

AQUA CUTTER

PCM

POWER & CONTROL ON A DISTANCE



AQUAJET
SYSTEMS AB



Power Control Module (PCM)

ROBOT

Work at a distance

The Power Control Module is used to power any of our fixed hydrodemolition equipment, making it possible to perform Hydrodemolition operations in difficult places – on a safe distance.

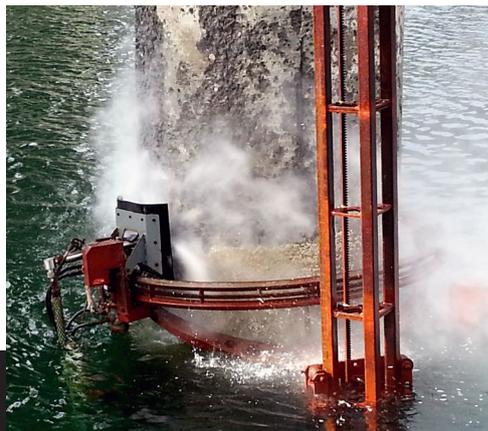
The Power Control Module (PCM) make it possible to perform a hydrodemolition operation or industrial cleaning work in confined and inhospitable environments, such as small tunnels and flooded sewer pipes. All at a safe distance with a radio remote control.

CONTROL IN STICKY SITUATIONS

Based on the operation at hand, connect the PCM by a cord to best suited equipment, such as an Aqua Spine, Aqua Frame or Circular power head. Perfect for work in tight or otherwise difficult spaces. It can also be used to drive a crawler into flooded areas, for examples under a pier. The possibilities are basically endless.



[▶ Read more at aquajet.se](#)





Features and benefits

EVOLUTION CONTROL SYSTEM (AQUA CUTTER 410/710)

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. Today, it's the most sophisticated and flexible system on the market for Hydrodemolition robots.

GEOMETRICAL SHAPES (AQUA CUTTER 410/710)

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.

SPEED ZONES / 3D ZONES (AQUA CUTTER 410/710)

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.

ISC - INTELLIGENT SENSING CONTROL (AQUA CUTTER 410/710)

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 robots as well as the PCM units, used for controlling the Aqua Spine and Aqua Frame.

SMART LANCE CONTROL (AQUA CUTTER 410/710)

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.

INTERACTIVE GRAPHIC DISPLAY (AQUA CUTTER 410/710)

The AQUA CUTTER evolution 2.0 control system features highly computerized robotic management for all advanced operations. 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. It also enables you to program geometrical figures such as circles, triangles, squares and rhomboids. You can operate at different depths in the same overpass.

RADIO REMOTE CONTROL (AQUA CUTTER 410/710)

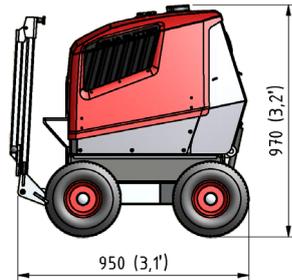
A radio remote control allows you to operate the AQUA CUTTER robot from a safe distance, wireless or with a hard wire. That's up to you and the operation at hand.





Power Control Module (PCM)

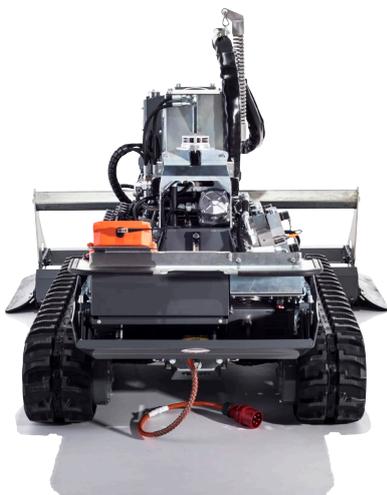
FACTS



Weight complete	445 kg (981 lb)
Max ambient temperature	38°C
Max hydraulic pressure	160 bar
Operational hydraulic pressure	110 bar
Max hydraulic flow	35 l/min
Motor power	5,5 kW
Voltage (standard)	3x400 VAC @ 50Hz
Voltage (standard)	3x480 VAC @ 60 Hz
Recommended fuse (standard)	16A
Sensor system roller	Pulse/ISC/Inductive/Pulse angle
Sensor system lance	Pulse/Time
Sensor system hoist	Pulse/Time
Sensor system tracks	Pulse/Time
Max hose extension length	20 m (66 ft)
Max hose ext. length with larger hose diameter	60 m (197 ft)

COMPATIBLE PRODUCTS

Aqua Spine
 Aqua Frame
 Circular power head (CPH)
 PCM Carrier
 Aqua Cutter 410 Crawler/Chassis



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 offers total access for both daily maintenance, such as checking oil levels, and regular service jobs, such as oil and filter changes.

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