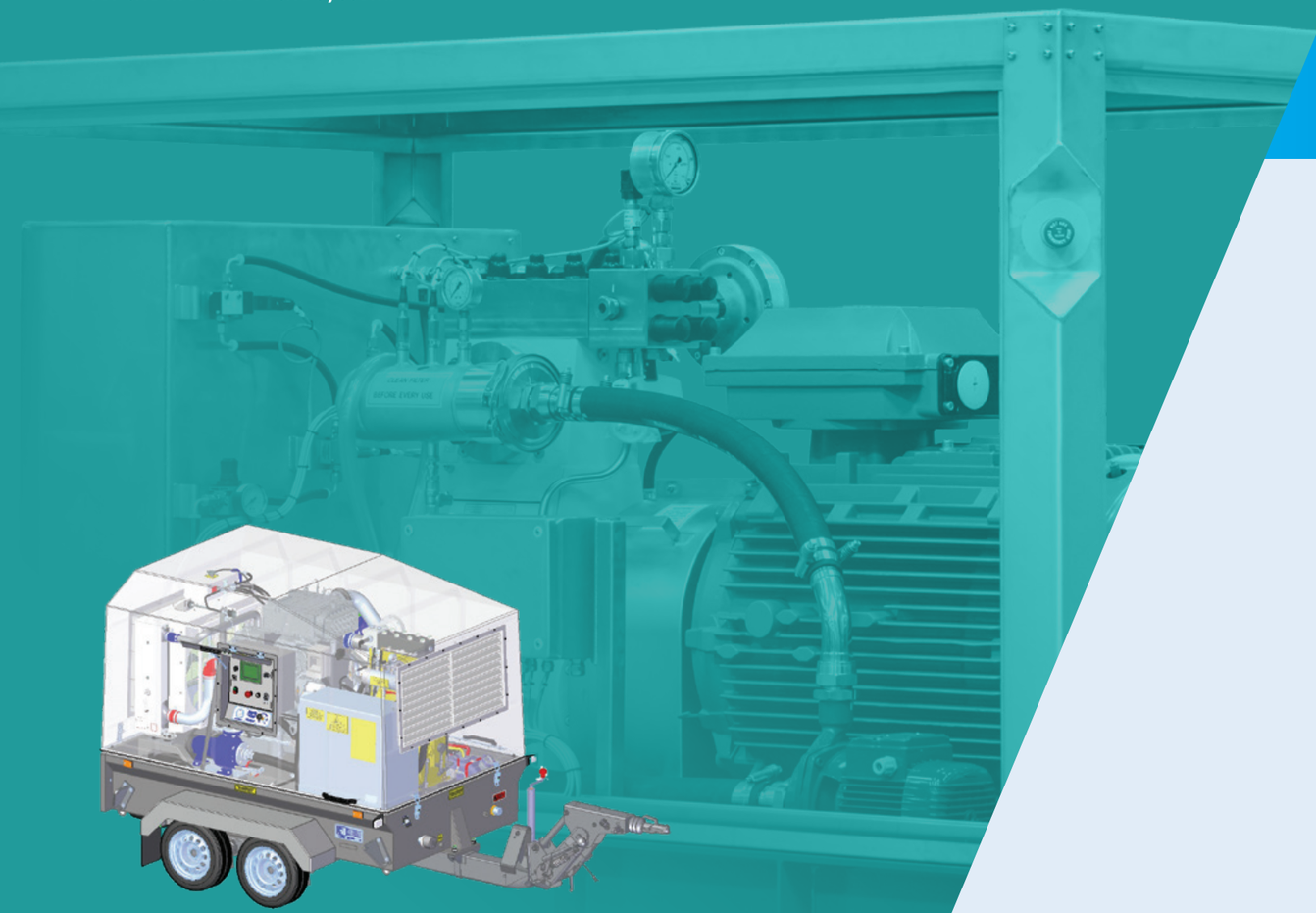
- Standard and bespoke
- Electric or diesel
- Modular, lightweight and compact
- Every industry, every application

CALDER

MultiJet

# From idea to implementation and beyond – we're here

Our sales and engineering teams will work with you to develop a pump system with the correct pressure and flow rate configuration to suit your application. With standard or bespoke machines and a full range of accessories, we provide the complete turnkey system. Then we are here to support you for the lifetime of the system.





