VAPOR BLAST

Advantages

- Increases safety
- 100% dust free, meets silica exposure limits
- Faster, more efficient than other methods
- Reduces costs of water and abrasive media by 50%
- Achieves 3.5 or better profile
- One-pass polishing of CUI and exchanger tubes for IRIS and Eddy inspections
- Small footprint; highly mobile
- Only light protective gear required
- Limited containment requirements, reduces interruption to other contractor trades
- Fast, economical cleanup

Cleans some Fin-Fan® air-cooled heat exchangers

Vapor Blast is a highly efficient cleaning and surface finishing process for almost any plant application. Combining the effectiveness of both abrasive blasting and washing, Vapor Blast yields equal or better results in a process that is safer, faster, more economical and more practical than conventional methods.

With Vapor Blast, abrasive media are mixed with water, direct-injected under hydraulic pressure into an airstream, and discharged through a hose and nozzle. A control system allows fine-tuning of flow rates and abrasive concentrations for optimum results.

Atomized particles conveyed at low pressure produce controlled, uniform scrubbing action, even for hard-to-reach surfaces such as the inside diameter of tubes across bends in U bundles.

CAPABILITIES

- Removes resins, rusts, chlorides, coatings, oils, stains, epoxy, mill scale and other contaminants, as well as scratches and grinding marks
- Achieves 3.5 or better profile for paints and coatings
- Performs one-pass polishing for IRIS and Eddy inspections
- Cleans the ID of some Fin-Fan® type air-cooled heat exchanger tubes
- Cleans weld areas prior to API inspections
- Removes CUI (Corrosion Under Insulation)
- Allows simultaneous cleaning and rust inhibitor application
- Can be used to safely remediate contaminated structures (lead, asbestos)
- Extended reach, effectively cleaning up to 225 ft (even vertical) from the pumping unit

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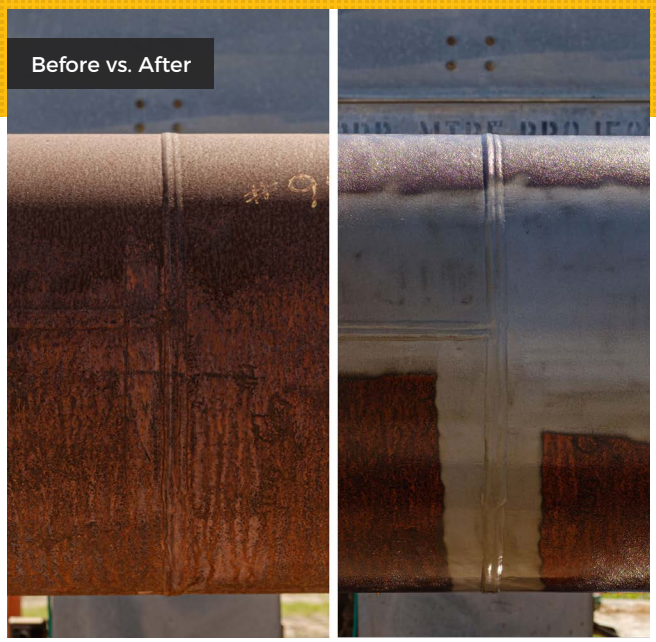

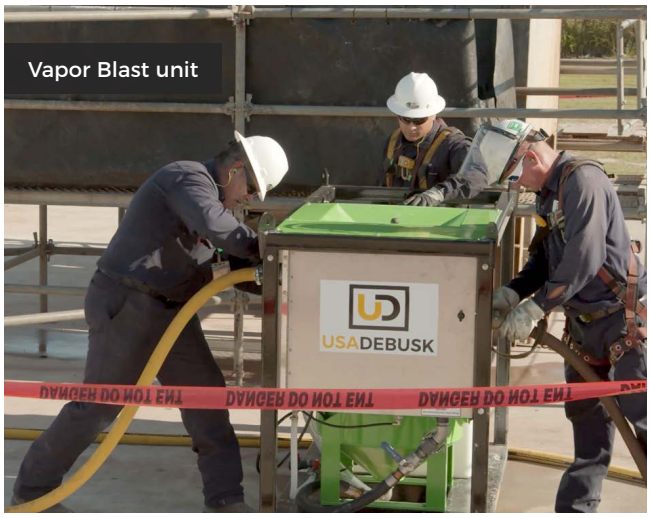

VAPOR BLAST IS SAFER, MORE ECONOMICAL AND MORE PRACTICAL THAN CONVENTIONAL SURFACE PREPARATION

SAFETY

Dry abrasive blasting poses significant safety risks for workers, who are exposed to dust containing airborne crystalline silica and other blasting agents. Vapor Blast is a dust-free process that safeguards workers and complies with OSHA permissible silica exposure levels.

Ultra High Pressure (UHP) water blasting introduces risks of lacerations, burns and vibration injuries associated with high-pressures. Vapor Blast operates at 70 - 125 psi, substantially reducing injury risks.

Vapor Blast also reduces worker stress and fatigue. Dry blasting requires a blast suit, full-face helmet and breathing apparatus. Vapor Blast is performed with light PPE. Operating at low pressures, workers experience minimal hose back thrust and no vibration.

EFFICIENCY

Vapor Blast is more economical than conventional blasting, consuming fewer resources while providing high production rates. A typical project uses less than 10% of the abrasive as sand blasting for the same production. Water consumption is only 10 gal/hr (@ 125 psi) for Vapor Blast compared to approximately 480 - 2,400 gal/hr (@ 25,000 to 40,000 psi) for UHP water blasting. Lower volumes of water and abrasive not only reduce consumables costs but also decrease costs of clean-up and waste disposal.

JOB-SITE ADVANTAGES

A Vapor Blast project occupies a small footprint and has limited containment requirements, making it more practical in congested work areas. It also allows access to remote areas and minimizes equipment repositioning with extended reach capabilities. Hoses can be run up to 225 feet from the pumping unit (horizontal and vertical) with the same cleaning effectiveness.

During cleaning, vapor droplets simply fall to the workplace floor, reducing the potential for interruptions, safety risks and delays to other contractor trades. Low abrasive and water requirements allow fast, easy cleanup.

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