HIGH PRESSURE AND CENTRIFUGAL PUMP SPECIALIST

AWE

ASIA WATERJET EQUIPMENT















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ASIA WATERJET EQUIPMENT



“ We’re here to help you protect and perform. ”

Asia Waterjet Equipment was formed out of a passion for solving problems in challenging environments whether they be hazardous areas, difficult to clean applications or difficult to pump product.

Our mission today is to bring safer and more efficient solutions to the markets we serve in the Middle East and Asia. From our headquarters in Dubai and via our base in Singapore, we have built 800 of the most robust water-jetting and centrifugal pump packages in the region. Renowned for our flexibility, reliability and support AWE continues to be a leader in our field.

We are also proud to be partners with some of the leaders of their industry segment, all of which are included in this brochure. Our vision is to bring the best technology available that improves safety and brings more productive solutions than conventional methods and blend it with our knowledge and support in the local markets we serve. We understand being close to the customer matters and we aim to be there when you need us.

As the technology in our industries and our partnerships continue to evolve, our values, at the core of how we operate, remains the same. We understand that our reputation is built on how we perform, and we will not stop improving how we operate, to serve our customers.

Delivering all this to you is a team of professionals with a depth of industry knowledge and functional expertise and importantly, local market presence. We thrive on challenges and are motivated by excellence in what we do. **We're here to help you protect and perform.**

Sam Norris
Managing Director

Values

The way we work as a team, a partner, a supplier or customer, defines who AWE is in the market and industry. The importance of values to our business and interactions is as important as the liquid in our industry – Water!

World Class Customer Service

We understand that the customer is the reason we exist. Excellence in customer service is at the forefront of our decision making process.
We bring value to our customers and will be known as the best in the industry.

Accountability and Reliability

When we say something, we commit to it, and deliver. We are fanatical about execution excellence. We make ourselves available to provide solutions and are the trusted partner to deliver them.

Team Spirit

We respect differences, embrace diversity and collaborate. We create a culture where people have the opportunity to share ideas, challenge themselves and grow. We recognize the importance of open communication with our clients, partners and within our team to build trust.

Expertise

With both the depth of product knowledge and the understanding of the local market landscape we are regarded highly as the professionals in our industry. That brings with it a duty to share our experience and knowledge of the best solutions and conquer the toughest of challenges.

Right Thing Right Way

Integrity underpins everything we do. As we grow our team, our business and geographical presence, we will always do it in an ethical way. We pride ourselves in doing business in an honest, fair and transparent manner.





ASIA WATERJET EQUIPMENT

Your High Pressure and Centrifugal Pump Partners



Asia Waterjet Equipment is the largest supplier of high and ultra high pressure water pumps, hydroblasting equipment and centrifugal pumps, in the Middle East and South East Asia.

Headquartered in Dubai and supported by a second office in Singapore, covering all of South East Asia.

Since our early days in 1990, AWE has established a reputation for quality and excellence that few can rival. Being pump-proficient is the foundation of our business.

Driven by a commitment to source new and innovative products, our insight and knowledge is demonstrated through our responsibility to provide our clients with the very best tools for their job and innovate products which offer commercial and competitive benefits, keeping you, one step ahead.

Asia Waterjet Equipment's Dubai headquarters houses the central assembly facility, with highly skilled technicians ready to package and build waterblasting units and pumpsets with tools, equipment and accessories as required by the client.



Why Choose Asia Waterjet Equipment?

SPECIALISED :

With our in-depth industry knowledge and our expansive product portfolio, Asia Waterjet Equipment is your single source for all ultra high pressure pump and centrifugal pump requisites.

LOCALISED :

With offices in Singapore, Dubai and presence across the Middle East and South East Asia, we have sales managers on-hand ready to help. This means we can offer prompt response times, express spare-parts delivery and swift lead times.

CUSTOMISED

Each pumpset is customised to your specification. More than just engine size, crash-frames, canopies and trailers, our pumps can be hazardous area and ATEX Zone certified.



Engineer

Translate your requirements into technical drawings, manage the production, assemble the various elements and ensure quality control.

Accessories

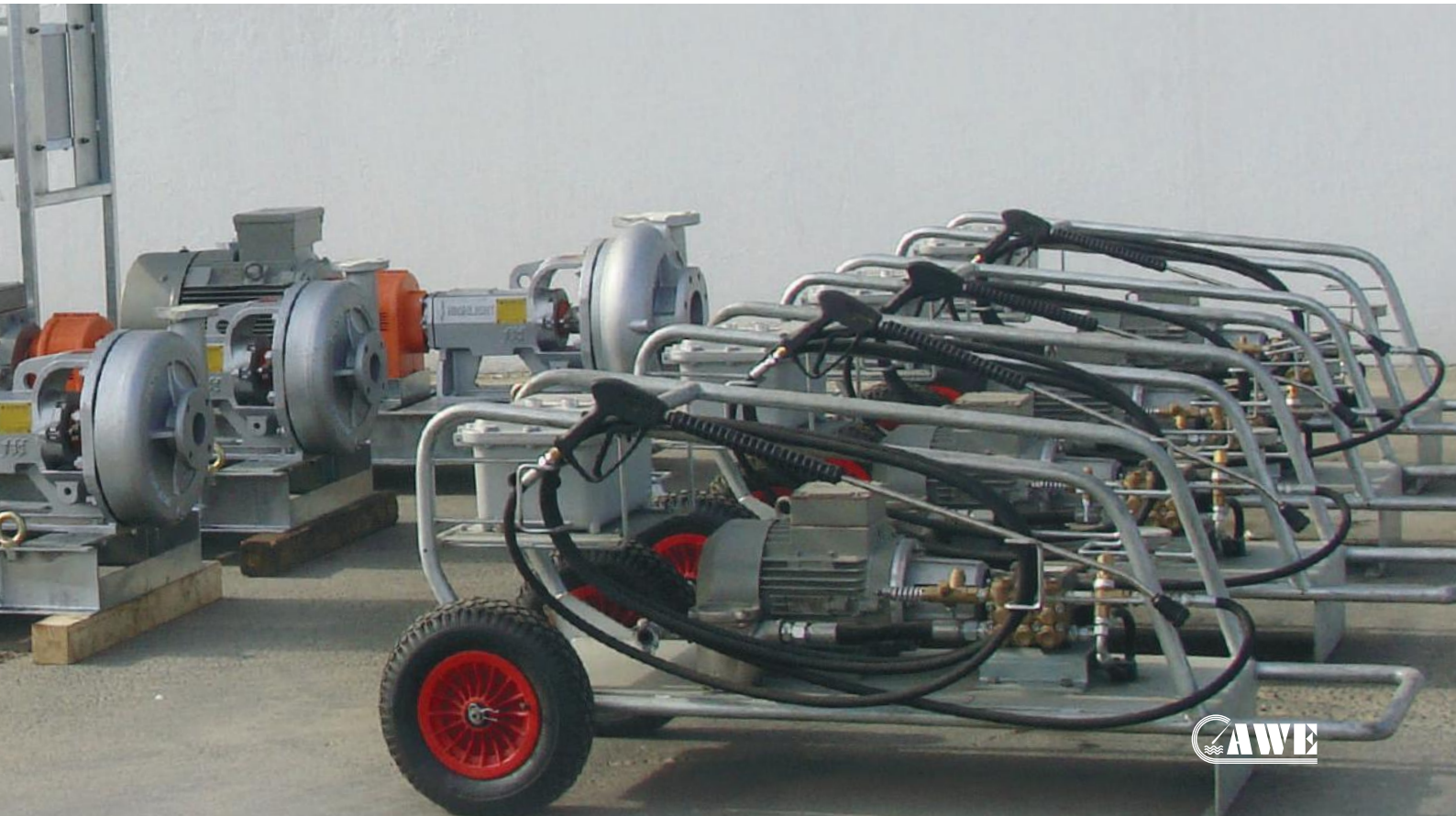
A full range of spare parts and accessories can be ordered through AWE.

Unit Options

Both our diesel and electric formats have customisable unit options include; trailer, canopy, or skid-mounted.

Commissioning

Free basic training of pump operation & commissioning assistance is provided with every unit purchased.



WHY CHOOSE US ?



MODULAR OPTIONS

- LIFTING FRAME
- TRAILER
- TRAILER WITH LIFTING FRAME
- CANOPY
- SOUND ATTENUATED
- CONTAINERIZED
- DNV CERTIFIED FRAME

COMPACT DESIGN

- LIGHTER IN WEIGHT
- SPACE SAVING DIESEL TANK
- SMALL FOOTPRINT



VERSATILITY

EASILY UPGRADEABLE TO COMPLY WITH SITE CONDITIONS

- CHALWYN VALVE
- SPARK ARRESTORS

MEETS ENVIRONMENT CONDITIONS

- WITH 55°C AMBIENT TEMPERATURES ENGINE COOLING PACKAGE
- FULL ENGINE RANGE TO MEET LOCAL LEGISLATION - MECHANICAL TL4

DURABILITY

FOLDED SHEET DESIGN FOR ADDED STRENGTH

Waterjet Cutting - Abrasive Mixing System

Entraining abrasive particles such as copper slag or crushed garnet into a high pressure water jet can produce a very powerful cutting, or abrasive blasting tool suitable for use in hazardous environments where flammable gasses may be present.

The cutting tool can easily slice through more than 300 MM of steel, and has been used extensively throughout the region for pipe, tank, and vessel cutting. It was also used to cut off damaged sections of casing, and damaged well heads during firefighting operations in Kuwait in 1991.

The FEDCO system, manufactured by AWE, works well for underwater applications, and has been used on many contracts in the North Sea during decommissioning of offshore platforms. It can both cut and blast steel above and below water.

Cold cutting can be achieved at water jet pressures between 10,000 PSI (690 BAR) and 20,000 PSI (1380 BAR). Wet abrasive blasting can be achieved at water jet pressures between 5,000 (350 BAR) and 20,000psi (1,380 BAR)



Electric Multi Gun Distribution Module

The AWE designed Remote Multi Gun Distribution Module is a unique accessory that allows the operator to run up to three high pressure guns from the same machine without the need to have heavy Tumble Boxes/Multi-modules 6-7 meters away from the operator.

The Distribution Module stays by the machine, meaning the water no longer needs to be dumped near the operator. Perfect for use in drydocks and enclosed spaces such as tanks, the module removes the requirement for a Multi-Mode/Tumble Box during UHP blasting operations without impacting on the users independence. The system pumps all excess hot dump water at the module making it ideal for work in confined spaces such as tanks, areas with restricted access and at height in Cherry Pickers or on scaffolding. The system is used in conjunction with the lightweight AWE Electric Gun which operates a unique coded signaling system with the module to safeguard against involuntary usage.

Guns are supplied with the Electric Multi Gun Distribution Module, which are lighter in weight making it convenient for the operator.





High Pressure Waterjetting Units

Our waterjetting machines are impressively innovative whilst remaining invariably simple. Comprised of a modest 37 parts in the fluid end, our Jetstream pumps are reliable and easily serviceable on site.

AWE's Jetstream pumps are dynamic by design and can be quickly converted between low flow/ultra high pressure and low pressure/high flow performances.

With 15k, 20k, & 40k PSI fluid end options, the pressure conversion can be completed in around 30 minutes, maximising its utilisation and making ours, the most cost effective solution available on the market.

Customised base options are available including skid, canopy and trailer and can be containerised on request.





Versatility

- 30 minute pressure conversion; switch from 300BAR to 2750BAR.
- Bolt-on fluid ends - 8 manifold bolts.

Simplicity

- Fluid End containing only 37parts.
- One piece cartridge including suction, discharge, seat & springs.
- No need for special tools.

