



THE **HYDROBLASTER**

INNOVATIVE HYDRO TECHNOLOGY



great people: great work



ABOUT FM CONWAY

FM Conway is a leading infrastructure services company operating in transportation, the built environment and public realm for almost 60 years.

Whether working on small maintenance schemes, major frameworks or large complex projects, we deliver in partnership with local authorities, network operators and the private sector to meet the needs of our customers, local people and business.

We are unique in our field, inwardly investing in our vast resource of facilities, products, plant, and equipment to create inhouse capabilities across the entire life-cycle of a project, from design, material production, construction, and maintenance.

Our operating model provides our clients, partners, and own internal teams with the security of reliable access to low carbon, high-quality, and recycled materials; it ensures that in-house expertise is deployed across the breadth of our services so we achieve higher standards, reduce costs and provide efficient delivery.

WET WASTE RECYCLING

FM Conway is committed to sustainable waste disposal. It cleans over one million road gullies every year, and recycles this often, undervalued waste products to reduce impact to landfill.

Our specialist Drainage Treatment Plant, the only full process recycling plant of its kind in the UK, recycles 30,000 tonnes of gully waste each year; redirecting waste from landfill where it is treated using a system of separation, filtration and screening to make the majority of constituents suitable for reuse, and helping our customers to reduce the environmental impact of their projects.

INTRODUCING THE DRAINAGE & CLEANSING DIVISION

FM Conway are experts at providing professional drainage and cleansing services which can be employed independently or as part of an integrated infrastructure services programme.

Our experience spans a broad range of facilities from the entire highway network, power stations, airports, housing associations, the retail and manufacturing sector, rail infrastructure, major water companies, and ports and harbours.

Self-delivery is at the heart of our offer; with a significant investment in one of the largest and most technologically advanced fleets in the UK, we provide flexibility and reliability for our customers.

OUR FULL RANGE OF SERVICES INCLUDE -

- **CCTV drainage investigation**
(full specification - HADDMS surveys)
- **High pressure water jetting**
(latest technology Super-combination units)
- **Gully cleansing** (data collection)
- **Tankering** (wet well cleaning)
- **Rehabilitation “no dig” technology**
(pipe lining and patch lining)
- **Manhole laser surveys**
- **Laser scanning technology**
- **Graffiti removal**
- **GPS utility mapping**

THE MAIN LORRY UNIT

The machine operates at 28 litres / min and at 2500 bar with a maximum pump pressure of 2800 bar

8,500 lt clean water tank

10,000 lt debris tank

Operating width from 300 – 2100 mm

Surface cleaning / rubber removal at up to 122 mt sq per hour.

Linear paint removal at between 1000 – 3000 linear mt per hour (depending upon surface conditions)

THE RAPTOR

The Raptor is designed as a remote operating tool, increasing the versatility of the FM Conway Hydroblaster System.

The Raptor may be fitted with articulating single arm for line marking removal or with a rubber removal / large surface area cleaning unit for surface cleaning in tight areas.

The hydrostatic drive system enables the operator to control the forward speed accurately and our unique chassis design steers from the centre point between the front and rear axles, you can be confident that any obstacle that you have passed with the cleaning head such as ground lighting will also be passed safely by the rear of the machine.



THERMOPLASTIC & LATERAL DEPOSIT REMOVAL SYSTEM

For further details or a demonstration
contact us on: 01732 600 700 or email:
Hydroblaster@fmconway.co.uk

INTRODUCING THE HYDROBLASTER

The Hydroblaster is a bespoke multi-purpose vehicle containing a purpose built "Raptor" unit working with our existing fleet of Ultra High Pressure Water Jetting systems in conjunction with our own in-house traffic and event management division.

It is designed for the effective surface coating removal of a variety of products, from rubber, to graffiti, to line marking, and is ideal for cleaning up after fuel or chemical spillages as it minimises damage to the existing surface when compared to other removal methods.

Due to the versatility of its unique design and "Raptor" functionality it is ideal for all kinds of applications including general and planned maintenance, deep clean procedures, or emergency works.

FM Conway hydroblasting removal and improvement services are used in many different sectors including Highways, Local Authorities, Aviation, Rail Infrastructure, Retail & Leisure, Power Generation and Manufacturing.

Our unique design has maximised the use of advanced technology in order to minimise manual operations, thereby reducing safety risks as the operation is completed from within the vehicle whilst still delivering optimal results.

CLEANING THE ROAD SURFACE

Using ultra high-pressure water and 'state of the art' computer control technology the FM Conway Hydroblaster system is a self-contained truck mounted unit. Difficult to reach areas are tackled by the supporting "Raptor" unit that enables the effective removal of all products in hard to reach areas, first time.

It is able to continuously remove deposits whilst recovering all water and debris and can operate for over 5 hours on a single fill of water. The recovered waste products are separated and recycled at our state of the art Drainage Treatment Plant.

The FM Conway Hydroblaster vehicle removes deposits up to widths of 2100mm. The optimum speed of removal is up to 3000 linear metres per hour; advances in our jet head, nozzle and control system design mean that these rates are increasing all the time.

This controlled forward speed ensures that the operator is able to maintain a minimal linear overlap. Some systems that move forward at a faster rate place huge strains on the operator when trying to ensure that the overlap remains constant and that there are no areas missed.

Another advantage of our optimum speed is the assured full recovery of debris and waste. Effective removal is only the first stage of the process. The debris must be collected to ensure that it is not re-deposited.

ZERO DAMAGE TO THE ROAD SURFACE

The computer control system utilizing only high-pressure water does not require the addition of environmentally hazardous chemicals or expensive and damaging wire brushes. Therefore damage to surface areas are minimised and the nozzles are arranged to prevent aggressive shadowing in the centre of the works area.

This FM Conway Hydroblaster system offers you exceptional results without risk of environmental damage or costly resurfacing and replacement.



THE RAPTOR SPECIFICATIONS

High Pressure System Paint Removal Option

Jet head dia	150 - 300mm
Rotary spin	Hydraulic
Speed control	300 - 3000 rpm
Debris recovery	FM Conway Hydroblaster System

High Pressure System Rubber Removal (Option)

With 28 l/min UHP pump system	
Treatment width	1000mm
Jet bars	2 x 500mm
Rotary spin	Hydraulic
Speed control	300 - 2000 rpm
Debris recovery	Integral vacuum system
Frame	Welded profile frame with integrated castor rollers

CONWAY
great people : great work

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