



FLOWPLANT®

Engineering excellence in high-pressure
pump systems

INDUSTRIAL BROCHURE

For over five decades, Flowplant has been a trusted supplier of high-pressure pump equipment. Our factory in the UK is dedicated to engineering high-quality products that not only meet rigorous standards but also offer exceptional value for your investment.

WHY CHOOSE FLOWPLANT

Our high pressure pumps and systems have an enviable reputation for technical excellence, reliability and longevity; undeniably qualities which come from more than fifty years of manufacturing experience.

Get in touch today on
sales@flowplant.com
or call 01722 325424
today.



With in-house engineering and experienced sales support, Flowplant has been the choice of many professional industrial contractors and end users around the world. We will work with you to design, build and supply bespoke industrial water jetting products that will be a genuine asset to your business.

We can produce equipment for working pressures from 100 – 3000 bar. Built in accordance with our own ISO9001 quality standards, we can comply with relevant industry standards including ATEX, Norsok, DNV2.7-1.

INNOVATION INTEGRITY EXCELLENCE

WE are an innovative and focused engineering company.

WE encourage open and honest partnerships in all our activities.

WE care deeply about what our customers think of our products.

WE work hard to ensure that the projects entrusted to us are delivered in a safe and environmentally aware manner which exceeds expectations.



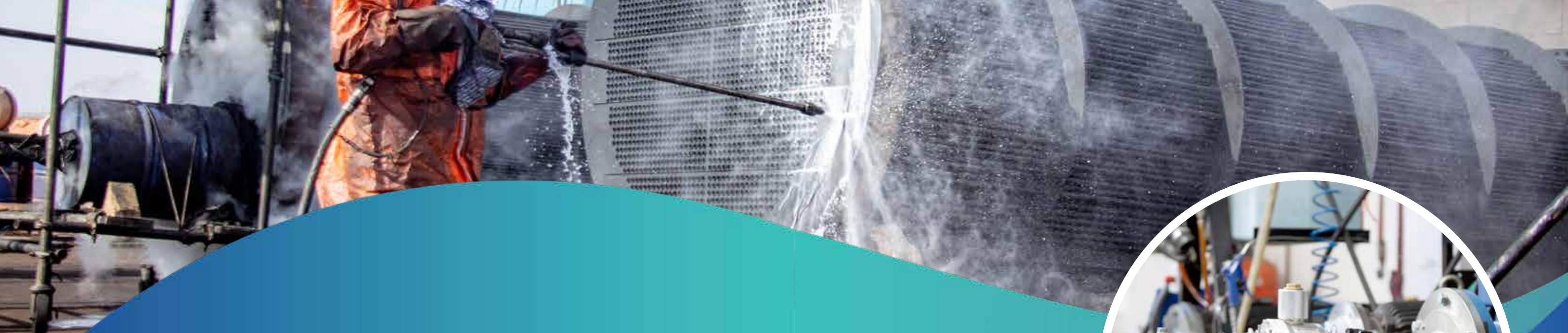
Partnership
with Clients



Safety &
Quality



Reliable &
Consistent



PRODUCTS

We manufacture our own high pressure pumps:-

The “Aqua” is a triplex plunger pump that is compact and robust. With a range of plunger sizes and gearbox ratios, the Aqua can operate at pressures up to 1000 bar (14,5000psi) and flow rates to 392 litres/min.

The “Harben” is a radial piston diaphragm pump, and one of the best performing, reliable high pressure pumps on the market today. With the ability to handle a range of fluids, pump “dirty” water, and to run dry without damage, makes the Harben pump the ideal choice for many industrial applications.

Our pumps are built into bespoke water jetting units. Using the latest 3D modelling techniques, our engineers can customise solutions, and design equipment that meets some of the most difficult of technical specifications. We are proud to have worked with many high profile customers worldwide, and repeat business is the best acknowledgment of satisfaction.

The pumps can be driven by diesel engine, electric or hydraulic motors. They can be supplied for installation into new or existing plant, mounted on our standard skids, trailers or containers. In cases where the technical requirements are outside of the limits of our own products, we have access to industry leading alternatives and we will build high quality products with 3rd party pumps – nothing is beyond our capabilities ! Contact us to discuss your individual requirements.