Serviceability

- Packing change in just 5 minutes.
- 15 minute pop-out cartridge valve change.
- No mechanical skills needed.
- No torque wrench required

3000 Series

15k Fluid End

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
125HP	11	550	8000	88	23.2
	10	690	10000	69	18.4
150HP	11	690	10,000	88	23.3

15k Fluid End

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
125HP	9	860	12500	56	14.9
	8	1035	15000	45	11.8
150HP	10	860	12500	69	18.4
	9	1035	15000	57	14.9

20k Fluid End

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
125HP	8A	1380	20000	42	11
150HP	8A	1200	17500	42	11.2
	7	1380	20000	34	9

3600 Series

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
175HP	16	330	4750	209	55.1
	15	415	6000	168	44.5
	13	520	7500	133	35.2
	12	650	9500	108	28.5

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
175HP	11	760	11000	91	23.9
	10	1000	14500	72	19
	9	1035	15000	61	16

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
175HP	9	1140	16500	61	16
	8	1380	20000	48	12.6

4200 Series

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
220HP	16	350	5075	234	61.7
	15	450	6000	189	49.8
	13	550	8000	149	39.5
	12	690	10000	121	32.1
260HP	16	450	6500	234	61.7
	15	550	8000	190	50.1
	13	690	10000	149	39.5
300HP	16	500	7250	234	61.7
	15	650	9500	190	50.1
350HP	16	550	8000	234	61.7
	15	690	10000	190	50.1

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
220HP	11	800	11600	101	26.8
	10	1035	15000	81	21.3
260HP	12	860	12500	121	32.1
	11	1035	15000	102	26.9
300HP	13	800	11600	149	39.4
	12	1035	15000	121	32.1
350HP	13	860	12500	150	39.7
	12	1035	15000	121	32.1

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
220HP	10	1000	15000	81	21.4
	9	1250	18000	62	16.4
	8	1380	20000	54	14.3
260HP	11	1100	16000	95	25.1
	10	1310	19000	81	21.4
	9	1380	20000	68	18
300HP	10	1400	20000	80	21.2
350HP	11	1400	20000	95	25.1

6000 Series

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
540HP	22	550	8000	374	98.7
600HP	21	550	8000	435	114.9

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
540HP	19	690	10,000	300	79.3
	16	965	14,000	208	54.9
	15	1000	14,500	200	52.8

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
600HP	13	1380	20,000	174	45.9

**Flow values represented refer to "theoretical" flow, neglecting inefficiency resulting compressibility of water and expansion of pressure- bearing components.

Performance Chart

40k Fluid End

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
125HP	5	2500	36000	19.5	5.2
150HP	6	25	36000	23	6
	5	2750	40000	19.5	5.2

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
175HP	8	1720	25000	40	10.5
	7	2070	30000	34	8.9
	6	2620	38000	27	7.1

	Plunger Number	Pressure		Flow	
		BAR	PSI	LPM	USGPM
220HP	8HF	1500	23000	53	14
	8	1850	27000	45	11.9
	7	2200	34000	38	10
	6	2750	40000	30	8
260HP	9	1600	23500	63	16.8
	8HF	2000	30000	53	14
	8	2350	34000	45	11.9
	7	2750	40000	38	10
300HP	9	1850	27000	63	16.8
	8HF	2350	34000	53	14
	8	2750	40000	45	11.9
350HP	9	2000	30000	63	16.8
	8HF	2500	36000	53	14
	8	2750	40000	45	11.9



Skid

- Folded steel skid with bounding to capture spilt liquids
- Forklift slots for easy placement
- Mounting points for installation of lifting frames/canopy
- DNV certified crash frames can be accommodated



Electric

- Can be approved for use in Zone 1 & 2 Hazardous Areas
- 75kw to 260kw
- Voltage and cycles to suit



Diesel

- Upto 55°C Tropical spec engine radiator
- 125HP to 600HP
- Mechanical Volvo. Cummins & Deutz engines
- Tier 1,2 & 3 options
- Optional ATEX certification



Canopy / Container

- Unsilenced
- Sound attenuation on request
- Four corner lifting eyes for easy placement

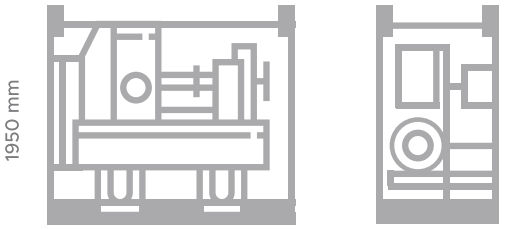


Trailer

- Easily maneuverable
- Full road-worthy trailer with hydraulic over run braking system (off highway use)
- Site trolley format with a fixed rear axle & pivoting front axle.

