

**AQUA CUTTER**

410V

# SMALL AND AIMING FOR THE TOP



**aquajet.se**

# THE SKY IS THE LIMIT

The AQUA CUTTER 410V is small, compact and suitable for all kinds of operations. Our innovative design gives the operator freedom to reach all horizontal, vertical and overhead areas up to 4 meters without support.

The AQUA CUTTER 410V 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.

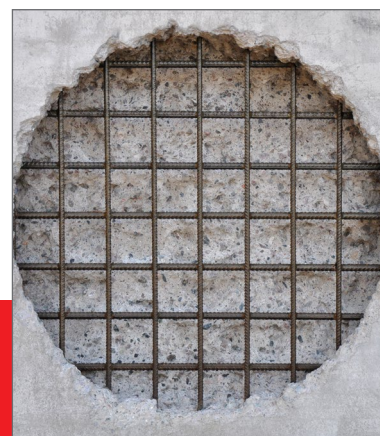
Our unique 3D positioning system can perform wonders. The front power head gives the operator full freedom to efficiently reach all areas. One example is vertical operations along or against the surface. Due to a compact design the AQUA CUTTER 410V can be operated in tight and confined areas, with retained mobility. For vertical and overhead operations the 410V has a steel mast constructed in sections. The mast can operate at heights up to 4 meters without support.

## TWO IN ONE

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 [aquajet.se](http://aquajet.se)





# INNOVATIONS AND DESIGN

## // CLASSIC CONTROL SYSTEM

If you choose the AQUA CUTTER Classic control system you'll get our patented ISC system – Intelligent Sensing Control, with no cables or electronic sensors outside the enclosed engine hood. You'll also get the 30° EDS roller that keeps a set distance between the nozzle and the concrete.

The classic control system makes it very easy to program the robot and all speeds are set manually with hydraulic valves. You can easily program and determine your operation width and area thanks to mechanical stoppers on the front roller beam.



## // EVOLUTION CONTROL SYSTEM

If you choose the AQUA CUTTER Evolution control system you'll enable highly computerized robotic management for advanced operations. In addition, you'll get the 45° EDS roller that keeps a set distance between the nozzle and the concrete, without any water jet energy waste.

The Evolution control system allows you to program geometrical figures such as circles, triangles, squares and rhomboids. Today, it's the most sophisticated and flexible system on the market for Hydrodemolition robots.



## // RADIO REMOTE CONTROL

A radio remote control allows you to operate the AQUA CUTTER robot from a safe distance, wireless or with a hard wire. That's up to you and the operation at hand.



## // EDS - EQUAL DISTANCE SYSTEM

All 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.



## // OSCILLATION SYSTEM

The stroke can be changed in a minute to adapt for 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.



## // TOWER AND 3D POSITIONING SYSTEM

The easy to extend tower system on all V models has proved its versatility; it is fast and easy to fit the required numbers of sections to reach the desired operation height whether it is for vertical or overhead removal.

The multi axis 3D positioning system of the cutting head, gives the ability to operate on all surfaces. The standard reach is 4 meters, and can be extended further.



## // DISCONNECTABLE PCM

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.



## // ROBOT INSIDE POWER PACK

All our 410 and 710 robots will fit into our 23' Power Packs.

All in one package ready to go to the worksite and no need for an extra trailer. Robot is also protected from unauthorized intrusion inside the power pack during the night.



