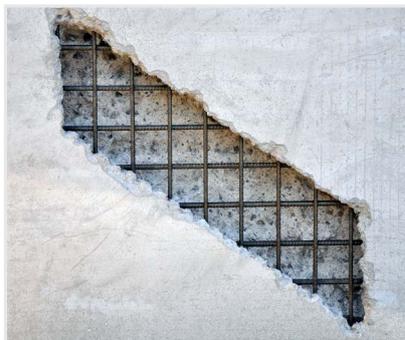


SMALL AND DESTINED FOR GREATNESS



THE SMALL GIANT

It's small, compact and suitable for all kinds of operations. Most importantly, it gets the job done every time. With the help of an articulated arm you can reach horizontal, vertical and overhead areas easier than ever before. Meet the world's smallest standard manufactured robot for Hydrodemolition and industrial cleaning – the AQUA CUTTER 410A.

The AQUA CUTTER 410A is specially designed for applications in confined areas and to replace hand lance work. Its small size and low weight allow the robot to easily pass through narrow passages such as doorframes or operate from scaffoldings. The hydraulic and articulated arm, with two rotating joints and three extensions, can reach as far as 3 m (9,8 ft). This makes the robot agile, powerful and very easy to position.

CONTROL IN STICKY SITUATIONS

The power control module (PCM) can be disconnected from the tracked crawler. This allows you to drive the crawler into tight and inhospitable environments, such as small tunnels and flooded sewer pipes. You can operate the crawler from a safe distance with a radio remote control. In such situations the PCM is connected to the crawler by a cord, ensuring complete control of the robot in horizontal, vertical and overhead operations.



▶ Read more about this machine at www.aquajet.se





EDS – EQUAL DISTANCE SYSTEM

All of our Aqua Cutter robots feature our patented EDS system, short for Equal Distance System. The EDS keeps a preset distance from the nozzle to the concrete surface, regardless of the attack angle of the water jet. This is a major advantage. Standard systems without EDS make the water jet lose a lot of power before it hits the concrete.

SMART LANCE CONTROL

All Aqua Cutter robots with the Evolution control system have the patented Smart lance software. With the software you get access to advantages that no other robot offers. The smart lance control automatically calculates and coordinates the complete operating process and optimizes the removal from the operator's selection. All you have to do is set a few parameters. The pattern of the oscillation can be changed in different steps and wavelengths. You can also set a fixed wavelength. Program for multiple oscillation patterns, lance angles and removal depths in the same overpass. All movements are precise and smooth. In other words – better lance control and increased lifetime of mechanical parts.

RELIABLE AND EASY SERVICE

The innovative design provides unrivalled ease of access for all types of maintenance jobs. This means less downtime with maintenance work and more time for actual work. The unique gullwing hood and foldable back cover of our new Aqua Cutter robots offer total access for both daily maintenance jobs, such as checking oil levels, and periodic service jobs, such as oil and filter changes.

INTERACTIVE GRAPHIC DISPLAY

Fast and easy programming which decreases set-up times even more and makes programming and control like a walk in the park. The display is interactive and shows with graphics how the settings will affect operation. The system can be set to basic mode for normal operation and fast set-up or advanced mode for the most demanding tasks.

ROBOT INSIDE POWER PACK

All our 410 and 710 robots fit into our 23 ft Power Packs. All in one package ready to go to the worksite and no need for an extra trailer. This is a key point for quick set-up on the worksite. The robot is also protected from unauthorized intrusion into the Power Pack during the night.

NOZZLES

At Aquajet we use unique ceramic nozzles that are specially designed for highly demanding operations and all kinds of Hydrodemolition applications. The lifespan of an Aquajet ceramic nozzle is up to 300-350 hours, depending on the water quality, almost ten times longer than traditional steel nozzles. In terms of efficiency, our nozzles are unbeatable.

SPEED ZONES / 3D ZONES

Use of speed zones enhances the possibility of even more accurate removal, and removal of different depths in the same overpass. These zones can also be used to control the lance angle and oscillation. The 3D zones work like our patented shape function; cuts a figure but in depth. You can use them for removal of complex structures and uneven concrete. They also have the ability to create geometrical shapes.