3000 Series

Up to 40,000 psi
Convertible Waterjet System
100hp, 125hp and 150hp

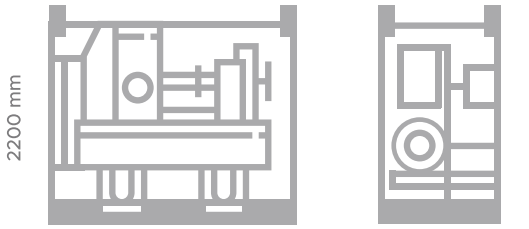


Weight : 2400 Kg

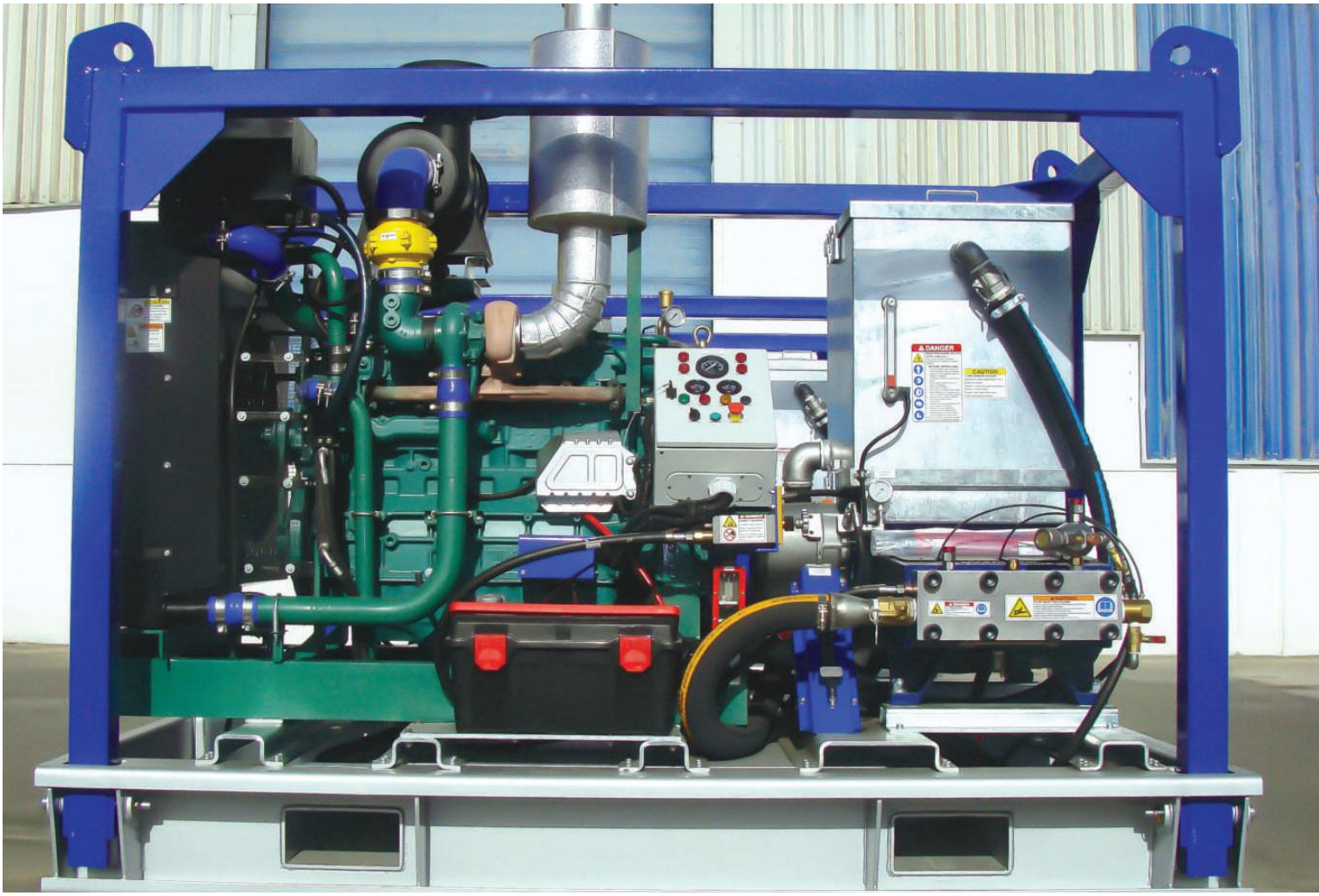


3600 Series

Up to 40,000 psi
Convertible Waterjet System
175hp up to 260hp

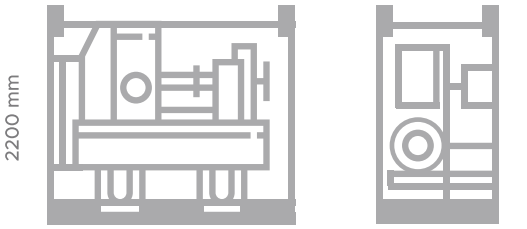


Weight : 3300 Kg



4200 Series

Up to 40,000 psi
Convertible Waterjet System
220hp, 260hp, 300hp and 350hp

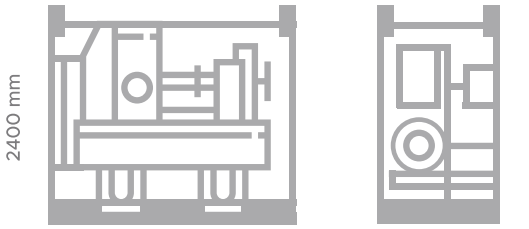


Weight : 3800 Kg

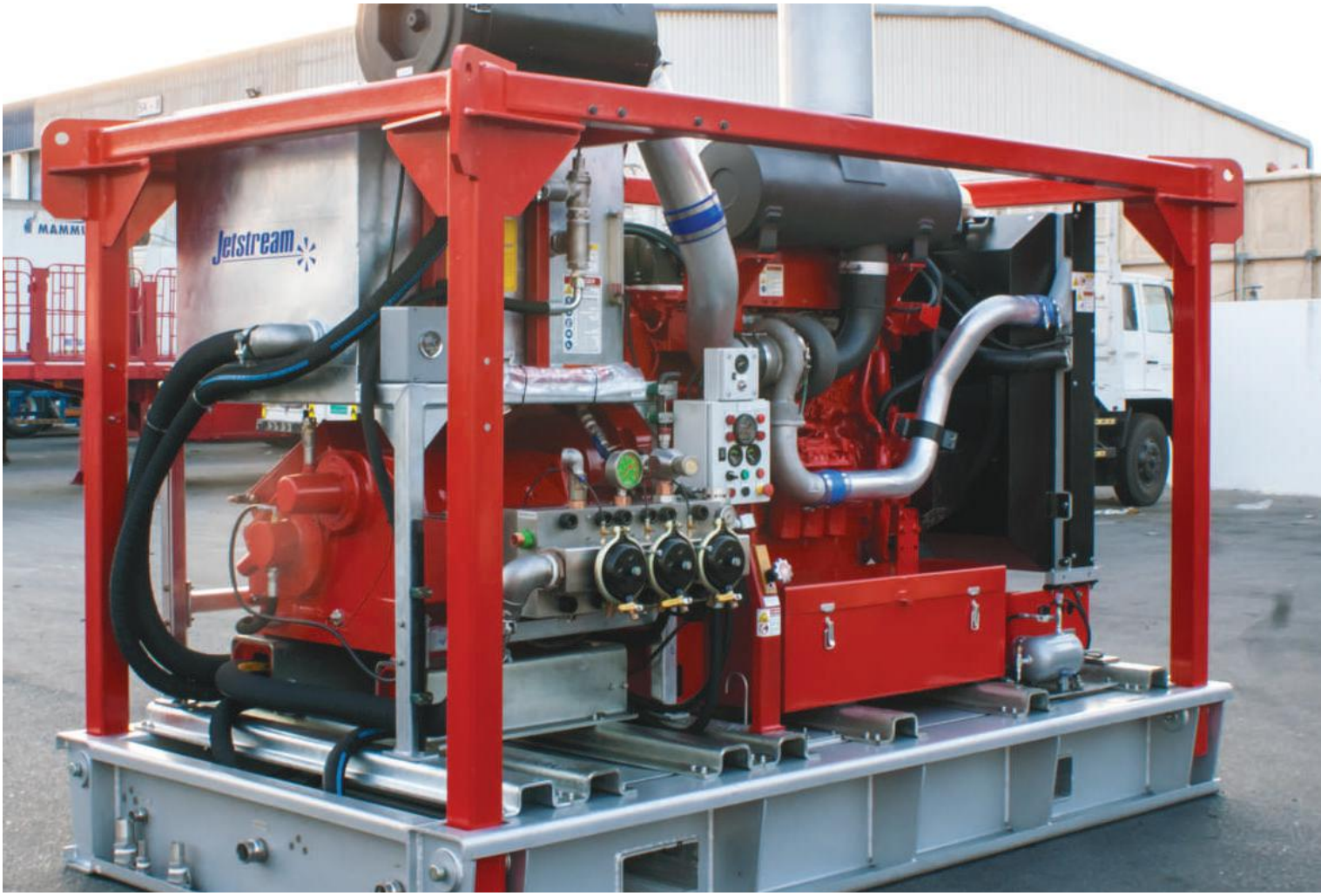


6000 Series

Up to 20,000 psi
Convertible Waterjet System
540hp and 600hp



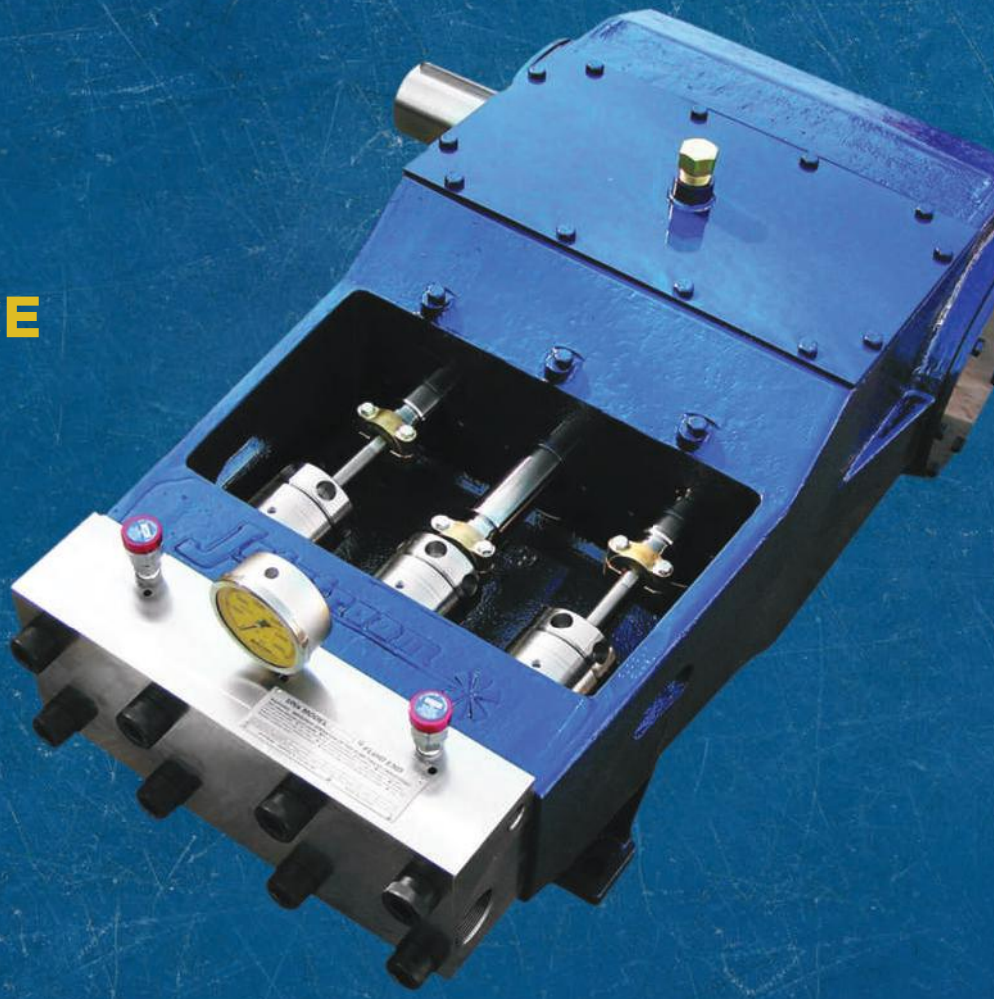
Weight : 5000 Kg



BARESHAFT PUMP

SUPERIOR
PERFORMANCE

UNRIVALED
DURABILITY
AND
STRENGTH



VERSATILITY

- Fast in-the-field pressure range conversion with simple bolt-on Jetstream UNx fluid ends
- Convertibility of the UNx design allows one unit to do the work that another manufacturer would require mutiple units or several hours of downtime to perform.

Jetstream
Subsidiary of Federal Signal Corporation

SERVICEABILITY

- Reduced downtime and maintenance.
- 5 minute packing change
- 15 minute pop-out valve cartridge change
- Plungers clamped, not threaded.
- No special tools or equipment required.

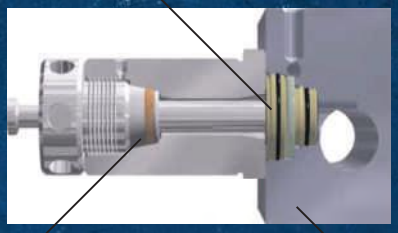
COMES COMPLETE WITH A
UNX FLUID END

SIMPLICITY

- Fewer parts than other 40,000 psi fluid ends.
- Uni-valve one-piece cartridges include suction and discharge valves, seats, springs and seals.
- Swing-down manifold for easy access to components.

Uni-Valve™ Cartridge

UNx® Design



Uni-Pac™ Plunger Packing Set

Swing Down Manifold

The Jetstream UNx Bareshaft pump provides unrivalled durability and strength.

The pump is capable of power inputs from 325hp to 600hp between 15,000psi, 20,000psi and 40,000 psi models.

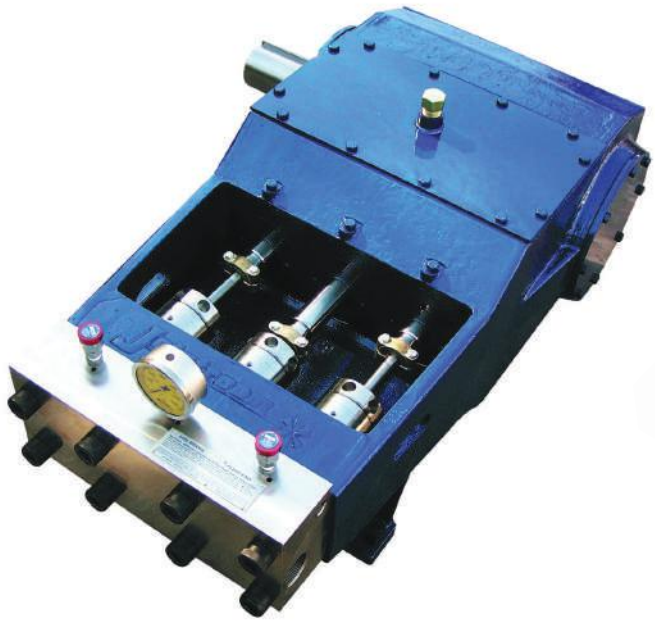
Jetstream pumps are the best choice for those building their own system or replacing a complicated, worn or unreliable pump.

GAWE

Jetstream
Core Components

The UNx Bareshaft Pump is easily the most robust pump of its kind. The pump is capable of power inputs of up to 600 horsepower, with flow rates up to 435 lpm.

It provides durability and strength that you will only experience with Jetstream. Made from ductile iron, the power frame of the UNx Bareshaft is the strongest in the industry, meeting and exceeding the heavy duty demands of continuous operation. External gear boxes provide effortless power transmission direct coupling to the engine, in a variety of ratios to suit any engine. Exceptional design and unique engineering, leaves the Jetstream pump unparalleled amongst its rivals. Each pumpset features the patented UNx System; a set of interchangeable, bolt-on Fluid Ends. Once on-site, pressure conversion takes just 30 minutes by hand, minimizing downtime and allowing for a wide variety of applications to be executed during a single shift with a single waterblast unit.

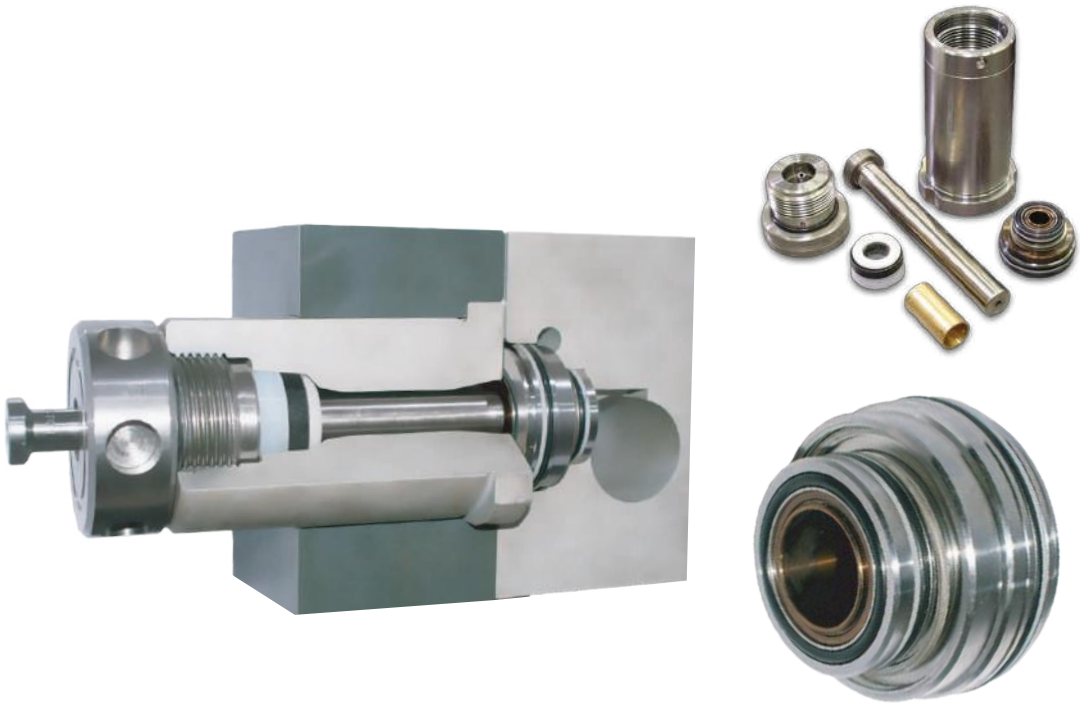




The Jetstream UNx Fluid End is 37 individual parts,
12 of which are consumable circa 500 hours of operation.

The facile design of the packing sets, plungers, and the valves, alleviates any confusion in fault finding, and prevents wrong installation. By the nature of its design, the surface area on either side of the Uni-Valve provides a pressure equilibrium with a hydraulic bias that renders the Fluid End self-torqued to the required value. The Uni-Valve's precocious engineered design coupled with the hydraulic bias, alleviates the need for any special tools whilst performing routine maintenance.

The UNx Fluid Ends are available in three stages: 15,000, 20,000 and 40,000 providing pressures ranging from 6,000 to 40,000psi.



High Pressure Industrial Waterjetting Solutions

The Jetstream product range is Asia Waterjet's primary focus. Jetstream provide a comprehensive range of innovative high-pressure industrial waterblasting solutions.

Amongst various accessories and equipment, it is their foremost product, the Jetstream Pump, that steals the spotlight as it boasts superior performance, a longstanding reputation for quality and an innate simplicity of use.

Having repeatedly raised industry standards with innovative concepts, Jetstream, hold operator safety at the forefront of their business model. The introduction of WJTA's revolutionary colour coded Visual Safety System has been endorsed by Jetstream in all their products and adopted by almost all suppliers to the Waterblasting industry.

As the dominant force in waterblasting pumps, Jetstream is the natural choice for most, and when packaged by Asia Waterjet, can be tailored to support all your requirements.

Spare Parts Packages

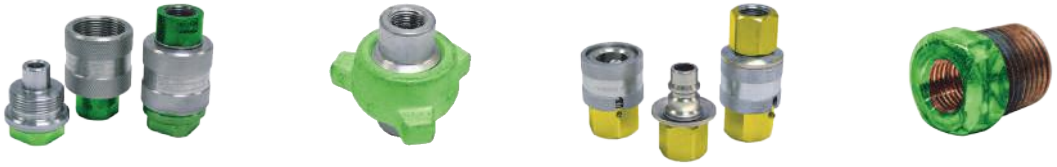
Each Spare Part Package includes all major fluid end replacement packaged together for easy transport and storage.