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SUPERB RELIABILITY

LOW MAINTENANCE

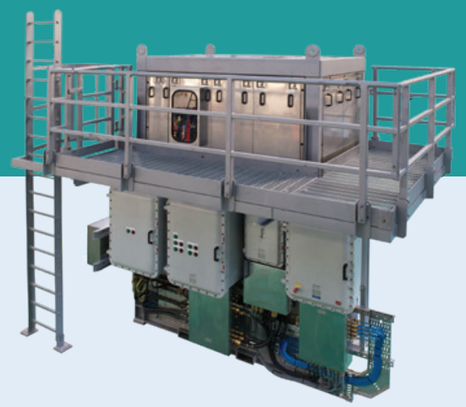
THE PUMP FOR HIGH PRESSURES

## Every machine:

- Features the low-maintenance Hammelmann reciprocating plunger pump.
  - Vertical Plunger Orientation.
  - Oscillating forces are directly downwards into the base structure.
  - The crosshead and plunger weights are neutralised within the sealing system, effectively reducing wear on all oscillating components.
  - Automatic air venting which greatly decreases the possibility of cavitation.
  - Linearly aligned forces of gravity between the pump and the diesel engine reduce vibration.
- Offers long service intervals to minimise downtime and running costs.
- Utilizes direct drive through a flex coupling. No Belts. No Side Loads.
- Is supported by our lifecycle services team with spares, service and training.
- Simple pump plunger conversion kits available to suit many different jetting applications.

# A machine for every job

**From standard MultiJet machines to bespoke designs, we offer the high pressure pump unit tailored to your requirements.**





## Standard and bespoke

In addition to our standard pump units, our bespoke design experience is immense. From the application to the operating parameters, from the operating location to the environmental conditions, we design bespoke, compliant systems to suit your requirements.

This unit was designed for a restricted space on an offshore platform. We designed a small footprint, two-tier unit capable of supplying hot water to various locations simultaneously. This unit is compliant with ATEX Zone 2 and NORSOK. Let us know your challenge - our team is ready for your enquiry.

## Safe or hazardous area operation

We have long specialised in high pressures and hazardous areas. We supply systems compliant with ATEX Zone 1, ATEX Zone 2, NORSOK, IECEx, and CSA.



## Modular, lightweight and compact

Where access to the operating location is limited, or there are floor loading or craneage weight restrictions, innovative designs are needed. Our engineers relish the opportunity to design for these situations.

## Electric or diesel

Electric pump skids are used in fixed locations in production facilities for applications such as conveyor, food tray and die cleaning. Generally mounted indoors, but with enclosure and container options to allow siting outdoors.








## Skid, trailer, crash frame, container

**Skid** The lightest and most economical option. Can be fitted with an enclosure for environmental, noise, and blast case requirements.

**Crash frame** Lightweight solution for equipment that requires a level of protection.

**Trailer** Ideal for multi-site operations.

**Container** Maximum protection with a range of noise attenuation, internal lighting, storage, and maintenance area options.

You will find our units engaged in hydro-demolition, tank and pipe cleaning, and surface preparation jobs - both onshore and offshore.



MultiJet

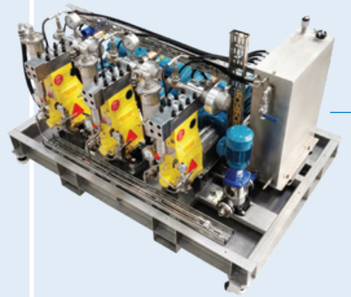
## Our significant bespoke design experience includes:

- Lightweight units for fast deployment in nuclear incidents
- Offshore aquaculture machines for net cleaning
- Pressure test machines with integral control room
- Hot water jetting unit for simultaneous multi-location washdown
- Two-storey washdown machine to meet space constraints

## Every industry, every water jetting application

***Whatever your industry, we are here for you.***

These are three examples of how we have helped various industries through the design of bespoke MultiJet packages.