TYPICAL APPLICATIONS

- | | |
|---------------------------------|---------------------------------|
| ✓ FLOOR & SURFACE CLEANING | ✓ GENERAL EQUIPMENT CLEANING |
| ✓ TANK & STORAGE VESSEL WASHING | ✓ ABRASIVE BLASTING |
| ✓ DESCALING | ✓ TUBE DESCALING |
| ✓ SUBSEA CLEANING | ✓ DRAIN/SEWER CLEANING |
| ✓ HEAT EXCHANGER TUBE CLEANING | ✓ SURFACE PREPARATION |
| ✓ COATINGS & CORROSION REMOVAL | ✓ PIPE CLEANING |
| ✓ HYDRODEMOLITION | ✓ FLOOR, ROAD & RUNWAY CLEANING |
| ✓ ROAD WHITE LINE REMOVAL | ✓ RECYCLING |

APPLICATIONS

Explore how our solutions enable industries to tackle the toughest challenges, from heavy-duty equipment maintenance to precision cleaning in manufacturing. Discover the efficiency, power, and precision that Flowplant brings to industrial cleaning, setting new standards for performance and reliability.

INDUSTRY / APPLICATIONS	RECOMMENDED PRESSURE	
	PSI	BAR
ALUMINIUM PLANT		
Hardened bauxite dust on mills, filters, floors, tanks, sumps and sewers.	10,000-36,250	700-2500
AUTOMOTIVE		
Paint and underseal from booths, machinery, grating and conveyors.	5,000-36,250	350-2500
AIRPORTS		
Expansion joints; grease, rubber and hydraulic fluids on runways.	10,000-36,250	700-2500
BREWERIES		
Yeast, sediments and fermentation residues on vats, pipes and facilities.	3,000-5,000	210-350
CEMENT PLANTS		
Remove dirt, grease and product build-up on grates, floors, external piping, bins, walls, hopper cars and handling equipment.	5,000-15,000	350-1000
Cooler hearths & preheater columns, bins, hoppers, floors, rotary kilns & walls.	3,000-36,250	210-2500
CHEMICAL PROCESSING		
Chemical from boiler tubes, tanks, valves, evaporators, heat exchangers, tube bundles, pipe, vessels, reactors and facilities.	3,000-36,250	210-2500
CONSTRUCTION & HYDRODEMOLITION		
Concrete removal, cutting and surface preparation.	20,000-36,250	1400-2500
Exposing aggregate, asphalt distributors, mixers, tar cookers and pavers.	5,000 - 15,000	350 - 1000
Removing latents from channels, lifts, dams and runways prior to pours (no retarders) exposing aggregate (un-retarded).	5,000 - 15,000	350 - 1000
FOOD PROCESSING		
Cleaning grease, fats, oils, dirt and dough; food residues from vats, ovens, mixers, conveyors, and facilities.	5,000-20,000	350-1400
FOUNDRIES		
Removal of deposits, metal oxidation, ceramic and sand core material from casting, furnaces and paddles.	15,000-36,250	1000-2500