Packages include three plungers, three Uni-Valves, three packing sets, three Uni-Valve seal kits, and ten burst discs all placed in a waterproof case with keys.



Waterjetting Accessories

Fitting Accessories



Control Guns



Cleaning tools & Nozzles





Advanced Protective Equipment for Ultra High Pressure Waterjetting


TST
SAVING LIVES
TST
AWE

PROTECTION
UPTO
3000 BAR
43,500 PSI

THE ONLY
WATERJET PROTECTING HELMET
IN THE WORLD,
INCLUDING
VISOR AND EAR DEFENDERS

MADE WITH A SPECIAL
FABRIC CONTAINING
DYNEEMA FIBER
MAKING IT 15 TIMES
STRONGER THAN STEEL

MARTINDALE
TEST APPROVED

MADE FOR VARIOUS
ENVIRONMENTS

EASY IDENTIFICATION OF
PROTECTED AREAS

STRONGER OUTER MATERIAL
FOR WEAR RESISTANCE PROTECTION



SELECTED SUIT COLLECTIONS
FOR DIFFERENT NEEDS



SAVING LIVES

CAN BE USED FOR
DIFFERENT
TYPE OF
APPLICATIONS

TST STRIPED FABRIC
HAS A RATING OF
300,000
AND THE HD FABRIC
HAS OVER
500,000
VERY STRONG AND
DURABLE MATERIAL

50% STRONGER
AGAINST ABRASION
AND TEARING

THE HIGHER THE PROTECTION RATING,
THE
MORE RESISTANT
THE MATERIAL IS
TO ABRASION AND HEAVY USAGE

ELASTIC BANDS,
GOOD VENTILATION
AND ADJUSTABLE STRAPS FOR
PERFECT FIT AND COMFORT!

ALL PRODUCTS ARE
CE CERTIFIED
INCLUDING ROTOR
AND NOZZLE

AWE



TST Advanced Protective Equipment

TST specialise in the design and manufacture of a wide range of protective equipment. TST's protective clothing is CE certified, and is ideal for high pressure waterblast operators for the protection against accidental waterjet impact, chemical protection suits, and those working in high temperature environments such as steel mills, foundries, and firefighters for protection against extreme heat.

The full range of the PPE manufactured by TST is made from Dyneema, which is the worlds strongest fibre (15 times stronger than steel on a weight to weight basis). Dyneema makes it possible to offer high levels of protection against waterjetting hazards, even with a lightweight fabric.

SAVING LIVES



Personal Protective Equipment with Technically Advanced Features and High Level of Comfort

Being made from fabric much thinner, more lightweight and flexible than traditional materials such as leather, cottons and metals; TST's garments offer a superior level of quality and comfort for operators in the field.

All of TST's garments are tested and certified in accordance with the latest guidance. New outer material in a three layer laminate withstands water and dirt more effectively. This keeps the operator dryer and is lightweight & easy to clean. As well as advanced fibre technologies, a full range of safety and comfort features have been incorporated into the design of all garments.

Clearly labelled Visual Safety System colourcoded patches are sewn into the garments to enable quick and correct selection of protection level. The striped areas of the fabric indicate which areas are protected and up to which rating. Such attention to detail is why TST Sweden remains the first choice for most operators.

TST's new collection has been carefully selected using 15 years of experience. To see more products within the TST range, visit our website or contact us for a full catalogue.





HEAD PROTECTION 20/30

All parts of the head protection are CE marked and the helmet meets SS-EN397:2012 requirements for industrial safety helmets. The interior is comfortable and can be adjusted to fit the operator, while the replaceable visor meets the SS-EN166:2001 requirements for eye protection. Hearing protectors are included and are certified to SS-EN 352-3:2002. These can be adjusted vertically and set in different positions against the head for operator comfort and optimal protection. A 3-point chin strap is supplied in the Head Protection kit.

- The Head Protection is made of Fiberglass Reinforced Polyamide
- Temperature range -30° to +150°
- Recommended life span 3-5 years



WSS
OPERATOR BOOTH

When the operator needs to be protected from water and potential ricochets during waterjetting, the Operator Booth provides a safe comfortable working environment. Withstands up to 3000 bar/43,500psi, 43lpm at stand off distance of 1.5m or 1100bar/16,000psi, 100lpm at stand-off distance of 2.3m.

The Operator Booth consists of an inflatable body which is dressed in an extremely durable TECHSTEEL cover. Thanks to the inflatable body, the Operator Booth is easily transportable and storable and can be fitted with an air-knife to help keep the window clean (compressor required).

Inflated measurements: approx. 1x1.7x2.1m / 3.3x5.6x6.9ft



CONCRETE HEAVY DEMOLITION
50% STRONGER AGAINST ABRASION AND TEARING

Outer material HD is extremely durable TECHSTEEL™ which is 50% more resistant against abrasion and tearing! Request for these qualities comes originally from the industry of concrete removal and demolition.

Striped (28/10) and glossy (30/20) fabric clearly identifies protected areas and the labels tell the level of protection. As high pressure cleaning can be very dangerous, it is essential that the operator knows what they are protected against.

Protection level	Pressure bar (psi)	Flow l/min (gpm)	Nozzles		RPM	Distance mm (in.)	Linear Speed m/s (in./sec)	Result
			n.	Dia. mm (in.)				
10/28	1000 (15000)	19.8 (5.2)	1	1.0 (.039)	-	75 (3)	0.5 (20)	No penetration
10/28	2800 (40000)	18.8 (5.0)	2	0.6 (.024)	3000	75 (3)	0.5 (20)	No penetration
20/30	2000 (30000)	17.9 (4.7)	1	0.8 (.031)	-	75 (3)	0.5 (20)	No penetration
20/30	3000 (43500)	19.5 (5.2)	2	0.6 (.024)	3000	75 (3)	0.5 (20)	No penetration



1
GAMMA COMPLETE KIT

The Gamma Kit includes:
- Trousers
- Jacket with integrated Hand Protection



2
ALFA COMPLETE KIT

The Alfa Kit includes:
- Waistcoat with Apron and Hand Protection

SAVING LIVES

3

SIGMA COMPLETE KIT

The Sigma Kit includes:
- Waistcoat
- Overall with integrated Hand Protection

PROTECTION LEVEL 10/28
SINGLE 1000 bar/15000 psi
ROTOR 2800 bar/40000 psi



PROTECTION LEVEL 20/30
SINGLE 2000 bar/30000 psi
ROTOR 3000 bar/43500 psi



4

DELTA COMPLETE KIT

The Delta Kit includes:
- Waistcoat
- Trousers
- Hand Protections

PROTECTION LEVEL 10/28
SINGLE 1000 bar/15000 psi
ROTOR 2800 bar/40000 psi



PROTECTION LEVEL 20/30
SINGLE 2000 bar/30000 psi
ROTOR 3000 bar/43500 psi







GAITERS

The Gaiters are to be worn over the user's regular protective boots. There are three clips and a hook & some loops in the rear. Also, it has an adjustable strap under the sole, which ensures that the Gaiters stay in place. We guarantee you that its comfortable and light to wear. Only in 20/30 protection level and its sold in pairs.



BOOTS 3000

Boots 3000 withstands "everything" within waterjetting on account of its fixed aluminium gaiters. The gaiters are moulded and jointed, which gives both excellent comfort and mobility.



PROTECTIVE GLOVES 500 BAR



Waterproof Gloves with protection for up to 500 bar pressure. The Gloves have a rough, sand patterned surface and the material itself provides lots of friction, all for the best grip. Separate inner gloves in nylon for good comfort. The Gloves have also been tested and classified with the highest values for cut protection and for abrasion, tear, and puncture. Outside is dipped in nitrile rubber. Shelf life up to 3 years. Certified in accordance with the CE directive. The Gloves do not withstand high pressure hydraulic fluid.
Supplied in 12-pack.

HOSE PROTECTION/SHROUD



When Hoses burst and couplings break, they often are very close to the operator and at sensitive areas of the body, such as the abdomen, the arm pit or the neck. These areas are difficult to protect properly. To further improve the safety of the operator, it is recommended to use a Hose Protection/ Shroud.

The Hose Protection is placed on the hose at the connection to the lance. Closest to the lance, where the hose is most likely to break, there is a 250 mm / 9.8 in. solid steel collar. This provides effective protection for the operator as it has been tested for 3000 bar / 43500 psi. An adjustable strap holds the Hose Protection/Shroud to the lance.
The Hose Protection/Shroud is smooth and flexible.



StoneAge High Pressure Water Blast Tools

StoneAge Tools Inc. are global leaders in the design and manufacture of high pressure waterblast tools and automated equipment. Their products have been in use by contractors and operators for three decades, and have been refined and enhanced year on year.



With a product range spanning pipe cleaning nozzles through to automated heat exchanger cleaning equipment StoneAge tools have been become an intrinsic part of any waterjetting company's arsenal.

StoneAge is based in Durango, Colorado in the USA, with a state of the art engineering & manufacturing facility with cutting edge in-house testing terminals allowing the dedicated engineering team to continue to push the boundaries of design.

By partnering with industrial cleaning contractors, StoneAge engineers have been able to gain a unique insight that guides the design of automated systems that increase safety and advance productivity for a wide variety of waterblasting applications.

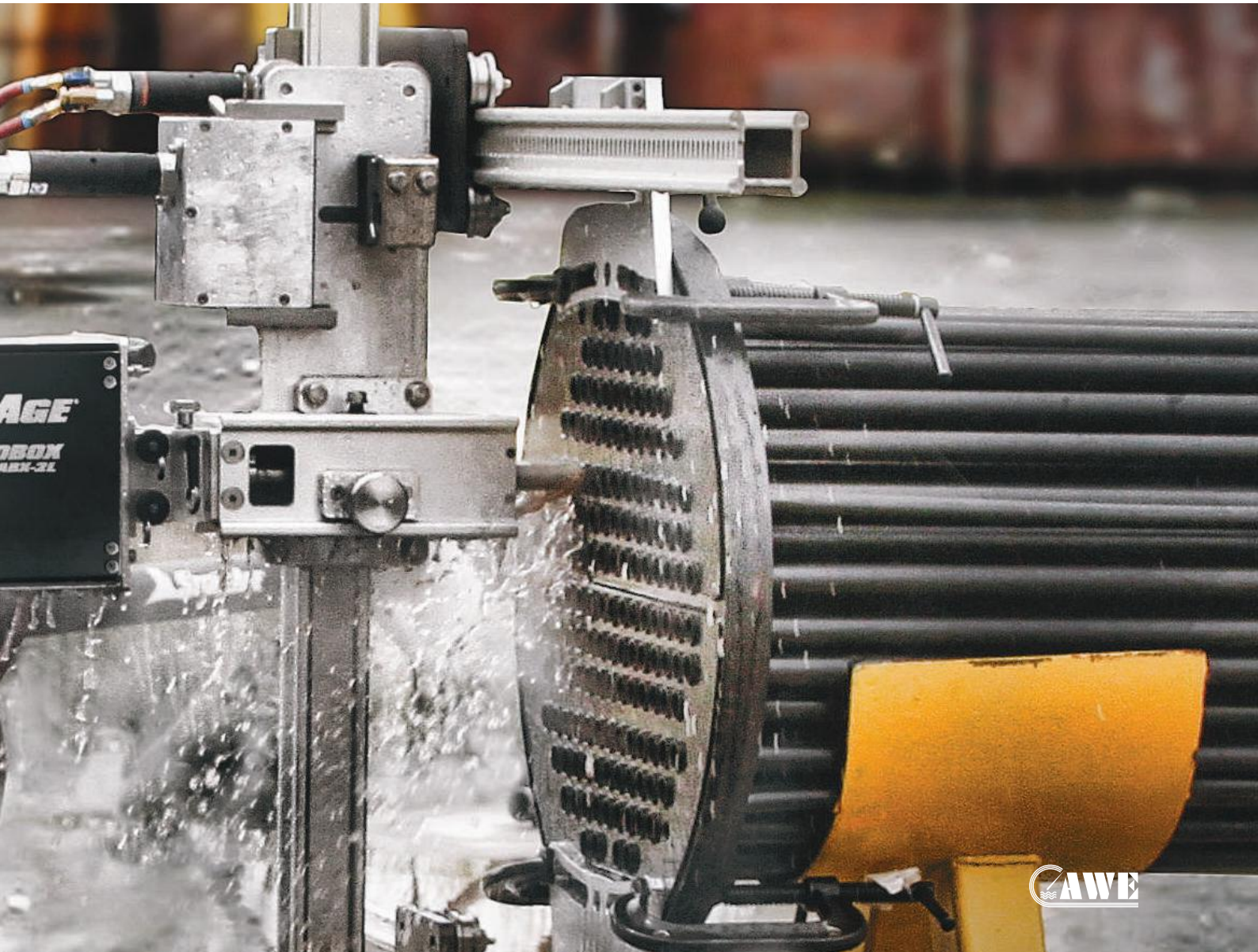
AutoBox ABX-2L

The StoneAge AutoBox ABX-2L is an automated two lance system for hands-free heat exchanger tube cleaning applications. It was designed to reliably control one or two flex lances with an emphasis on portability, ease of setup, and safety.