GEOMETRICAL SHAPES

All products with the Evolution control system have the ability to cut geometrical shapes, such as circles, triangles, squares and rhomboids. You can program your shape of choice on the display or draw on the surface and use the robot's teach-in system. Speed zones and 3D zones can be combined with geometrical shapes. For example, you can create a circle with an inclined bottom or a rhomboid on several levels.

REMOVAL IN CORNERS

How do you reach corner areas where the wall and floor meet? Usually you need some kind of handheld trimming equipment. We have solved this problem in an ingenious way. With our robots you'll finish the job with only one overpass thanks to unique lance control and the EDS system. No hand lances. No adjustments. Just perfect results.

TOWER AND 3D POSITIONING SYSTEM

The easy-to-extend tower system on all V models of our robots has proved its versatility and the multi axis 3D positioning system of the cutting head, gives the ability to operate on all surfaces. The 710 robot's standard reach is 7 meters (23 ft), and can be extended further.

ISC - INTELLIGENT SENSING CONTROL

Intelligent Sensing Control, ISC, uses intelligent software that operates via closed loop systems that continuously memorize the movements of the water jet. It also monitors the process from the operator's settings. The system is standard on all Aqua Cutter classic robots as well as the PCU units, used for controlling the Aqua Spine and Aqua Frame.

OSCILLATION SYSTEM

The stroke can be changed in a minute to adapt to the scope of the work. A shallow cut requires a longer stroke and a deep cut needs a short stroke. This allows you to get a higher removal rate and better cut results in all situations.

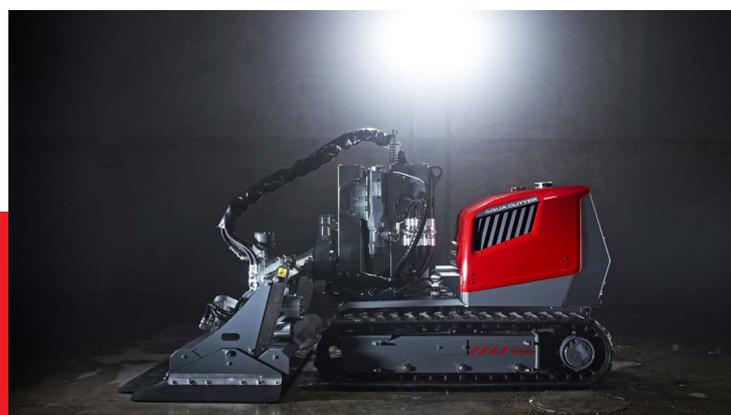
DISCONNECTABLE PCM

The power control module (PCM) can be disconnected from the tracked crawler and operated from a safe distance with a radio remote control. This allows you to drive the crawler into tight and inhospitable environments, such as small tunnels and flooded sewer pipes. It can also be connected to an Aqua Spine or Aqua Frame.

