

The **Robotic Climber**™

Uses:

Decontamination
Toxic Coating Removal
Concrete Scabbling
Inspections

Features:

Climbs Walls and Ceilings
Joy-stick Operated
Up to 36,000 PSI Hydropressure
Safety Teathered
Vacuum Recovery System
Totally Self Attaching
Captures All Waste

Coating Removal

Concrete Scabbling

Remote Controlled

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The Robot Climber

The Robot Climber is a technological breakthrough. This free climbing one-man operated device performs a variety of difficult, time consuming and costly tasks.

The Robot Climber climbs verticals and overhead surfaces. A powerful vacuum holds the Robot Climber to the surface. This vacuum also captures waste, preventing the spread of contamination or toxins. Thus coatings removal or concrete scarifying is completely contained. In tandem with High Productivity, the Robot Climber provides safe and economical removal of contamination, coatings, toxins or concrete from surfaces. The Robot Climber functions equally as well on floors, decking and ballast tanks.

Capabilities Marine/Offshore/Oil & Chemical Process:

- ***Climb Ships Hulls, Oil-Gas Tanks & Removes Paint Coatings and Rust.***
- ***Up to ten times the production of hand held equipment.***
- ***Dramatically increases worker productivity.***
- ***Waste is captured right at the robot and is safely transported and/or recycling.***
- ***Can be operated up to 100'ft (30 metres).***
- ***Full forward, reverse and 360 degree turning capabilities.***
- ***Can eliminate costly scaffolding.***
- ***Eliminates Grit Blasting and dust.***
- ***Eliminates toxic abrasives for landfill sites.***
- ***Can be operated in dry-dock or while a ship is at sea.***
- ***Pneumatically operated, intransigently safe, no outside power source required.***

Typical Production Rates per hour:

	<i>Minimum</i>	<i>Maximum</i>
<i>Coatings removal from steel/concrete</i>	<i>15 sq. mts</i>	<i>40 sq. mts</i>
<i>Scarifying Concrete</i>	<i>15 sq. mts</i>	<i>30 sq. mts</i>

*These figures are believed to be within typical ranges of productivity. Results will vary depending on many variables, including site conditions, coating type, thickness, age and condition of material being removed and other substrate factors. Aqua Energy Systems Limited makes no claim that these will be the results that you will achieve. **A test should always be performed to determine actual results.***

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ROBOT CLIMBER - TECHNICAL DETAILS

Robotic Climber comes complete with the following

- a). Large metal lockable storage box, suitable for air-freight.
- b). Approximate dimensions of box 120cm x 70cm x 70cm
- b). The Box is quickly converted into a work-station to operate the Robot.
- c). All Pneumatic Controls.

1. Robotic Climber Specification

Approximate Dimensions: **Wide-635mm x Long-584mm x High-457mm**

Approximate Weight: **37Kg** without Hoses & Lines.

Vacuum Hose: 3" (**75mm**) inside diameter.

Water Jetting Hose: **8mm** inside diameter

Water Jetting hose at Robot: **5mm** inside diameter

2. Compressor Specifications

Recommended Air Pressure: 120 psi (**8.27 bar**).

Recommended Air Volume: **250 CFM**

Air Hose: 20mm to 25mm inside diameter (**25mm preferred**).

3. UHP Jetting Unit

2,500 to 2,800 bar @ 15 l/min

4. Vacuum Specifications

Minimum Vacuum: **500 CFM**

Minimum Mercury: **8" to 10" inches**

5. Controls

- a. Pneumatic Controls Box, controlling air motor, track forward and reverse speeds.
- b. Separate Pneumatic Control Panel for working in **Explosive Environments**.
- c. Pneumatic, Automatic Safety Tether Winch, with up to **60 metres of cable**.
- d. Pneumatic Air Logic Control Line Bundle (five Lines), **30 metres long**.
- e. Pneumatic Airline for Safety Winch, with up to **30 metres** in length.
- f. 2 x 30metres x 75mm Vacuum Hose, complete with quick connect couplings.

THE POWER OF WATER