The ABX-2L can be used with any pressure rated hose ranging in size from 3/2 to 8/4. Paired with StoneAge Banshee rotary tube cleaning nozzles and Lightweight Positioner, the ABX-2L offers safe and efficient tube cleaning in the harshest environments.

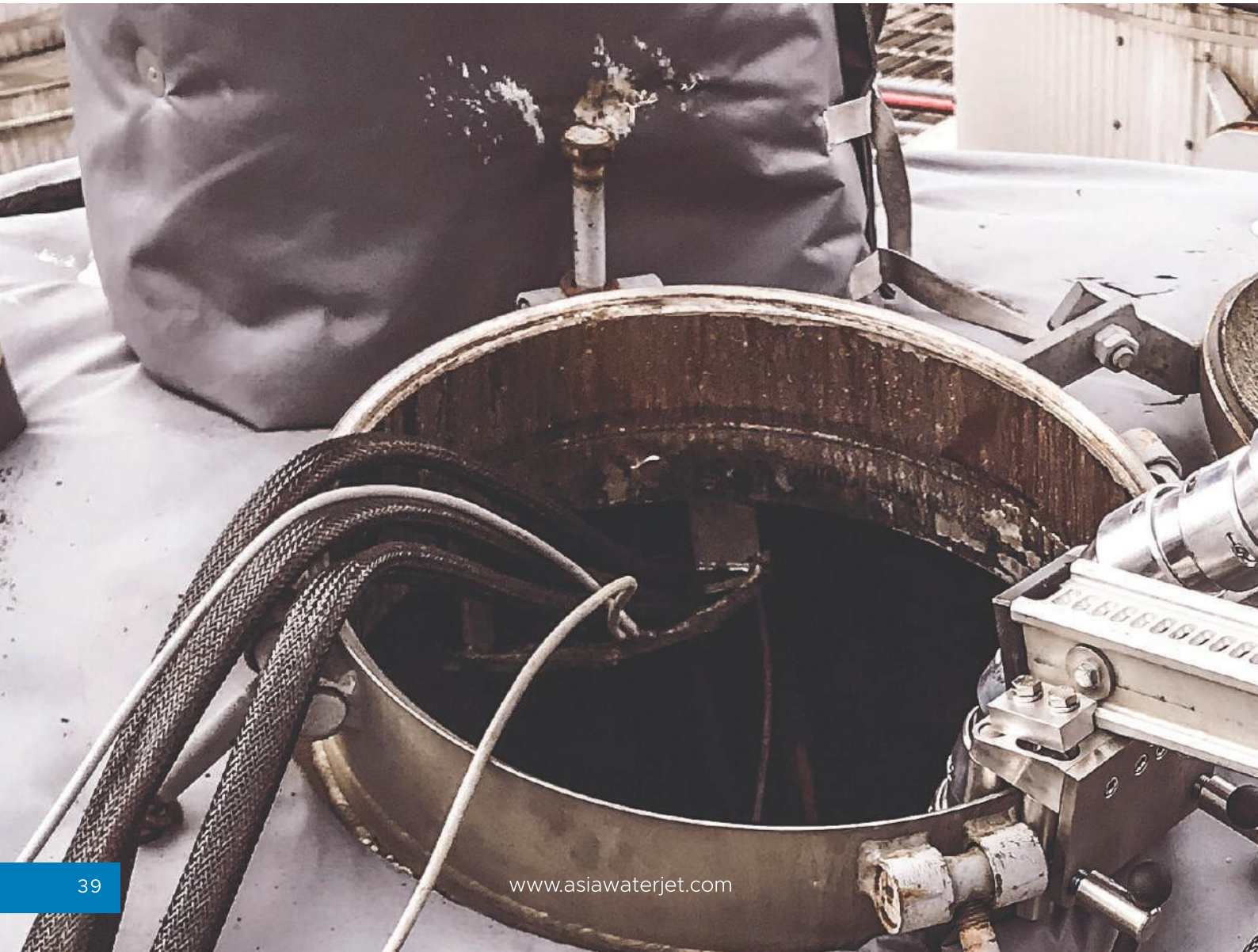



StoneAge®
AUTOBOX
ABX 2L
AMERICAN MADE



AutoBox ABX-3L

This automated systems for handsfree heat exchanger tube cleaning applications, can run single, dual and triple lance set up. The ABX-3L can be used with any pressure rated hose from 3/2 to 8/4, and when paired with a rotary nozzle such as the Banshee, can provide the most efficient cleaning in the harshest environments.




StoneAge®
AUTOBOX
ABX 3L

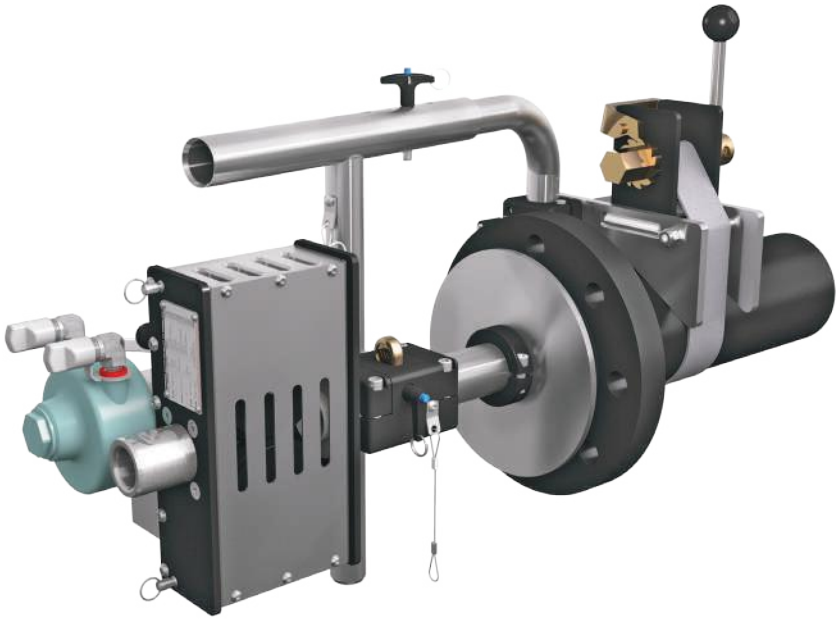

FASTER
StoneAge®
AUTOBOX
ABX-3L

AutoBox ABX-PRO

The AutoBox ABX-PRO is a hose feed tractor. This versatile device is designed with multiple mounting options and accessories to adapt it for a wide variety of pipe, drain and tube cleaning applications.
The ABX-PRO is the perfect tool for limited access applications and includes a lightweight control box for increased safety and mobility. This one system can be used for pipe and drain cleaning, heat exchanger cleaning, small process pipe cleaning and fin fan cleaning.



StoneAge







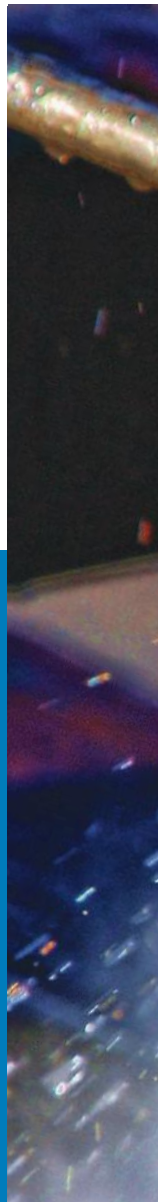
Banshee Tube Cleaning Nozzles

ROTARY CLEANING NOZZLES

Banshee Tube Cleaning Nozzles have become the industry standard for effective tube cleaning. The Banshee nozzles use high pressure water as a liquid bearing, thereby eliminating ball bearings, seals and lubricants.

Each tool can be easily configured with a variety of replaceable heads and inlet connections on swivels.





StoneAge





AWE

Badger Pipe Cleaning Nozzles

The Badger family are self rotating tools designed for cleaning pipes with bends and long radius elbows, with controlled rotation for efficiently cleaning larger pipes. Different jetting configurations allow for increased or decreased pull and forward hitting power.

Backout preventers are available to increase operator safety by keeping the tool from backing out of the pipe. Several options are available including fixtures for small diameter pipes, pipes with various flange bolt circle diameters, and adapters for pipes with no-flange entry.



StoneAge





Barracuda Self-rotary Tools

SELF-ROTARY CLEANING SHOTGUN

Barracuda self-rotary tools are the industry standard for rotary shotgunning. Excellent for irregular surfaces where an operator using a handheld tool can manoeuvre more efficiently. Also used on automated and handsfree equipment.

Barracuda allows you to cover a greater jetting area than a conventional nozzle increasing productivity.






STONEAGE
BARRACUDA





Kidextractor Bundle Extractors

Kidextractor SRL offers a wide range of Aerial Tube Bundle Extractors in standard sizes from 5 tons at 4 metre length right upto 100 tons at 12 metre length.

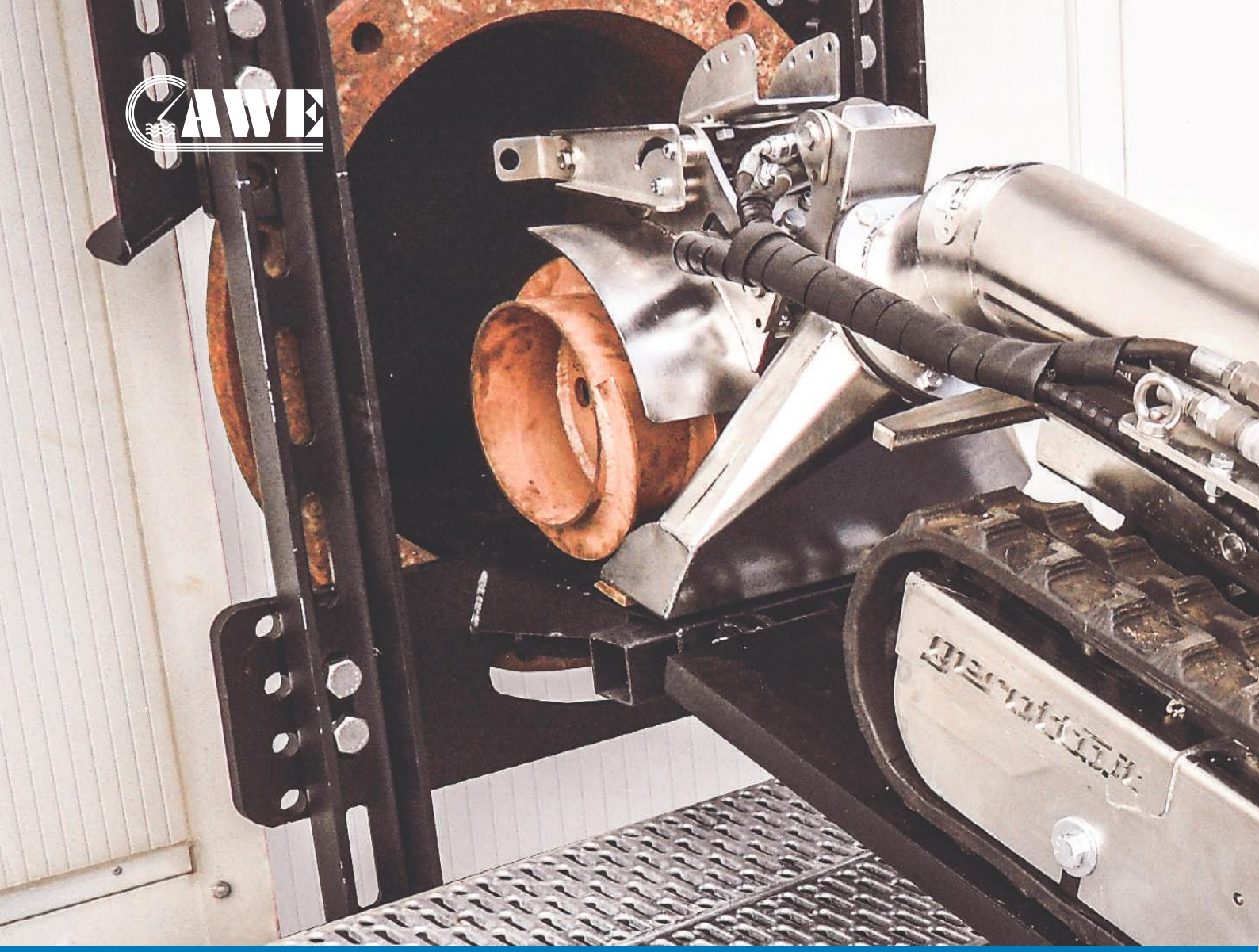
With various standard weight and length options in between, Kidextractor have the right Aerial Tube Bundle Extractor in their range for your application, without having to 'custom build'. Each Extractor is self contained and can be lifted into position by just one crane, making on-site installation simple and easy.