HIGHWAY MAINTENANCE		
Cleaning of grease, vegetation, mud, tar, cement or asphalt on vehicles & machinery.	3,000 - 5,000	210 - 350
Graffiti, stains, tar and mastics on concrete bridges and overpasses.	5,000 - 15,000	350 - 1000
Removal of expansion joints and paint strips.	3,000 - 5,000	210 - 350
MARINE		
Removal of marine growth, barnacles, paint & rust on ship hulls, docks, ballasts, platforms, storage tanks and boilers	10,000-36,250	700-2500
Underwater cleaning of pipe and drilling platforms of barnacles and marine growth.	7,500-15,000	500-1000
MEAT PACKING		
Cleaning of grease, fats, blood and soot from ovens, mixers and vats.	3,000-5,800	210-400
METAL WORKING		
Mill scale, rust and weld slag from new vessels, tanks and pipes.	2,000-4,350	140-300
MINING		
Pre-maintenance cleaning of dumpers, drag lines, underground haulage lines and shafts.	7,500-10,000	500-700
Cleaning of plant machinery due to coal, rock dust, mud or oils.	7,500-10,000	500-700
MUNICIPALITIES		
Sewer & drain pipes; sanitation equipment and refuse vehicles.	3,000-5,000	210-350
OILFIELD		
Paraffin and crude residues on platforms and storage tanks.	3,000-7,500	210-500
Removal of drilling mud and cement for drill pipe.	10,000-20,000	700-1400
High pressure flushing of umbilicals, pipes and systems.	4,350-15,000	300-1000
PETROCHEMICAL PROCESSING		
Algae, carbon, scum and asbestos in heat exchangers, soft polymers, reboilers, tanks, reactors, cooling towers and facilities	5,000-15,000	350-1000
Calcium carbonate and sulphate, hard polymers, iron oxide, coke, hard carbon, PVC and PVA on heat exchangers or reboilers.	10,000-36,250	700-2500
PHARMACEUTICAL		
Cleaning of chemicals (liquid and solids) from pipe, kettles, mixers, tubes, heat exchangers, reactors, filters and evaporators.	10,000-36,250	700-2500
PIPE (INDUSTRIAL)		
Removal of corrosion and old coating before recoating, drill pipe cleaning, removal of debris/residues from process pipework.	10,000-20,000	700-1400
POWER STATION		
Nuclear decontamination of fuel capsules, "U" tube exchangers, flash from preheater tubes; hand tools and equipment.	3,000-36,250	210-2500

CONTINUED OVER

APPLICATIONS

INDUSTRY / APPLICATIONS	RECOMMENDED PRESSURE	
	PSI	BAR
PULP & PAPER		
Cleaning of grease, oil, pitch, dirt and wood pulp from heat exchangers, tubes, press sections of paper machines, suction rolls, stock cheats & lines.	5,000-10,000	350-700
RAILWAYS		
Gypsum, potash, cement, lime in hopper cars; removing grease, dirt and deposits in truck and undercarriages and tank cars.	5,000-10,000	350-700
Leaf mould removal from tracks.	10,000-20,000	700-1400
REFINERIES		
Wax, paraffin, grease and crude residues.	3,000-5,000	210-350
Water scale, coke, hard carbons & polymers in heat exchangers, tubes & tanks.	10,000-15,000	700-1000
RUBBER PROCESSING		
Latex, SBR and water scale in reactors, storage tanks, heat exchangers, tubing, pipe and facilities.	10,000-15,000	700-1,000
STEEL MILL		
Mill scale removal, coke, ore or lime in heat exchangers, flues, boilers, open hearths, furnaces, chutes and hoppers.	2,000-10,000	140-700
Water hydraulics.	3,000-4,350	210-300
Coke oven door cleaning.	7,500-10,000	500-700
SURFACE PREPARATION		
Paint, rust, refractory build-up, salts, concrete and marine growth cleaned to corrosion profile.	10,000-36,250	700-2500

TRAINING

Flowplant training courses are written by water jetting experts. They combine a written test and a hands-on session – every aspect of the jetting operation is covered.

Get in touch today on training@flowplant.com or call 01722 325424 (Option 3) today.



Flowplant training instructors are approved by the Water Jetting Association (WJA) to deliver water jetting courses. The mandatory Safety Awareness course and the additional practical courses help ensure all users have the required knowledge to use their equipment safely.

Flowplant are proud to be able to offer this service, and to share many years of experience helping this unique industry continue to succeed.

“The quality & quantity of the course was excellent. Our trainer Mark Preston was a really knowledgeable guy about all aspects of the desilting machine. The theory on the course related to the practical and everything tied in seamlessly. Safety was the main focus on all aspects of the course. With the excellent instruction and detail on how to use the machine, we came away feeling we could use the equipment safely & competently.”

Wayne Holt

Chief Engineers Complex Delivery
Openreach





Scan the QR code to find out more about the applications for high-pressure water jetting and pumping.

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