



Vapormatt | Profelis

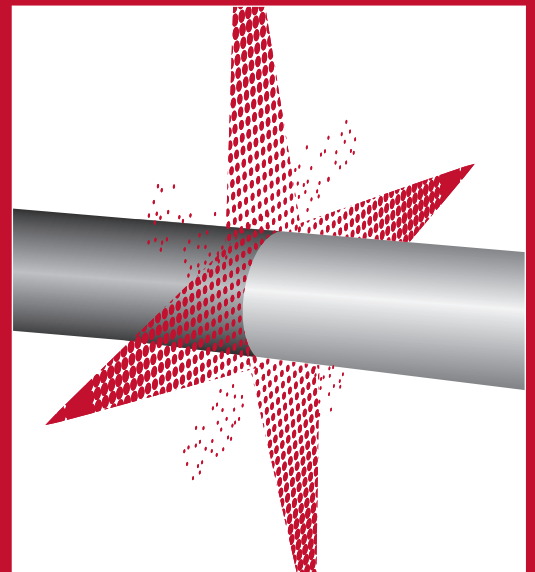


Vapormatt Profelis

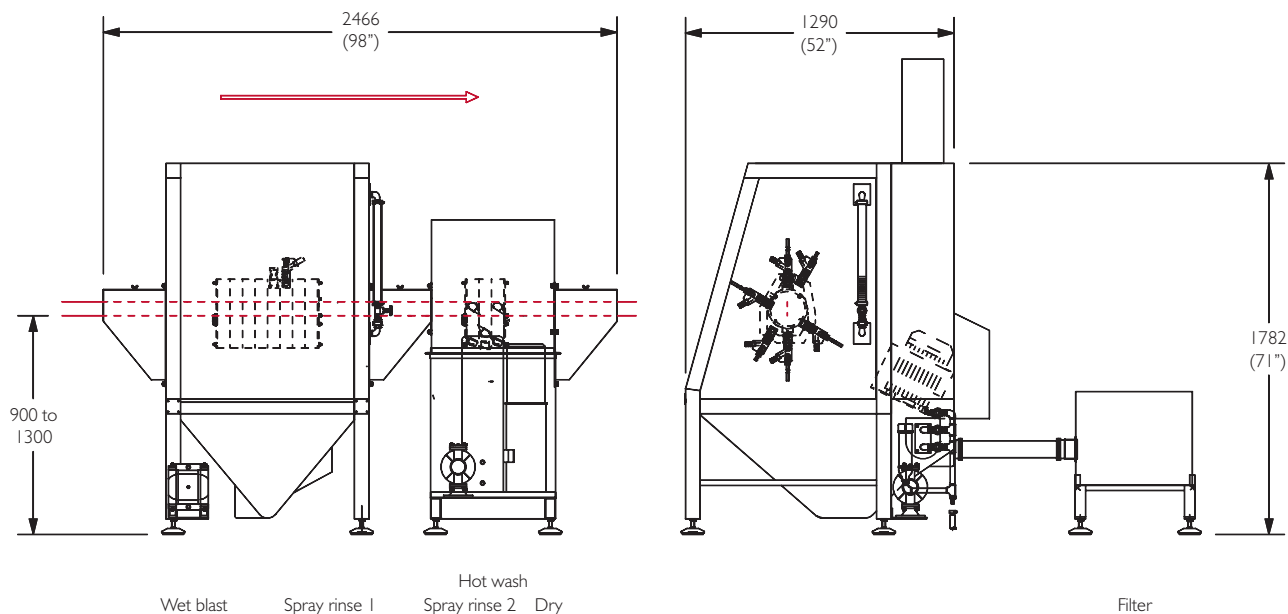
- In-line wet blasting, cleaning & drying machine for high quality surface processing of all continuous wire, cable and strip products
- Vapormatt wet blast process provides extremely consistent and reproducible surface treatment to clean, degrease, descale, etch or satin polish all wire, cable and strip products
- Processing product of varied geometry and material (from plastic & soft metals to steel and exotic materials) is accomplished without the use of harsh chemicals or dusty mechanical action
- Fully self contained and ventilated unit with short line length suitable for location in existing process lines

Typical applications

- Heat scale and surface contamination removal
- Cosmetic finishing
- Preparation for bonding, coating, encapsulation & cladding
- Pre cleaning & oxide removal of feedstock in preparation for follow on processes
- Drawing lubricant / soap removal
- Band Saw blade honing, descaling, peening, satin polishing
- Carding wire processing



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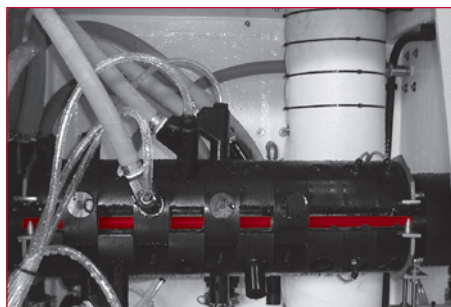
The Vapormatt Profelis in line machine will wet blast, rinse and dry continuous wire, cable and strip products.

It has been designed to fit into existing process lines and is ruggedly constructed from non corrosive materials compatible with the wet blast process.

Product is drawn through the Profelis machine where it passes through a wet blast process head, a pre rinse section, a "hot wash" final rinse section and a drying zone.

Considerable process customisation is possible.

The wet blasting process stage can incorporate various arrays of blasting nozzles with geometry specific to the product. It can use a variety of process recipes from very harsh to extremely soft and gentle according to the surface characteristics to be imparted onto the wire / cable / strip.



The rinsing stages wash away the wet blasting media with heated, clean water. Aqueous additives can be incorporated into either the wet blast slurry or the final rinse stage liquor to further modify the surface properties of the wire / cable / strip product. The most common additives are detergents or corrosion inhibitors.

The drying stage incorporates either compressor or blower driven air knives to remove the excess water from the moving product surface.

The processes are completely contained within the water tight machine enclosure. All pressurized conduits carrying abrasive slurry are contained within the main cabinet.

The entire machine is ventilated to ensure the appropriate air flow within the equipment to avoid general atmospheric and product recontamination after processing.

To maintain optimum cleaning performance the Profelis features a slurry conditioning system which automatically removes abrasive particles that have degraded below a pre-set level. This ensures consistent media integrity. Debris is deposited into collection tanks located at the rear of the machine. Media concentration, process temperature, additive and water levels can all be controlled to the degree required to maintain consistency.

Patents and new patent applications cover several of the unique features of the Vapormatt Profelis machine.

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