The diesel engine power unit can be modified to include a spark arrestor and/or a Chalwyn valve for additional safety in hazardous areas. Robustly built in Italy from quality materials using modern technology, Kidxtractors are strong, reliable and built to do the job.



Extractor for Heat Exchangers

Name	Length	Weight	Diameter
Kidpuller Junior 5 X 4	4,000 mm	5 tons	1,000 mm
Kidpuller Mini 10 X 5	5,000 mm	10 tons	1,000 mm
Kidextractor Midi 15 x 6	6,000 mm	15 tons	1,000 mm
Kidextractor Midi Extra 20 X 7	7,000 mm	20 tons	1,200 mm
Kidextractor Maxi 25 X 7	7,000 mm	25 tons	1,500 mm
Kidextractor Maxi Extra 35 X 8	8,000 mm	35 tons	2,000 mm
Kidextractor Mega 45 X 9	10,400 mm	45 tons	2,500 mm
Kidextractor Mega Extra 65 X 10	8,000 mm	65 tons	2,000 mm
Kidextractor Senior 80 X 10	10,000 mm	80 tons	3,200 mm
Kidextractor Senior Extra 100 X 12	12,000 mm	100 tons	3,500 mm



Gerotto Federico SRL: Tank Cleaning Robots

No Man Entry Radio-Controlled Tank Cleaning Mini-Robots

In a continued effort to minimise the entry of man in confined spaces during cleaning activities, GerottoFederico SRL has developed a new generation of remote radio controlled mini robots. These can be used for example, in underground tanks to disrupt compacted materials with the use of a front mill and extract the sediments using suction.




NO-MAN
ENTRY

Gerotto Lombrico

The Lombrico is a tracked, remote-controlled ROV equipped with a suction hose that is connected to the suction unit. It is composed of:

- complete stainless steel structure;
- two hydraulic driven rubber tracks;
- hydraulic manual manifold to control the movements of the robot;
- quick connection system to the external hydraulic source;
- video inspection system (optional).

The Lombrico was designed to aspirate every type of material obstructing sewer pipes, tunnels, tanks of different dimensions, mines and spaces under conveyor belts, together with Suction Excavators, Vacuum Trucks and Industrial Aspirators, with a suction diameter from 80 mm [3''] to 250 mm [10''].



Gerotto FTC

The FTC, fuel tank cleaning unit is an ATEX certified Zone Zero, remotely operated cleaning robot for underground fuel tanks at fuel filling stations/petrol kiosks.
Its compact size allows it to be easily transported and deployed by a small two man team, and lowered into underground tanks and operated by remote control, equipped with onboard cameras and lights and a large colour monitor with recording capabilities.
The FTC is equipped with a 360 three nozzle high pressure washing head which is capable of cleaning all internal surfaces and a vacuum tool to remove all bottom residue and washing liquid along with debris such as sand, rust and other foreign debris.
The system is complete with entry winch to lower and retrieve the robot, a power pack, umbilicals and wireless remote controller, complete with certification.





Gerotto Bull

The Gerotto Bull and Mini Bull are remotely operated under water cleaning robots, hydraulically powered tracked vehicles which can work submerged in sewage treatment plants, water purification plants, oil refinery lagoons, in settling ponds, cooling tower basins, in water inlets pontoons for power stations, in water reservoirs to mention a few applications. Fully stainless steel for work in hazardous areas and submerged in corrosive liquids, equipped with a pair of front mounted rotating brushes and a wide vacuum mouth complete with a heavy duty onboard submersible pump for cleaning and removal of sludge, sand, small stones, crude and debris up to 50 mm in size, with removal rates of 1,000 liters minute.
Complete with a silent running diesel hydraulic power pack and optional lights, camera and monitor with recording capabilities.



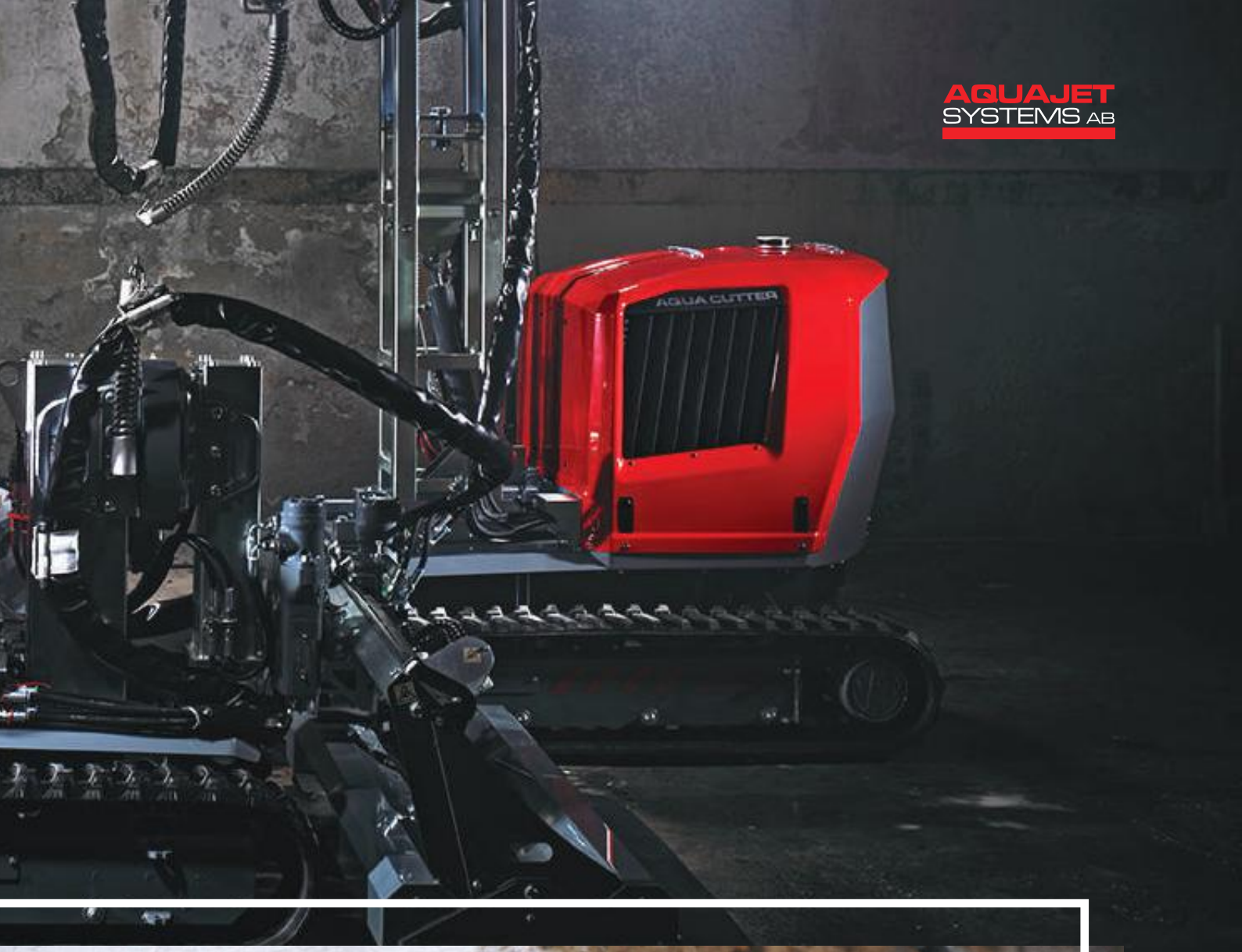


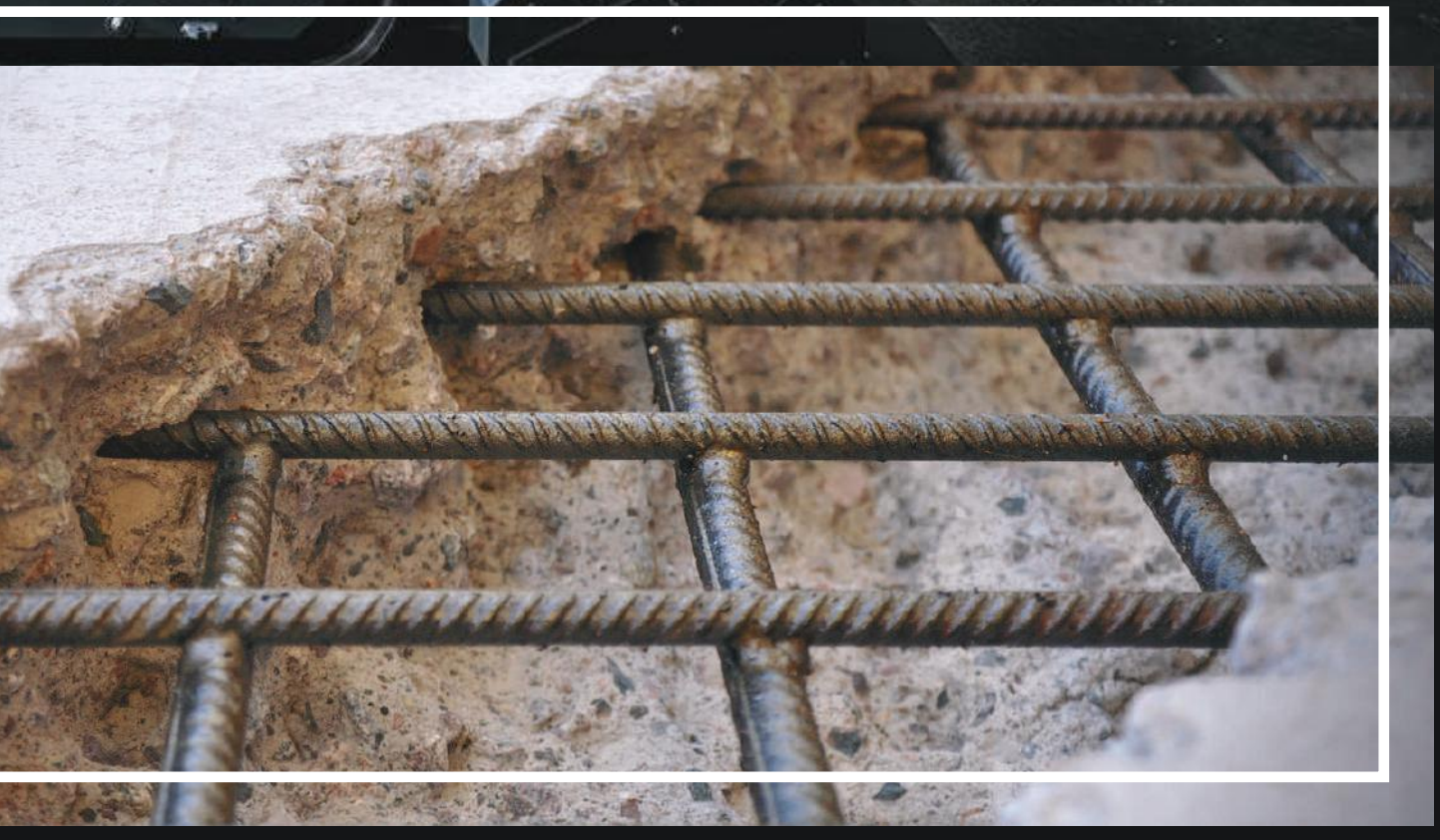


Efficient
Productive
Robust
Environment Friendly
Robotic Solutions



AQUAJET
SYSTEMS AB





upto
800
SQ. FEET
PER HOUR

25X FASTER
THAN HAND HELD
JACKHAMMERS AND
10dB QUIETER



VIRTUALLY
ELIMINATE
SILICA DUST
EXPOSURE

UPTO 3X
EXTENDED
LIFE
CONCRETE REPAIRS

NO MICRO
FRACTURING

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AQUAJET SYSTEMS AB

TOTAL CONTROL upto
40,000psi
FOR ANY DEPTH



30%
LABOUR
SAVING

SUPERIOR SURFACE BONDING
CLEANS AND DESCALES
REBAR IN ONE PASS

AWE



Aquajet Systems: Hydrodemolition Robots

Hydrodemolition Equipment for removing deteriorated and damaged concrete

Aquajet Systems is the leading force in Hydrodemolition technology across the globe. Their Aqua Cutters are the most advanced on the market with an extensive range of features to boot.

