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or snap a picture of this QR Code



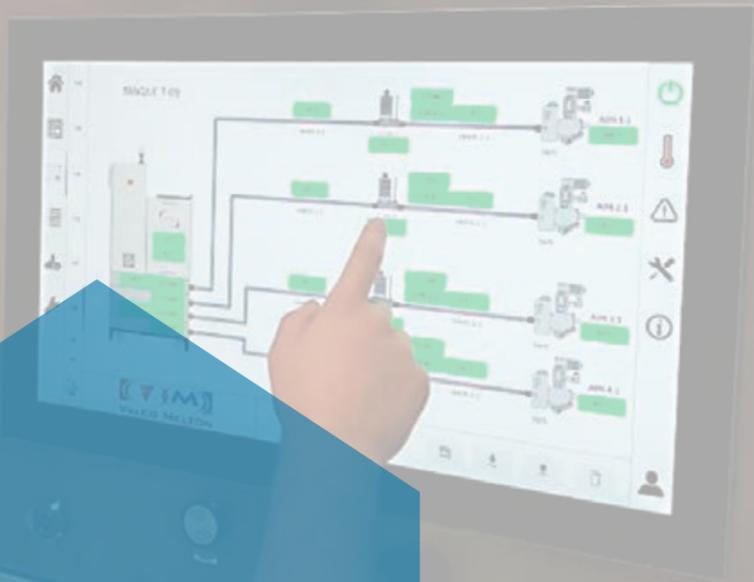
TOTAL SOLUTIONS OF GLUING & INSPECTION SYSTEMS FOR THE NONWOVEN INDUSTRY

THE SMART SOLUTION

The Smart Solution is the newest generation of PLC based melting and adhesive dispensing units developed by Valco Melton to help Hygiene Disposable Product manufacturers and machine builders to reduce both, initial capital investment and converting costs. The key concept behind this innovation is the ability to optimized adhesive usage for every application, thus reducing overall glue consumption, with a unique capability of integration and expandability.

SMART CONTROL

The Smart Control HMI is the first Plug'n'Play system of its kind, developed to give unprecedented access and control of up to 20 separate adhesive systems present in the line, thus, allowing the end users to design their interface and screens.



On this user-friendly touch screen, you will be able to visualize your complete line as well as each machine and configure the parameters needed for any specific application. The Smart Control will notify you whenever something is not working properly, allowing you to take corrective actions and avoid production stoppages.

It features a programmable maintenance program, including direct visualization of each component drawings and an easy adhesive recipe set up that will allow you to store and track each parameter for each different product manufactured by the line.



THE SMART ARCHITECTURE

What sets the Smart Melt Series apart is the possibility to perform system upgrades by simply adding SmartBoxes as production demands change. There are 3 different upgrade kits available, which can be easily attached to the melter at a later time, with no additional technical support required.

SMART MELT TANKS

The most compact design in the market. Achieve an accurate control of the glue applied and improve efficiency by reducing waste during the machine ramp up and the excess of adhesive at machine stops. Full pump speed control also based in grams per product, grams per square meter, or through volumetric closed-loop control.



SMART BOXES



Smart Heat

Add up to 2 Smart Heat boxes to your tank, each one capable of controlling 8 heating zones.



Smart Flow

Add up to 2 Smart Flow boxes to your tank, each one capable of hosting 4 flow meters and 4 pressure transducers



Smart Drive

Add up to 2 Smart Drive boxes to your tank featuring 2 frequency drives and 4 inputs for pressure read-out to add extra pump control and process diagnostics



“ Each Smart Melt Melter is capable of controlling up to 7 Pumping Stations, 8 Flow Meters and 16 extra heating channels ”



EBS PUMPING STATIONS

EBS remote metering stations provide a flexible solution for multiple application points with added consistency and pattern stability.

FLOW CONTROL

SmartFlow controllers feature a programmable mapping of input and output signals to control different production lines with independent product specifications. This intelligent system continuously monitors the amount of adhesive dispensed and compares it to the application's set point; When the actual flow rate deviates from the set point, the FlexFlow system automatically adjusts the pump speed accordingly.



NON-CONTACT APPLICATIONS FOR PRECISION CONVERTING

▶ MITO SERIES High Speed Intermittent Applicators



MITO Series Applicators are designed to handle the most demanding high-speed intermittent applications. While providing every pattern required just by choosing the specific nozzle type from our broad BAT Series family.

