FLOWPLANT

Industrial High Pressure Water Jetting Equipment

About Us

Flowplant Group have been supplying high pressure pump equipment for over 40 years, and from our factory in the UK, we produce products that are high quality and value for money.

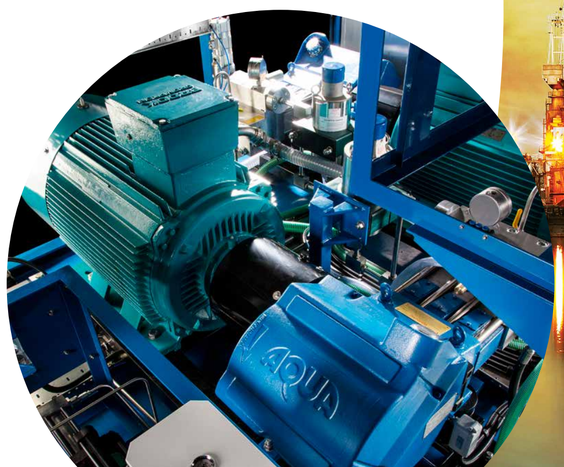
With in-house engineering and experienced sales support, Flowplant has been the choice of many professional industrial contractors and end users around the world. We will work with you to design, build and supply bespoke industrial water jetting products that will be a genuine asset to your business.

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.

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 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 Industrial Water Jetting Applications

FLOOR AND 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

Flowplant High Pressure Pumps

Applications

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. Cooler hearths & preheater columns, bins, hoppers, floors, rotary kilns & walls.	5,000-15,000 3,000-36,250	350-1000 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. Exposing aggregate, asphalt distributors, mixers, tar cookers and pavers. Removing latents from channels, lifts, dams and runways prior to pours (no retarders) exposing aggregate (un-retarded).	20,000-36,250 5,000-15,000 5,000-15,000	1400-2500 350-1000 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. Graffiti, stains, tar and mastics on concrete bridges and overpasses. Removal of expansion joints and paint strips.	3,000-5,000 5,000-15,000 3,000-5,000	210-350 350-1000 210-350
MARINE	Removal of marine growth, barnacles, paint & rust on ship hulls, docks, ballasts, platforms, storage tanks and boilers Underwater cleaning of pipe and drilling platforms of barnacles and marine growth.	10,000-36,250 7,500-15,000	700-2500 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. 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. Removal of drilling mud and cement for drill pipe. High pressure flushing of umbilicals, pipes and systems.	3,000-7,500 10,000-20,000 4,350-15,000	210-500 700-1400 300-1000
PETROCHEMICAL PROCESSING	Algae, carbon, scum and asbestos in heat exchangers, soft polymers, reboilers, tanks, reactors, cooling towers and facilities Calcium carbonate and sulphate, hard polymers, iron oxide, coke, hard carbon, PVC and PVA on heat exchangers or reboilers.	5,000-15,000 10,000-36,250	350-1000 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

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 Leaf mould removal from tracks.	5,000-10,000 10,000-20,000	350-700 700-1400
REFINERIES	Wax, paraffin, grease and crude residues. Water scale, coke, hard carbons & polymers in heat exchangers, tubes & tanks.	3,000-5,000 10,000-15,000	210-350 700-1000
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 Water hydraulics. Coke oven door cleaning.	2,000-10,000 3,000-4,350 7,500-10,000	140-700 210-300 500-700
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 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.

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