The entire range of equipment from Aquajet have been designed specifically for the purpose intended, and have repeatedly exceeded our customers high expectations on efficiency, function, productivity and reliability.



AQUAJET SYSTEMS AB

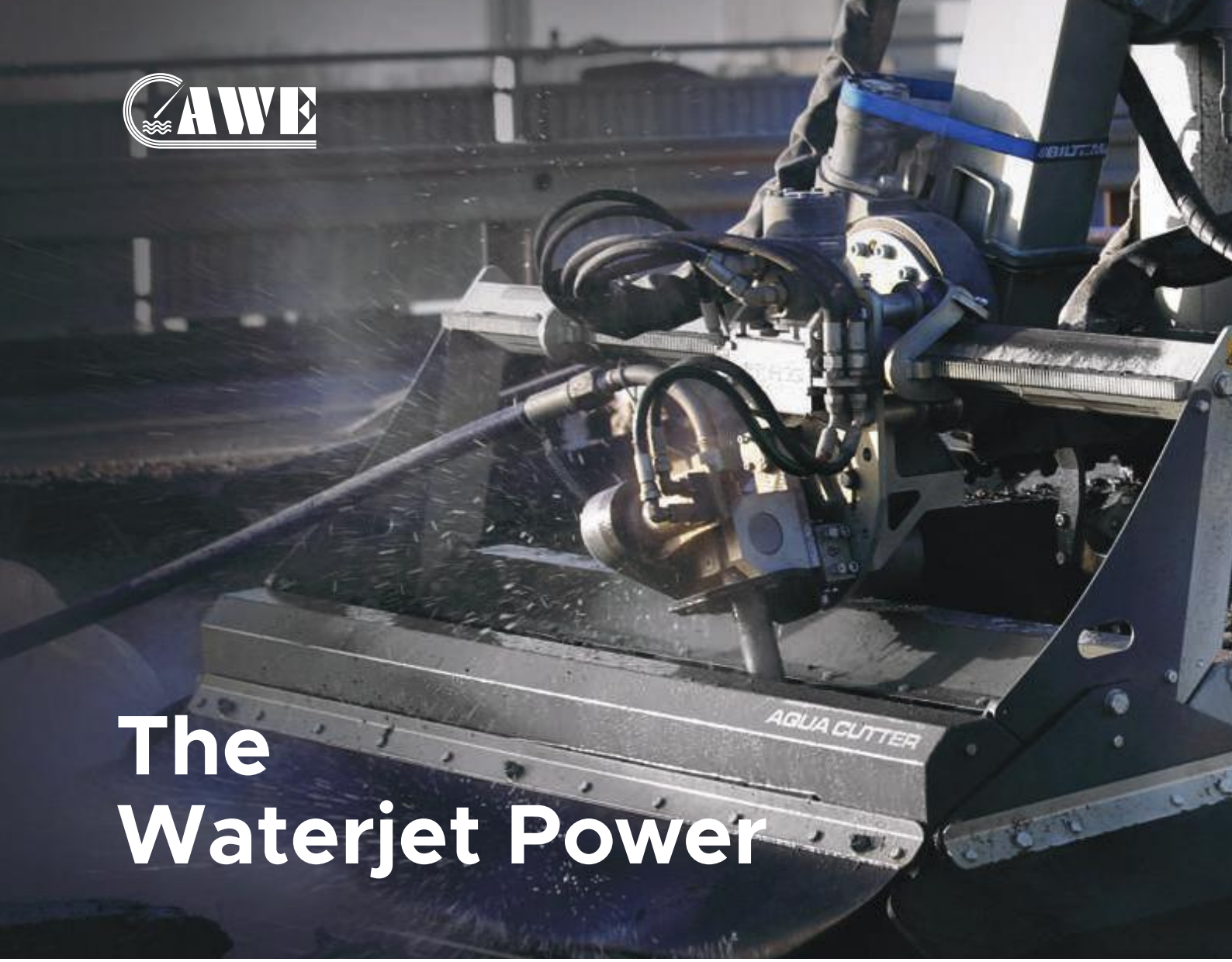
Hydrodemolition is the sustainable way to protect and preserve concrete constructions. The Key Hydro-demolition is to pressurise and widen the microcracks in the weakened concrete using high-pressure water penetration. Material is removed as the build-up of pressure exceeds the tensile strength of the concrete.

Unlike conventional methods such as jackhammers, Hydrodemolition is impact-free, avoiding vibrations that loosen rebar and cause micro fractures, protecting the integrity of the substrate.

Hydrodemolition is applicable to all concrete surfaces in need of refurbishing, repair or cleaning, and can be used underwater.

LCC analysis shows that the life expectancy of repairs carried out in conjunction with the hydrodemolition method are extended to 21-35 years, compared to that of conventional mechanical chiseling which is on average 7-12 years.

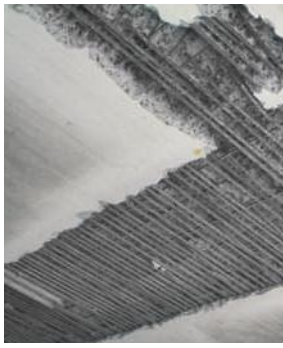
AWE



The Waterjet Power

The Hydrodemolition technique offers numerous outstanding benefits compared with the traditional use of handheld waterjet equipment, milling machines and jackhammers.





Hydrodemolition is the sustainable way to protect and preserve concrete constructions. The method is ideal for removing deteriorated and damaged concrete.
With Hydrodemolition equipment you also leave a sound and good surface, ready for reinstatement with new material. Precision control of the high-pressure waterjets ensures that the rebars remain intact after the operation. As a method and in terms of avoiding cracks, Hydrodemolition is outstanding.

Hydrodemolition is safer than any other concrete removal method due to its automatic nature. It basically eliminates manual labor from the picture, keeping the operator out of harm's way. Our automated robots and fixed hydrodemolition equipment are always operated from a safe distance with a remote control. The operator at the site doesn't have to worry about debris or projectiles flying around, nor dust pollution in the air or the potential risk of silicosis. With our innovation, Ergo Systems, you can also automate your sanitization operations and make your everyday work a whole lot easier, safer and faster.

AQUAJET
SYSTEMS AB















AWE



Pioneer Pump

Asia Waterjet engineer and package high performance centrifugal pumps for use in Oil & Gas, Industrial, Pipeline Pre-Commissioning and Flushing, Agriculture, Mining, Municipal, Dewatering, Overpumping, Storm Water Drainage and general applications.

PIONEER PUMP
PERFORMANCE THROUGH INNOVATION™

SOLIDS HANDLING & CLEARWATER PUMPS

1.5 to 30inch flange sizes.
Flows upto 10,000 m3/hr
Heads upto 210 meters.
Impellers available for clear liquid or solid handing applications
Maximum solids handling 5.9 inches.

Mechanical seal lube oil reservoir allows pump to run dry indefinitely.

Pioneer's Posivalve stainless steel priming valve is specifically designed to eliminate product carryover.

Mechanically driven diaphragm type vacuum pump with 50cfm capability to prime the suction line quickly and reliably



Heavy Duty Design with various material options available:-

• Ductile Iron • CD4MCu Duplex stainless steel • 316 Stainless steel - Reduced maintenance costs

AVAILABLE IN SKID MOUNTED/ LIFTING FRAME/ CONTAINER/ WHEEL-MOUNTED OPTIONS.

We understand the heavy-duty demands of our client's applications, and in this region, pumps will invariably operate in hostile environments. For this reason, we source performance pumps and custom package using robust ductile iron with over sized bearings and shafts giving you unparalleled reliability.

All of our pumpsets are fully engineered to your specifications, pumps can be skid or trailer mounted, or can come complete with a lifting frame or canopy enclosure.

As required, our Technical Engineers can ensure each unit's compliance with hazardous zones and ATEX regulations. With unrivalled regional teams of service technicians and support staff, Asia Waterjet provide an after sales service that you can have confidence in.

AWE

Pioneer Prime Vortex

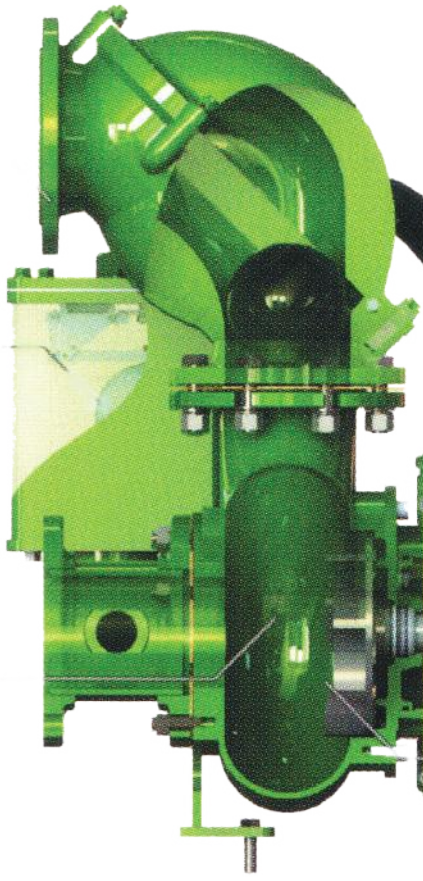
Pioneer Prime vortex pumps are specifically designed for sewage and wastewater applications which contain large amounts of stringy solids and rag. Combining the very latest high efficiency vortex impeller designs with Pioneer priming technology has resulted in the highest performing vortex portable pumpset in the world .

A choice of configurations and materials of construction are available, including optional 27°/o chrome iron, CD4MCu duplex stainless steels, to ensure the best possible solution to your requirements.

Fully opening non-return valve for increased efficiency.

Stainless steel priming equipment for reliable priming action.

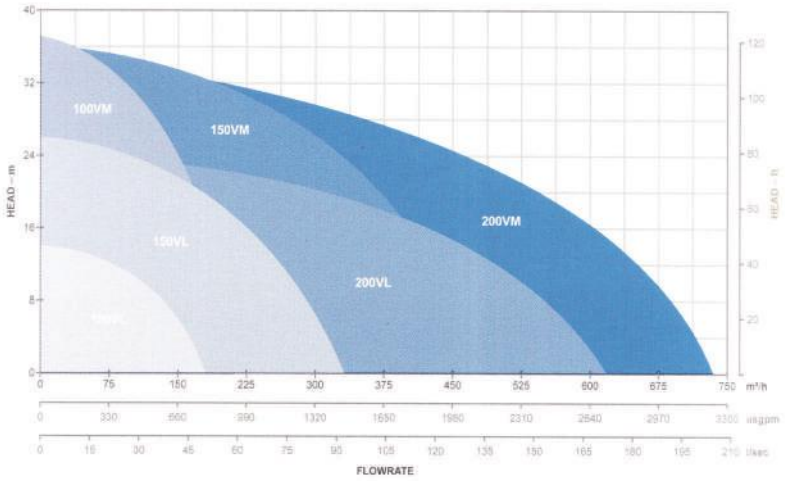
Tough, durable, Ductile Iron impeller, for handling suspended grit and sand in sewage.