MITO Series Applicators are available in metering or pressure-fed configurations. Applicator width ranges vary from 25mm to 500mm. Each item in this series includes the MI-III Modules enabling a longer life and performs at 12,000 cycles/min

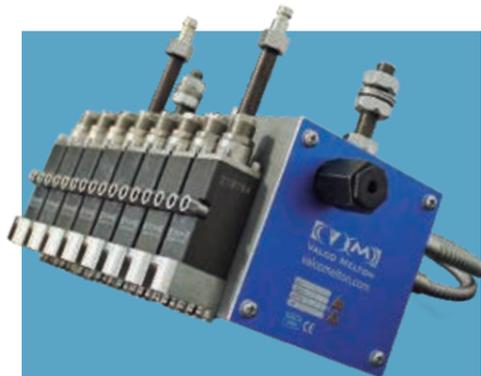


▶ FLEXSPRAY DUAL SERIES Spray Applicators with Independent Air Pre-Heater

Spray applicators specially designed for continuous operating applications.

Valco Melton's FlexSpray Series Applicators feature a new independently controlled heating system that increases thermal efficiency while providing full flexibility to adjust your process.

As our MITO applicators, FlexSpray applicators are designed to provide every pattern required just by choosing the specific nozzle type from our wide BAT Series family.



CONTACT APPLICATIONS FOR PRECISION CONVERTING

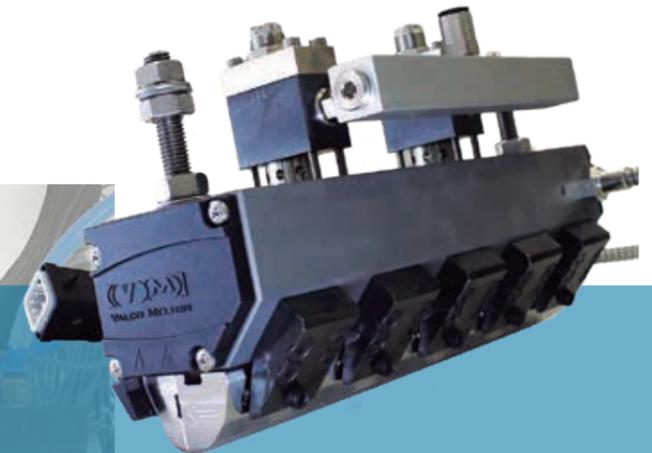
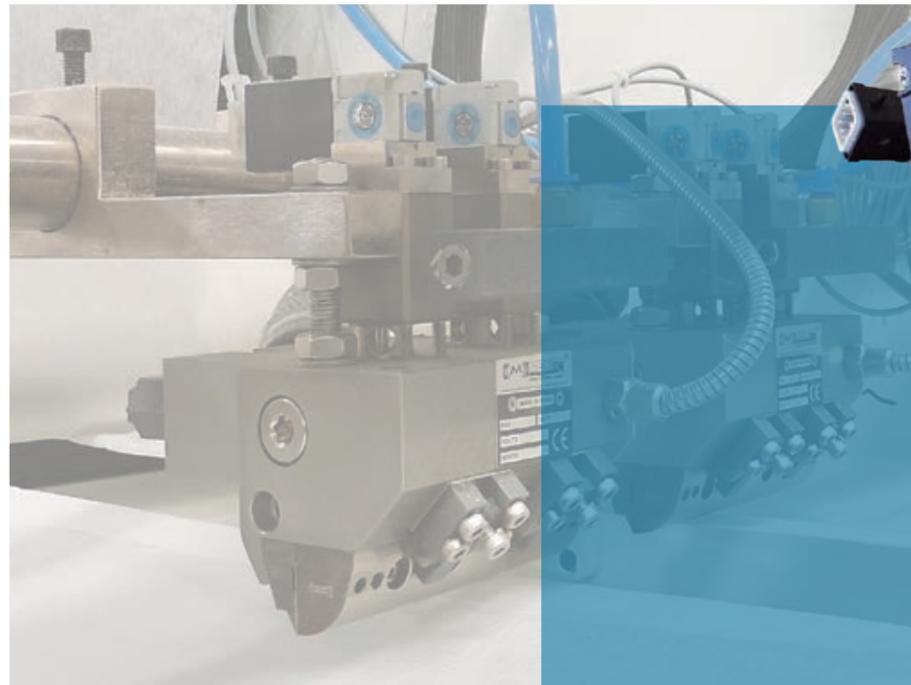
▶ FLEXCOAT SERIES Perfect for Continuous and Intermittent Applications

FlexCoat Slot Coating applicators are designed to provide the best performance in terms of cut-off and easy, quick size changes.

