Health and Safety Benefits of Ultra High Pressure Water Jetting

Water Usage:
- 10 litres
- UHP Water Jetting: 27 litres
- HP Water Jetting: 54 litres

Reaction Force:
- 10 k/n
- UHP Water Jetting: < 25 k/n
- HP Water Jetting: < 47 k/n

Hand Arm Vibration Syndrome:
- UHP Water Jetting: No restraints, can work over 12 hour shift
- Jack Hammer: Limited to 15-30 mins work per 24 hours
RGL have been undertaking water jetting services for over 30 years, 10 years ago we changed our focus from High Pressure (HP) to Ultra High Pressure (UHP) water jetting due to changes in legislation and concern for our employees as our competitors experienced some major injuries while operating at the 470 newton reaction force level.

UHP water jetting enables the same productivity as HP water jetting, to be maintained while using less water, meaning less resultant wastewater for treatment, and a lower reaction force for operatives to manage. Other benefits of using UHP water jetting for concrete removal include:

- No damage caused to reinforcing steel
- Creates no percussive noise, or vibration;
  - unlike Jackhammers which transfer noise throughout the structure
  - enabling us to work in close proximity to offices and public places
- Does not cause micro cracks in the structure
- Superior surface is created for bond with new concrete

Through operational experience and in-house development RGL strive to remove the operatives from the work face whenever possible, reducing health and safety concerns associated with water jetting. Should hand held water jetting be necessary all our operators are fully trained to the Water Jetting Association standard, and have high level of competence.

Our past experiences include undertaking approximately 150 projects annually, working with blue chip companies throughout Europe on varied civils construction projects, in recent years we have worked on the following transport sector projects:

- M5 Western Arm, 2016
- Crossrail project, London, 2014-16