## // 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. Perfect results.

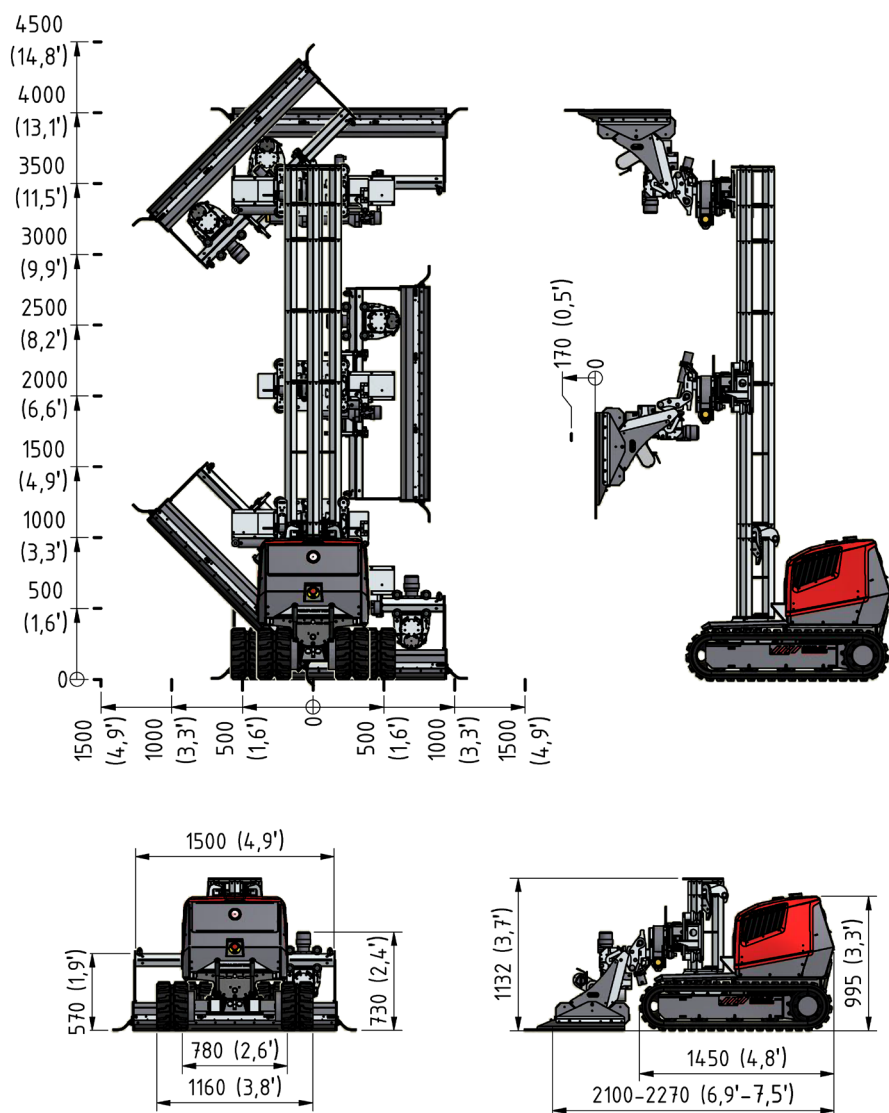


## // NOZZLES

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



# SPECIFICATIONS

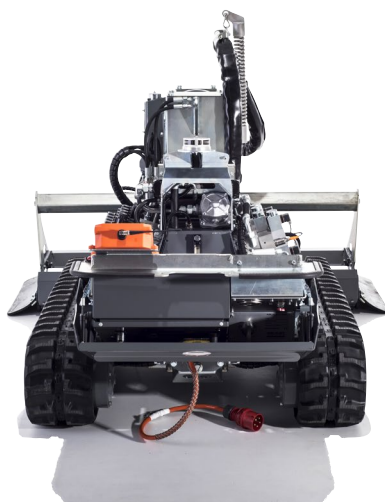


## RELIABLE AND EASY SERVICE

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

### POP THE HOOD

The foldable back cover of our 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.



## // TECHNICAL DATA CLASSIC

Total weight	1250 kg (2756 lb)
Length	2,1-2,27 m (6,9-7,4 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 m (3,2 ft)
Operating height	4 m (13,1 ft)
Side reach	0,95 m (3,1 ft)
Lance angle	±30°
Working width	0-1,5 m (0-4,9 ft)
Working width extended	0-3,0 m (0-9,8 ft)
Drive source	Electric engine 3 phase 5,5 kW 400 VAC 16A (other on request)

## // TECHNICAL DATA EVOLUTION

Total weight	1250 kg (2756 lb)
Length	2,1-2,27 m (6,9-7,4 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 m (3,2 ft)
Operating height	4 m (13,1 ft)
Side reach	0,95 m (3,1 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  
CPH - Circular Power Head  
PCM Carrier

## // EXAMPLES OF APPLICATIONS

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

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