The "Eagle Beak" design of the slot die plate allows an easy, set up of the head with every kind of substrate and, together with the double-acting snuff-back modules, they perform with an excellent and clean cut-off even at the highest production speed.

All Valco Melton Coating nozzles are fully hardened to a 58HRC which provides excellent abrasion resistance.

The flange-on replaceable slot dies plate to avoid the need to remove several screw and reinstall the slot nozzle, thus reducing the time required to change from size to size. Also, the symmetrical die plate allows for mounting it in both directions making it easier to install.



Dual Nozzle

Configure separate or overlapping adhesive patterns, having application zones to match your specific production needs. An innovative dual nozzle integrates two separate shims; each one configured to create a different pattern, which can be applied in succession and simultaneously. Patterns can be easily changed by swapping shims.

ELASTIC APPLICATION

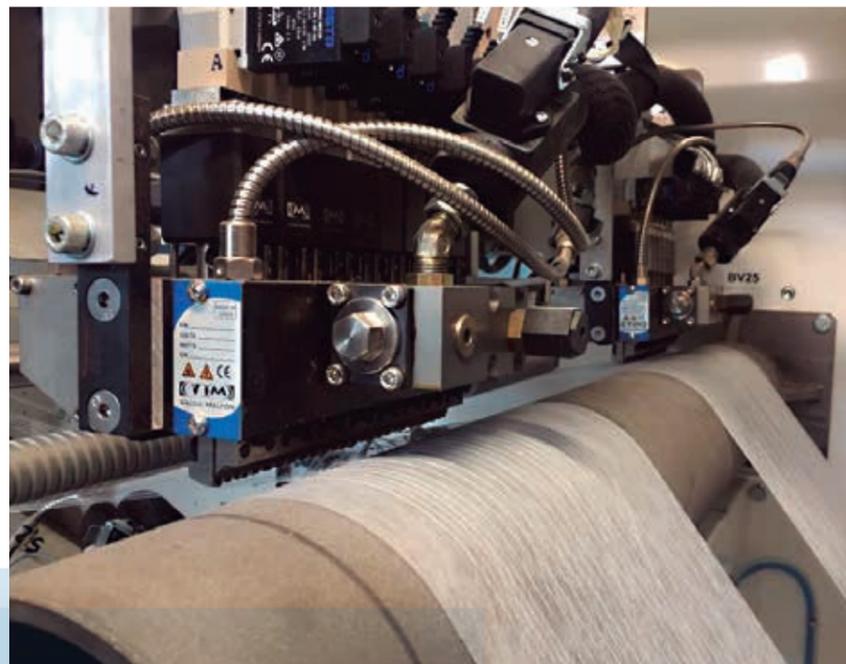
STRAND COAT

LAMBDA NOZZLE



This nozzle provides great creep test results, with a more robust design than any other industry standard for a better adhesive distribution.

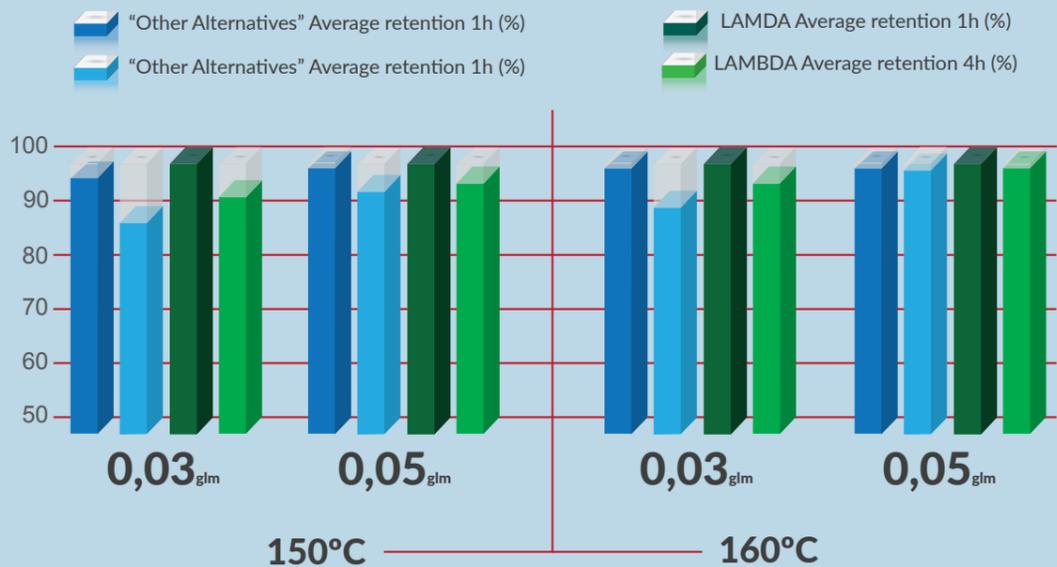
Less adhesive
SAME CREEP



Achieve a more stable process, easier set up, cleaner cut off and better adhesive distribution across the different elastic's strands. All of our nozzles are manufactured in stainless steel.