***1.*** High pressure water into three robotic cleaning cells.

***2.*** Specialist pump units for aquaculture net cleaning.





***3.*** Emergency response reactor cooling.

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# Accessories

As the supplier of complete systems, our MultiJet units are accompanied by an extensive range of accessories. From cutting through 100 mm thick steel to removing road markings, we have the accessory for your application. Nozzles, tank heads, robotic machines, vacuum systems – we supply it all.

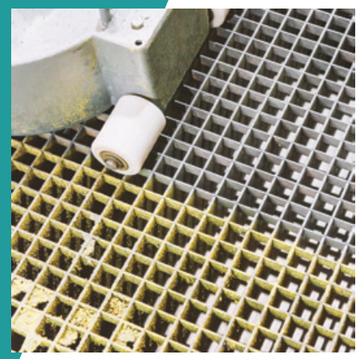
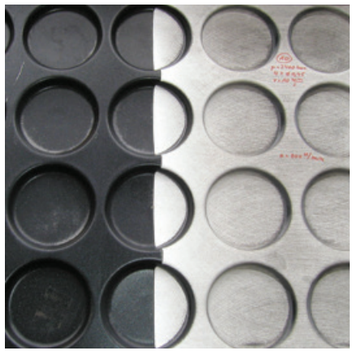
We work with you to determine the appropriate MultiJet for your location and applications. Then we look at which accessories will provide you with the most efficient performance and, to keep your operators safe, we advise which PPE is required. Waterjet training and product familiarisation are followed by spares and service support from our hugely experienced team.

***That's why we say, from idea to implementation and beyond – we're here***







# Support



## Pump Selection and Performance Conversion Kits

Starting with the initial pump selection, there is a large range of pump performance options. Additionally, performance conversion kits are available for every MultiJet. The kits are easily fitted and maximize the potential of the unit by altering the operating pressure to suit the application.



## Spares

We have a large stockholding of spare parts for our MultiJet units at our UK manufacturing facility. We offer same-day despatch for stocked items. Tailored, consolidated operating spares lists can be prepared to suit your equipment portfolio.



## Service

Our Service Department offers maintenance and service packages to suit your individual requirements - from basic, ad hoc service visits, to full maintenance packages. And our team are always on hand to offer advice and support - just a phone call away.



## Training

We conduct City & Guilds-accredited water jet safety training in accordance with Water Jetting Association guidelines. We also offer training in the operation and maintenance of all our water jetting units.



## PPE

Keeping operators safe - in comfort up to 3,000 bar! The TST range of safety clothing has been developed to offer excellent protection and comfort to the operator. The Waterjet Protection range covers pressures up to 3,000 bar and the ProOperator range offers high pressure cleaning protection up to 500 bar. As a UK agent for TST, we hold stock for quick despatch.

The Water Jetting Association is dedicated to improving safety in the water jetting industry. Through codes of practice, and safety and application specific training courses, the Association is committed to raising and maintaining standards to keep operators safe.

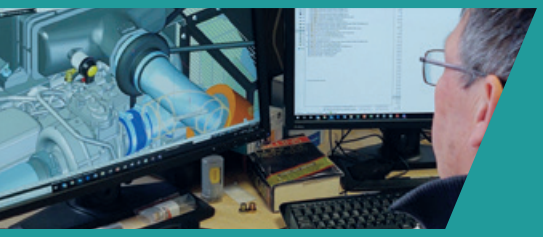
Calder has been an active member for over 20 years.

THE VERY BEST IN HIGH PRESSURE WATER JETTING TECHNOLOGY



## *We are* **Calder**

A team of skilled, dedicated people striving to build the best. From design to build, from despatch and beyond, we are here to support you.



## *We* **Design**

In addition to our standard water jetting units and accessories, we have in-house design teams producing bespoke products to suit specialist applications.



## *We* **Build**

Our pump units are built by our own engineers at our factory in Worcester, UK - and they have been for over 40 years.




## *We* **Support**

For the lifetime of your high pressure water jetting equipment we are here for you - training, spares, and service.

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