spika Welding and Manufacturing Inc

Setting the Standard

WB510 WeedBlaster

Features

- Industrial duty plunger pump, capable of producing 1500-2000 psi, with flow volumes of 18-20 gallons per minute
- Gas or diesel engine powers the pump as well as a 4000 watt AC generator to supply power to remote pumps and components of the system
- Control Panel provides centralized control, operation, and system monitoring
- Multi-process separation system includes a hydroclone to remove larger solids, a settling cell to allow heavier particles to drop out of suspension, and a dual canister filter assembly to remove particles down to 20 microns in size
- Utilizes seven high-pressure nozzles, with each discharging more than two gallons per minute, to flush debris from the undercarriage

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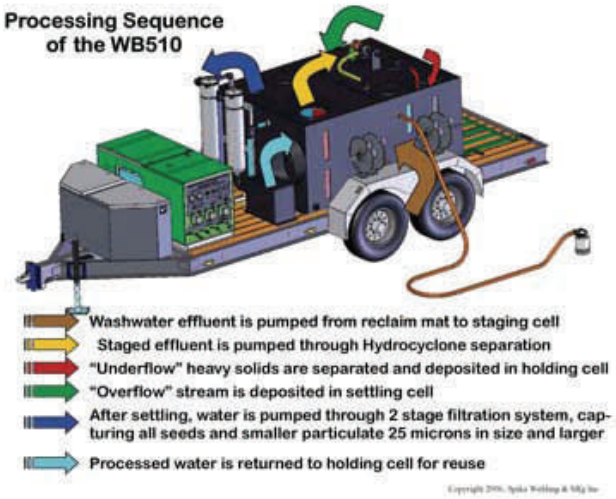

Spika has emerged as a leader in the field of industrial wash/reclaim systems. Our **WB510 WeedBlaster** is specifically designed for removal of mud and debris harboring noxious weed seeds on industrial equipment and vehicles. We have researched the requirements and processes needed for effective and efficient removal of dirt, mud, and organic matter that contains noxious weed seeds, as well as the best ways of capturing these seeds, removing the associated solids, and reusing the onboard supply of water. Our findings indicate that the effectiveness of the process is directly related to adequate pressure as well as volume. While lower pressure, lower volume systems have attempted to meet the challenge, only with industrial-level components can the process approach required efficacy.

To effectively deal with the considerable amounts of solids, the Spika **WB510 WeedBlaster** employs a multi-process separation system. This includes a hydrocyclone to remove larger solids, a settling cell that allows heavier particles to drop out of suspension, as well as a dual canister filter assembly, removing particles down to 20 micron in size. All wetted components are constructed of polypropylene or stainless steel, eliminating concerns of rust and corrosion. A powdercoated aluminum equipment housing encloses the engine, pump, generator, and controls, as well as the battery and fuel tank, preventing unauthorized access.

We've also worked on developing an underbody wash assembly that effectively targets hard to reach areas under the equipment and vehicles. Our "Bidet" is easy to set up and move, but effectively directs high-pressure jets of water at suspension components, backs of wheels, and other areas under vehicles where mud accumulates. When coupled with external washing with hand wands, the system reaches all areas of the target with minimal effort and time. Seven high-pressure nozzles, each discharging more than 2 gallon per minute, quickly and effectively flush the debris from undercarriages. We recommend a "pre-soak" pass to wet and soften the soils, letting the water penetrate while the external washing is performed with the hand wands. Once that process is complete, the vehicle is again passed over the bidet, flushing the softened soils from underneath the vehicle.