

AIRBLAST



High & Ultra High Pressure Technology

Water Jetting

Water Jetting Solutions



Main Picture : Stripping concrete from formwork at 2500 bar inset : Surface preparation, shiprepair at 2750 bar

Airblast Pumps

With extensive experience in the design & manufacture of High Pressure (HP) & Ultra High Pressure (UHP) plunger pumps and Water Jetting equipment since 1974, Airblast is justifiably proud of its product range and offers a flexible approach to the changing needs of a worldwide customer base.

Every pump & unit we manufacture is function tested and certificated for performance prior to despatch from our headquarters in the Netherlands.

Whether you need a bespoke Water Jet Cleaning or Cutting System, a standard Water Jetting Unit, a shaft pump or a nozzle, Airblast has the Water Jetting Solution.

The Pump Range

Our range of pumps operate at pressures from 70 to 2750 bar (1,000 to 40,000 psi) and flow rates to 773 lpm (170 igpm / 205 usgpm) with ratings from 30 to 375 kW (40 to 500 hp).

The pumps are ruggedly constructed and produced in nine frame sizes, each including a range of plunger sizes. This allows selection of the ideal pump for the job.

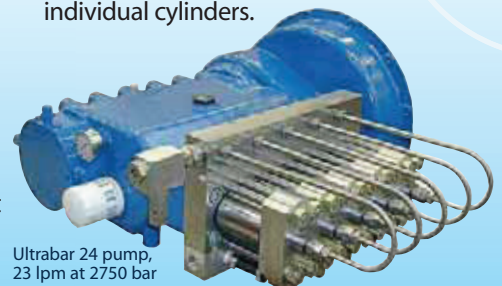
Close-coupled reduction gearbox drives are available, with a choice of gear ratio to suit most prime mover speeds. Also available are SAE engine adaptor housings allowing the pumps to be flange mounted to diesel engines, ensuring perfect alignment and making installation simple.

The power end of the pump features cast iron casings with splash or pressure

lubrication and oil cooling, according to the application.

Pump heads are manufactured from stainless steel as standard. The in-line valve arrangement prevents the adverse effects of cyclic stress within the head block, while allowing all working components to be easily removed on site for service. Solid ceramic plungers extend the life of the self adjusting plunger seals.

The Ultrabar range of UHP pumps include design features that allows seals and valves to be monitored without tools and maintenance on individual cylinders.



Ultrabar 24 pump, 23 lpm at 2750 bar

Main cover picture : Coatings removal at 2750 bar for weld inspection

Water Jetting Units

Skid, site or road trailer and truck mounted units are available with or without sound reduction enclosures, driven by a choice of diesel engines or electric motors for use in safe or hazardous areas (ATEX compliant where required). All fabrications are grit blasted and high quality powder coated for a durable finish. For offshore applications fully certified crashframes or containers are available with paint finishes to customer specification.

Every unit manufactured by Airblast is robust, simple to operate and maintain, and designed for longevity. Diesel engines and electric motors are sourced from world leading manufacturers and comply with the latest international standards. Simple control panels are used



Ultra Bar 24 diesel road trailer. Same chassis used for any pressure / flow combination between 75 & 150 kW (100 & 200 hp)

throughout the product range avoiding the need for PLC systems, ensuring reliability & easy trouble shooting.

High capacity water filters and stainless steel suction line fittings are used as standard and boost pumps fitted for higher pressure applications. Shutdown switches are fitted where necessary to monitor various pump and prime mover functions.



Concrete cutting - 1000 bar



Heat exchanger cleaning - 800 bar



Robotic cleaning of skids at automotive plant - 900 bar.

Typical Applications

- Heat exchanger tube cleaning
- Water & abrasive blasting
- Surface preparation (coatings & corrosion removal)
- Pipe cleaning & de-scaling
- Tank & vessel cleaning
- Hydrodemolition
- Sub-sea cleaning & cutting
- Pressure Testing
- Cold cutting
- Floor, road & runway cleaning
- Road re-texturing & white line removal

Accessories

To complement the pump sets, a comprehensive range of water jetting accessories is available to cover every application:

- Hand held jetting guns - land and underwater
- Foot control valves
- Unloader and diverter valves
- Surface cleaning jets - pencil, fan and rotating
- Pipe and tube cleaning jets - fixed and rotating
- Heat exchanger cleaning - manual and automatic
- Tank cleaning heads
- Floor, road and runway cleaning
- Water abrasive blasting
- High pressure hoses, flexible and rigid lances



Worldwide Support

Backed by a comprehensive spares stockholding, we have dedicated Service Engineers who travel nationally and internationally keeping our pumps running round the clock. We also work closely with our overseas agents who have been trained in the selection, operation and maintenance of our product range ensuring they can provide the vital after sales service demanded by today's fast moving industry.



Ultra Bar 10, ATEX compliant Zone 2 unit, 8 lpm at 2100 bar

Water Jetting Pumps Overview



Model	Power		Rating			bar	psi
	kW	hp	lpm	igpm	usgpm		
HPS400 (40)	27	36	87	19.1	23.0	510	7400
HPS400 (45)	30	40	97	21.3	25.7	510	7400
HPS650 (40)	43	57	87	19.1	23.0	815	11820
HPS650 (45)	48	65	97	21.3	25.7	815	11820
HPS850	63	85	162	35.6	42.9	645	9350
HPS1000	75	100	177	38.9	46.9	1000	14500
HPS1500	112	150	295	64.9	78.2	1000	14500
HPS2000	105	140	206	45.3	54.6	1000	14500
HPS1600	160	215	228	50.2	60.4	1400	20000
HPS3000	225	300	464	102.0	123.0	1400	20000
HPS5000	375	500	773	170.0	205.0	1400	20000
Ultrabar 10	48	65	9.8	2.2	2.6	2600	38000
Ultrabar 15	71	95	13.8	3.0	3.7	2750	40000
Ultrabar 24	117	157	23.0	5.0	6.1	2750	40000
Ultrabar 40	208	280	40.7	8.9	10.8	2750	40000
Ultrabar 68	347	465	67.9	14.9	18.0	2750	40000

The data above is a summary of performances for the pump range. The Ultrabar range of pumps are only offered with one plunger size so flow and pressures shown are possible together. The other pumps are offered with a range of plunger sizes. Shown above is a summary of extreme flow and pressure options for each pump, not possible together. Maximum flow is achieved by using the largest plungers and maximum pressure is achieved by using the smallest plungers. All figures are nominal. For precise options refer to individual data sheets.



Airblast B.V.
P.O. Box 1075 1700 BB Heerhugowaard The Netherlands
Tel: +31 (72) 5718002 Fax: +31 (72) 5714340
www.airblast.com info@airblast.com