



HYDRO DEMOLITION

WHAT IS HYDRO DEMOLITION?

Hydro demolition utilises the power of high pressure water jetting for the controlled removal and/or demolition of concrete. The vibration free process of hydro blasting removes the concrete leaving the steel reinforcement in place with no damage to adjacent areas.

Buxton Water Ltd specialise not only in manual hand lance hydro demolition, but also operate the largest UK based robotic fleet. Robotic hydro demolition opens up the opportunity for significantly increased rates of hydro demolition concrete removal compared to traditional hand lance methods, typically in excess of 5 times greater productivity with the added benefit of creating a safer working environment.

As members of the Water Jetting Association, Buxton Water's experienced operators are fully trained and certificated to undertake all types of high pressure water jetting tasks including:

- Hydrodemolition Concrete Removal
- Concrete Scabbling
- Ultra High Pressure Surface Preparation
- Industrial Cleaning: Tube Bundles, Process Pipework, Heat Exchangers

WHY USE HYDRO DEMOLITION?

- Vibration free eliminating HAV's risk for operators compared with percussive tools
- Vibration free eliminates percussive noise transfer within a structure
- No damage of cracks to adjacent concrete
- Embedded steel is undamaged and cleaned
- Creates an excellent base to form a strong bond surface for new material

HAND LANCE HYDRO DEMOLITION



- Typical productivity based on 1 cubic metre per crew per day
- Ideally suited for smaller volume removal
- Ideally suited where access is restricted

ROBOTIC HYDRO DEMOLITION



- Typical productivity based on 5 cubic metres plus per crew per day
- Significant gains in Health & Safety with the operators being remote from the process
- Enables shorter working programmes
- Ideally suited for larger volume jobs

RECENT CONTRACTS:

- **Kingsway Mersey Tunnel**
Removal of deck patches to a depth of 110mm average.
355 cubic metres total removal
- **Aberthaw Power Station**
Removal of outer face of retaining wall . 8 cubic metres total
- **Enderby & Leicester Road Bridges, Melton Mowbray**
Parapet edge beam section removal
- **Milnrow Bridge, Rochdale**
Removal of 475mm depth deck span. 36 cubic metres total
- **West Burton power Station**
Deck slab & beams to hoppers. 30 cubic metres total
- **Berwick Water Treatment Works**
Tank wall removal to 100mm depth
- **Rosyth Naval Dockyard**
Section removal of crane beams. 15 cubic metres total

Buxton Water Ltd

Unit 4, Lockett Business Park, Lockett Road,
South Lancashire Industrial Estate,
Ashton in Makerfield. WN4 8DE

Tel: 0845 873 1549
Fax: 01942 726 187
Email: estimating@buxttons-water.co.uk
Web: www.buxttons-water.co.uk



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