HYDROBLAST
Ultra High Pressure Water System
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Introduction

WJ is the UK’s leading provider of award winning road markings, specialist highway products and services. WJ are passionate about the environmental impacts of business, hold a gold award with the Supply Chain Sustainability School and are proactive in innovating better ways to do things.

A review of the traditional methods of road marking removal which normally requires burning off using a thermic lance highlighted a need to reduce the exposure of our operatives and the public from harmful emissions.

Following worldwide research WJ introduced the Hydroblast Ultra High Pressure water system into the UK highways industry. The process is now recognised as the most advanced system providing a more environmentally friendly option and safe method of road marking removal.

Hydroblast Removal

Efficient removal of road markings can be achieved with one single pass of the Hydroblast head which blasts water onto the surface and eliminates the markings.

The revolutionary swing arm on the buggy mounted head allows for effective removal of hatching and legends as it sweeps through a one metre radius. This feature also allows for double lines or wide markings to be removed in the one pass of the powerful water jets.

The Hydroblast system offers a unique level of versatility and performance with little or no damage to road and pavement surfaces.

A patented vacuum recovery system ensures that particles do not dissipate into the atmosphere or enter the water course and leaves the road clean and virtually dry.

The single step process needs no secondary clean-up and waste water is filtered to 100 microns before safe disposal within a robust environmental policy.

Applications

Hydroblast technology is ideal for the removal of road marking and high friction or safety surfacing.

The system is suitable for use on all types of substrate including asphalt, concrete and block paving.

Resources

WJ has a fleet of machines including the Hydroblast 8000 with front bumper mounted heads as well as Hydroblast 4000 buggy mounted versions.

Working with fully trained operatives from strategically located depots, WJ provide a versatile local and UK wide service.

Benefits

Environment Friendly

- Noise, smoke, debris and toxic fumes are eliminated and the efficient vacuum operation ensures no particles dissipate into the atmosphere whilst preventing contaminants entering the water course
- Speed of the operation means fewer emissions and requires less traffic management with traffic delays also substantially reduced
- Versatile buggy means there are no operators on foot during removal
- Eliminates flying molten debris
- Enables vacuum recovery and disposal
- Safety (no operators on foot)

Cost Effective

The speed of the system provides cost saving efficiencies allied to the contracted volumes of removal.

Other Uses

Retexturing

Hydroblast technology is highly effective for increasing texture depth or restoring skid resistance on stone mastic asphalt thin surfacing, hot rolled asphalt surface course and fatted up surface dressing.

Surface Preparation

The versatile Hydroblast system can be regulated for removal of excess bitumen from newly laid surfacing at Junctions and roundabouts allowing high friction surfacing to be laid within a shorter timescale than normal.

Enhanced Safety

- Versatile buggy means there are no operators on foot during removal
- Eliminates flying molten debris

Decorative Surfacing

Decorative surfacing aggregate installed within a bitumen binder can be quickly and effectively washed to remove the surface bitumen and expose the nature colour of the aggregate.

Emergency Fuel Spill Service

WJ provide a responsive 24 hour emergency fuel spill clean-up service with environmental benefits and potential for huge cost savings.

The Hydroblast system is capable of cleaning oil and diesel spillage over an area of approximately 500m² within 90 minutes and is an efficient, clean, safe and sustainable option.

Quick, safe and environmentally friendly removal of road markings

Airport Maintenance

The powerful Hydroblast 8000 with a 700mm bumper head cleaning width proves useful for numerous airport maintenance tasks.

- The system is ideal for removal of rubber deposits off touch down zones, taxiways and aprons and effective for runway marking removal
- Successful applications carried out on UK Airports
- Rubber removal – T02 on runways

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