MORE FOR THE EFFICIENCY

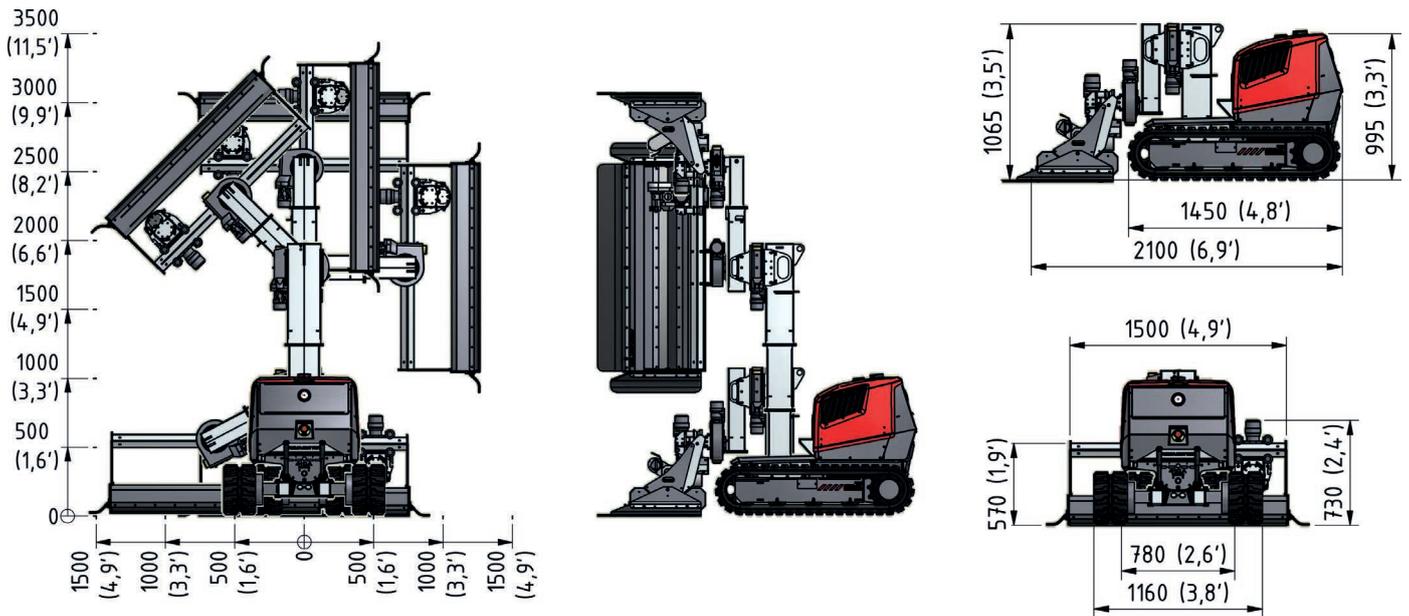
On top of all the above advantages there are also a number of other features that make life easier and jobs more efficient for you.

- Statistics that show the current capacity and productivity.
- All settings can be saved to a file for later use.
- Selectable units, Metric or US.
- Selectable tools: it is possible to select if you are controlling for example an Aqua Spine or an Aqua Frame from your robot.
- Possible to change robot model in the display when upgrading your robot.



AQUA CUTTER 410A

FACTS



TECHNICAL DATA

Total weight	1190 kg (2620 lb)
Length	2.1 m (6.9 ft)
Min. width	0.78 m (2.6 ft)
Track width	0.78-1.16 m (2.6-3.8 ft)
Min. height	0.99/1.07 m (3.2/3.5 ft)
Operating height	3 m (9.8 ft)
Side reach	1.3 m (4.3 ft)
Lance angle	± 45°
Working width	0-1.7 m (0-5.6 ft)
Working width extended	0-3.2 m (0-10.5 ft)
Drive source	Electric engine 3 phase 5,5 kW 400 VAC 16A (other on request)

COMPATIBLE PRODUCTS

Rotolance 2500 LT
Extension kit LT
PCM Carrier

EXAMPLES OF APPLICATIONS

Parking garages
Buildings/structures
Tunnels
Nuclear plants
Hydropower plants
Petrochemical plants
Waste water plants
Industrial cleaning

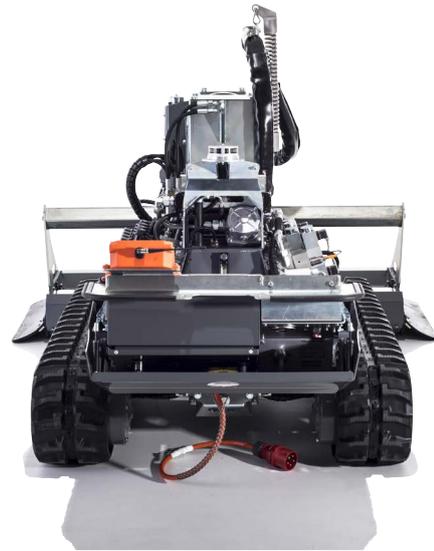


RELIABLE AND EASY SERVICE

The innovative design provides unrivalled ease of access for all maintenance jobs. This means less downtime for maintenance and more time for actual work.

POP THE HOOD

The foldable back cover of our Aqua Cutter 410 robots offers total access for both daily maintenance, such as checking oil levels, and regular service jobs, such as oil and filter changes.



AQS005E 1807

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