SURFACE PREPARATION High Pressure Water Jetting Solutions









High Pressure Water Jetting Solutions Manual Jetting and Power Units SURFACE PREPARATION

INTRODUCTION

Calder ultra high pressure water blasting systems operate at pressures up to 3,000 bar without any abrasive additives. Using water eliminates the harmful and often damaging side effects produced by dry abrasive blasting such as airborne dust, chemical/thermal pollution and surface ingrained residual blasting materials. It is the healthy, environmentally friendly method of surface preparation.

Substrates prepared by Calder systems meet the quality requirements set by international paint manufacturers and standards authorities for the application of new coatings. The water pressure necessary depends upon the condition of the existing surface layer(s), the type of coating to be applied and the substrate quality necessary for the successful application of that coating.

Manual High Pressure Jetting Equipment

Calder offer a complete range of manual jetting equipment and accessories suitable for a huge range of industrial cleaning applications which can be operated with Calder's high pressure power units.

The energy of the high velocity water jets blasts into the pores in the metal surface flushing out solid foreign matter and non water soluble pollutants such as oil and grease. Remaining chloride levels are at least 5 times lower than in a grit blasted surface and the substrate profile remains intact ensuring good adhesion of the new coating and greatly reducing the risk of future paint film defects.

The amount of waste produced is far less than that produced by dry blasting. It is only the waste water, old paint, marine growth and rust which is easily collected for separation and disposal. Water can be treated for disposal or recycling. Shrouding the work area is not necessary. Water will not harm nearby equipment and machinery as is often the case with ingress of flying grit particles nor is there any unhealthy dust to distress yard personnel.

Aquablast FRWW 3000

Ergonomic hand-held unit for the removal of paint, dirt and algae from vertical surfaces. Vacuum connection capability for removal of waste.

- Working width: 140 mm
- Operating pressure: 3,000 bar max

Horizontal unit with vacuum connection

Operating pressure: 3,000 bar max

capability for the removal of deck coatings,

paint, rust, oil and grease deposits, mastics

- Flow rate: 19 lpm
- Rotation speed: 2,500 rpm

Aquablast FRV 3000

and the scarifying of concrete.

Working width: 215 mm

Rotation speed: 2,500 rpm

Flow rate: 40 lpm

SP 3000-E-H

US style, electric control (bypass) hand lance with an easy-to-use trigger mechanism for use up to 3,000 bar.

SP 3000-MB

Easy-to-use, mechanical bypass-valve-operated hand lance (dump gun), for use up to 3,000 bar.

40K Dump Gun

Light-weight, easily maintained heavy duty hand lance with mechanical bypass (dump gun).



www.calderltd.com

RD Flex 3000

A 3,000 bar nozzle assembly for use with a range of lances. Choice of interchangeable heads, quick change seal system, and internal protected brake.

• Rotation speed: 1,000-4,000 rpm

• Flow rate: 8.5–30 lpm





SPIDERJET

The remotely controlled, air-driven SpiderJet is a very agile unit that attaches to the work surface through vacuum force and moves vertically, horizontally and overhead on both flat and curved surfaces. Ideal for a range of applications including the coating removal and surface preparation of ship hulls, oil and gas storage tanks, and holds and bunkers, the SpiderJet can be used in conjunction with a waste recovery vacuum system. High pressure pump unit required – see our MultiJet range.

- Working width: 375 mm
- Coverage: up to 70 m² per hour
- Operating pressure: 3,000 bar max



DOCKBOY

A job-specific marine industry work vehicle primarily for fast and efficient surface preparation of the underside of ships hulls. Eco-friendly vacuum recovery of removed coating, rust and waste water. Also used for deck and superstructure preparation. High pressure pump unit required – see our MultiJet range.

- Working width: 370 mm
- Coverage: up to 70 m² per hour
- Operating pressure: 3,000 bar max
- Working Height: 5.6 metres

DOCKMATE®







 Vacuum collection module

Remote control operation coupled with a telescopic jib make the Dockmate a versatile surface preparation tool. The waste recovery module allows collection and disposal of solid waste and treatment of waste water. Optional high pressure pump module available.

- Working width options: 380 mm, 595 mm and 860 mm
- Working height options: 22 metres, 27 metres and 32 metres
- Operating pressure: 3,000 bar max
- Coverage: up to 150 m² per hour

www.calderltd.com

DOCKMASTER

This powerful workhorse features its own pumping system removing the need to hook up to a separate high pressure water source. Couple this with the telescopic jib and waste recovery system and this machine is the ultimate in the surface preparation of large areas.

- Working width options: 380 mm, 595 mm and 860 mm
- Working height: 30 metres
- Operating pressure: 3,000 bar max
 Coverage: up to 150 m² per hour



High Pressure Pump Units

Our MultiJet range of high pressure water jetting machines has been in use throughout the world for over three decades. Combining the ever-reliable Hammelmann pump with high quality component selection, the MultiJet is the machine of choice for operators who value reliability, low maintenance and low life-cycle costs.

Options

- Diesel
- Electric
- Skid
- Crash frame
- Container
- Protective hood
- Tow hitch
- Fork-lifts slots
- Onboard control panel
- Overhead sling set
- Onboard fuel tank
- Onboard water break tank









GALDER

Agents for:







web: www.calderltd.com email: sales@calder.co.uk tel: +44 (0) 1905 751790