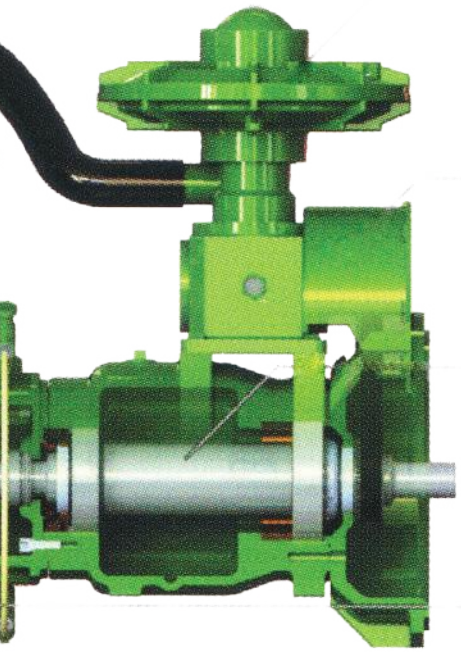


PIONEER PUMP
PERFORMANCE THROUGH INNOVATION™

VORTEX PUMP RANGE

Pump No.	Model No.	Max Flow	Max Head
100VL	PP44V8	180 m³/h	14 m
100VM	PP44V10	210 m³/h	37 m
150VL	PP66V10	330 m³/h	26 m
150VM	PP66V12	470 m³/h	36 m
200VL	PP88V12	610 m³/h	24 m
200VM	PP88V12	735 m³/h	35 m





50cfm vacuum pump for fast priming to 8.Smy

SAE housing for fast servicing.

Heavy duty shaft design for long seal life.

Vortex flow large solids handling impeller which prevents blockages

AWE



Custom Centrifugal Pumps

Using a selection of the market leading brands, we custom engineer and package split-case, end suction and multi-stage pumps, vacuum assisted automatic self priming and automatic wet self-priming pumps.

By applying the expertise that we have built up over many years of serving a large and diverse customer base, we are able to offer the right centrifugal pump package to suit your specification. With one pump we can supply flows up to 10,000 m3/hr,or heads up tp 1,800 meters.

We offer canopies for sound attenuation or weather protection, trailer or trolley mounted pump sets, detachable lifting/crashframes with or without roofs and diesel engine or electric motor driven pumps

AWE is able to supply the centrifugal pump that you need in the design configuration of your choice.




AWE
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Asiawaterjet.com

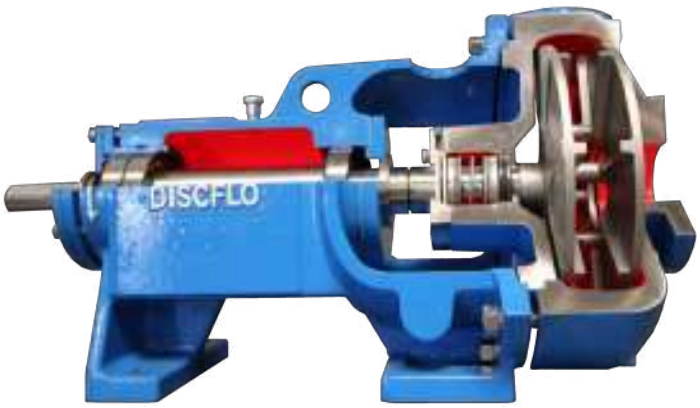

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Asiawaterjet.com





DISCFLO
Streamline Pumps

Discflo's pumps have been solving problems in the Oil & Gas + Petrochemical, offshore and onshore service, subsea operations, tank transfer,environmental clean-up operations, crude oil processing and pumping oil/water emulsions industry for over 36 years. The powerful combination of superior abrasion resistance, gas entrained pumping ability, and non-emulsifying laminar flow make the disc pump the ideal choice for some of the toughest applications.



NON PULSATING, LAMINAR FLOW

HARNESSING THE POWER
OF BOUNDARY LAYER VISCOUS DRAG



The **non-impingement** and **laminar flow** pumping of the disc pump is similar to flow through an ordinary pipe. The layers of fluid at the walls are stationary (relative to the rotating discs), creating a protective boundary layer. Viscous drag pulls layers into flows of smooth laminar streams.

NO CLOSE TOLERANCES

The disc pump is not a centrifugal pump, positive displacement, gear or lobe pump. Unique in design, the disc pump bridges the performance gaps of conventional pumps and is capable of out-performing all of them in many applications.
Non Pulsating, Laminar Flow

NO RADIAL LOADS

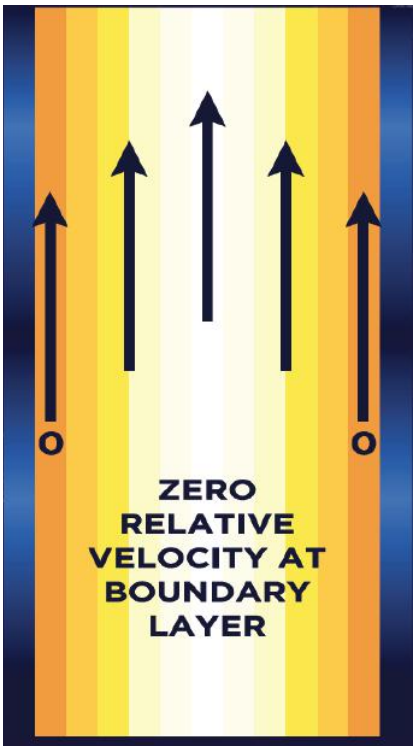
The disc pump uses a new and patented technology that isn't available in any other pump. The technology of the disc pump harnesses the natural power of the boundary layer and viscous drag.

NON PULSATING, LAMINAR FLOW

Through viscous drag, the fluid is pulled through the pump without impingement. The boundary layer attracts and drags successive layers of fluid molecules into layered flows of parallel streams. This is the simple principle of viscous drag and in the disc pump it is a powerful dynamic force that "pulls" the fluid through the pump in a smooth laminar, non-turbulent flow.

With no impingement device to damage your product and a boundary layer of protection for the pump, the disc pump effectively eliminates the root cause of clogging, cavitation, excessive wear and product damage that plague the performance of conventional pumps. Discflo is more reliable and efficient in handling tough application and a lot more cost effective. It simply lasts longer, requires fewer (if any) repairs and doesn't damage your product.









Dynajet
Water Jetting Systems

When it comes to waterjet systems, DYNAJET sets standards worldwide. Their engineers perfect the characteristics and ergonomics of DYNAJET waterjetting systems on an on-going basis for maximum quality and safety.

DYNAJET





Throughout the world, professionals of all sectors trust in the highly efficient water-jetting systems and accessories from DYNAJET. Their innovative high-pressure units, offering a working pressure of up to 3,000 bar (43,000 PSI), impress not only with their all-round deployability, but also with their extreme cost-effectiveness, absolute relability and uncompromising quality.

AWE

Compact, Powerful and Versatile

With its multifunctional, powerful and economical water- jetting systems, DYNAJET has always been a strong and reliable partner for industry. Production installations of all sizes are cleaned quickly, efficiently and safely with DYNAJET.

In construction and renovation work particularly, it's speed, efficiency and safety that count. With DYNAJET's professional water-jetting systems, you meet these demands at all times and are ideally equipped for all the construction and renovation challenges you face. Our comprehensive portfolio of products and accessories makes sure of this, offering a suitable tool for every task.

DYNAJET's high-performance water-jetting systems enable you to clean construction equipment, scaffolding and shuttering quickly, thoroughly and economically or restore facades and concrete safely, precisely and inexpensively.

Thanks to our multifaceted portfolio of accessories, countless cleaning and renovation tasks can be solved with just one DYNAJET high-pressure cleaner.





DYNAJET







AWE



Flowplant
Fluid Equipments

Flowplant is an industry leading supplier of fluid pumping systems, hydrostatic test units and high pressure umbilical flushing equipment.

- **Fluid Pumping Systems**
- **Hydrostatic Testing Units**
- **Umbilical Flushing Equipment**



Whilst Flowplant build a standard fast-fill range of hydrostatic testing units operating at up-to 1,000 bar, they also design and custom build units to customer requirements.

Flowplant own of some of the best known and respected brands in the high pressure fluid engineering industry including: Harben, Aqua and Neolith.

All of their engineers and project managers are fully versed with the latest EU directives governing the design of high pressure pumping systems. Their products have an enviable reputation for technical excellence, reliability and longevity. When more specialist equipment is required, Flowplant can manufacture to meet regulation specifications such as ATEX, Norsok and IEC Ex.

The Harben® Pump

The Harben® pump features multi-cylinder design ensuring pulsation free operation.

The nature of the pumps design allows the use of ‘dirty’ water, filtered to only 150 microns, and gives the ability to run dry without damage.

Applications that Harben Pumps can be utilised for include drain/sewer cleaning, high pressure cutting of board, floor and surface cleaning, subsea cleaning.



FLOWPLANT

FLOWPLANT TRAILER UNITS

✔ Included
x3 3 included
? Optional
n/a Not Applicable

	Budget		Mid Range			
						
	DTM Econo	DTB 500 Econo	DTM	DTB 500	DTXII	DTQ
Pressure	200 bar/3000 psi	280 bar / 4000 psi	280 bar / 4000 psi	280 bar / 4000 psi	280 bar / 4000 psi	280 bar / 4000 psi
Flow	41 l/m / 9 gpm	60 l/m / 13 gpm	38 l/m / 8 gpm	72 l/m / 15 gpm	72 l/m / 15 gpm	105 l/m / 23 gpm
Pump	Triplex plunger	Triplex plunger	Harben	Harben	Harben	Harben
Drain diameter (max)	200mm / 8"	450mm /18"	200mm / 8"	450mm / 18"	450mm / 18"	600mm/ 24"
Blockage clearing	✔	✔	✔	✔	✔	✔
Root cutting	n/a	✔	✔	✔	✔	✔
De-silting	n/a	n/a	n/a	✔	✔	✔
Engine (kW)	18	36	16	33	33	49
Water capacity (litres)	230	500	230	500	900	900
Hose reel capacity (m)	90	90	90	150	150	200
Weight dry from (Kg)	550	990	520	970	1600	2000
Weight full water tank from (kg)	780	1490	750	1470	2500	2910
Dimensions (LxWxH) m	2.94 x 1.39 x 1.34	3.40 x 1.71 x 1.38	2.94 x 1.39 x 1.34	3.40 x 1.71 x 1.38	3.63 x 1.89 x 1.65	5.12 x 1.89 x 1.65
Fitting into vehicle	n/a	n/a	n/a	n/a	n/a	n/a
Over run brakes	✔	✔	✔	✔	✔	✔
Jetting hose (90m)	✔	✔	✔	✔	✔	✔
Standard Drain Jets	x3	x3	x3	x3	x3	N/A
High Efficiency Drain Jets	?	?	?	x3	x3	x3
Safety leader hose	✔	✔	✔	✔	✔	✔
Drainjet extension	?	✔	?	✔	✔	✔
Radio remote	?	?	?	?	?	n/a
Jump Jet kit	?	?	✔	✔	✔	n/a
Anti freeze kit	?	?	?	✔	✔	✔
Inlet hose reel & 25m hose	?	?	?	✔	✔	✔
Jetting Gun & shroud	?	?	?	?	?	?
Service/Location tracking (UK only)	?	?	?	?	?	?

AWE



DRUMBLASTER BUILD-UP CONTROL TECHNOLOGY (BCT)

REDUCES CONCRETE BUILD-UP BY 85%



HOW IT WORKS

DrumBlaster's build-up control technology reduces mixer drum build-up by 85% + in just minutes per day using either fresh or recycled water. DrumBlaster technology uses multiple water jets specifically designed to remove concrete build-up from the mixer drum including, both sides of the mixer blades. A typical cycle takes 6 minutes. The concrete build-up is removed on a daily basis while the concrete is still green reducing.

FEATURES

+ Safety! Drum does not spin during cleaning

+ Cleans a-frame and hopper

- **Increased Safety - Drum does not spin during cleaning**
- **Cleans a-frame and hopper**
- **Reduce chipping costs & frequency**
- **Increased capacity & productivity**
- **Reduced tare weights**

DrumBlaster
DAILY WASHOUT SYSTEM

drumblaster.net

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