ENERGY & INDUSTRIAL SERVICES

High Pressure Services

Clean Harbors’ High Pressure Services provide numerous options and cutting-edge automated technology to get customers back on line quickly and safely.

Exchanger Cleaning
Clean Harbors is experienced in shell side and tube side exchanger cleaning. Our bundle blasters are operated by a single operator stationed in a fully enclosed cab. We rotate the bundles as we clean, ensuring the entire surface of the tube is blasted. Our system can blast up to 20,000 psi; is capable of cleaning exchangers up to 72 inches in diameter, 40 feet in length and 60,000 pounds in weight; and has the capacity to collect debris and water when required.

Our tube side exchanger system can utilize pressures up to 40,000 psi. We offer 5-lance IBC, 3-lance TLE, and single-lance tube cleaning technology. Our 5-lance IBC is ideal for large volume bundle cleaning during shutdowns and has a cleaning capacity of up to 1,000 tubes per hour. Our 3-lance TLE can clean up to 300 horizontal or vertical tubes per hour and excels at removing hard products from tubes with its oscillating movements. Our single-lance technology is compact and lightweight for horizontal or vertical cleaning in tight spaces and can clean up to 100 tubes per hour.

Line Cleaning
Automated line cleaning equipment includes the Rotofan system. Blasting up to 20,000 psi, these tools can clean pipe diameters up to 60 inches and lengths up to 600 feet. The remote controlled nozzle rotates as it cleans, with variable-rate speed controls for rotation, linear advance, and pressure. For increased safety, the hose is bolted to the flange, positioning the operator a safe distance from the high pressure water.

Tank and Vessel Cleaning
Our 3-D waterblast system has two high-pressure waterjets on a revolving head blasting up to 20,000 psi. Reaction energy from the jet stream hits the vessel walls, rotating the tool horizontally, while the jets rotate vertically. Our 3-D tool can fit through an 8-inch opening and be hung from the supply hose, using opposing jet forces. This minimizes scaffolding requirements - saving time and money. The 3-D tool can also be installed directly at a man-way using our simple boom system.

Dry Ice Blasting
Dry ice blasting is a superior method of cleaning online production equipment, one that is capable of removing a range of substances including oil, paint, asphalt, tar, resins and soot. It is an effective alternative to traditional methods that clean using environmentally damaging chemicals. The dry ice sublimes into the atmosphere after cleaning, leaving only the removed material behind to be cleaned up. Not only is it less harmful to the environment, it is also less harmful to your equipment and can be performed while keeping equipment online. This significantly reduces production downtime and minimizes disassembly costs.

Cold Cutting
Experienced technicians use ultra-high pressure water and abrasives to cold cut a range of materials including steel, concrete, and composites. Cold cutting is an automated technique that produces no heat, eliminating the possibility of costly metal distortion; and it is spark free, so it’s safe to use in explosive areas. It creates cleaner, straighter cuts and is more environmentally friendly than traditional methods as its by-product is water – not shavings, dust, or oils.

Numerous Options and Cutting Edge Technology
Clean Harbors’ High Pressure Services utilize automated waterblast equipment to remove unwanted deposits from various process vessels, tanks and lines, including –

- Heat exchangers
- Evaporators
- Separators
- Cooling tubes
- Condensers
- Reactors
- Fin fan tubes
- Boilers

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