Several nozzle configurations are available (Number of Elastics Strands per nozzle & Spacing between Elastics Strands).

CREEP TEST COMPARATIVE



MULTI SPRAY APPLICATION

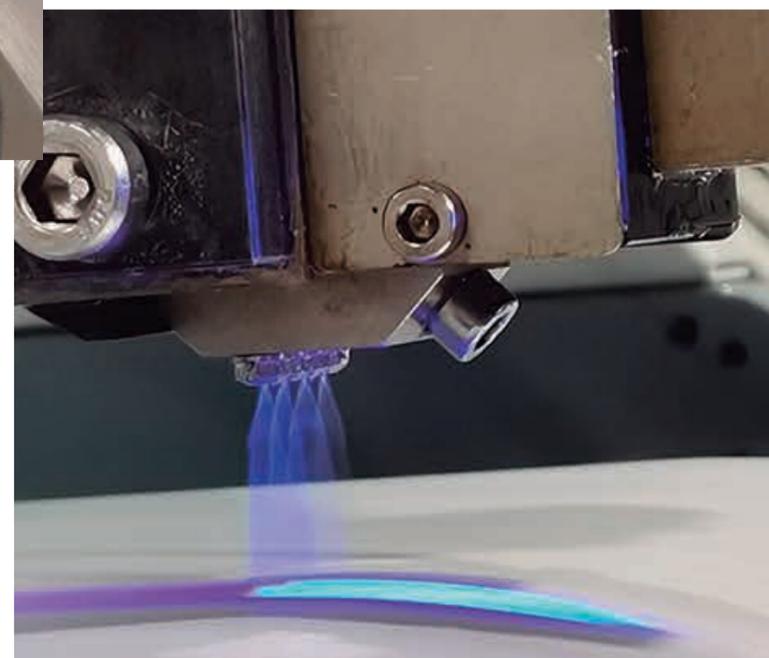
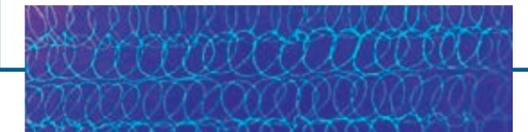
BAT L NOZZLE

Our Nozzle is an insert-based stainless-steel nozzle, therefore, by using blank inserts, the customer can configure the nozzle as he wants, closing the outputs not required by the application. Also, if one of the outputs is damaged, it is enough with changing just the damaged insert, which reduces the maintenance costs to our customers. The adhesive channel in these nozzles has a longer extrusion, ensuring a consistent pattern with lower grammage levels.

**6 AIR
JETS**



The main advantage that we provide is that we have inserts with 6 air orifices per adhesive stream for a higher frequency on the swirl, which allows customers benefit from a higher bonding as the number of crossing points of the swirl pattern increases. This feature also allows the end users to run the machine at higher speeds.



Achieve more precise edge control and better adhesive distribution than with large spray applications, as well as a better cut-off. Fibres are also smaller, so this is the ideal solution for applications where a thinner distribution with better hand is needed.

SPRAY APPLICATION



ALPHA NOZZLE



Valco Melton's Alpha Spray Nozzle guarantees a cleaner spray pattern with an excellent edge control, ideal for continuous laminating applications. It helps to drastically reduce adhesive contamination around the application area thus significantly improving machine uptime.

Stainless Steel made, shim-based designed, this nozzle creates a random pattern of broken fibers, making the adhesive filament oscillate from side to side with a sinusoidal Non-Crossing pattern.

Each nozzle has
UP TO 5 LARGE ADHESIVE ORIFICES



Each nozzle has
UP TO 9 LARGE ADHESIVE ORIFICES



SIGMA NOZZLE

Valco Melton's Sigma Nozzles have been specially designed for high-speed intermittent applications, to prevent adhesive bleed-throughs and thermal distortion during intermittent adhesive applications, especially when used to bond thin materials, reducing associated machine downtime and helping to improve product quality.

Sigma Random pattern provide a consistent bonding, great edge control, and an improved appearance of the end product.



Large adhesive passages prevent nozzle clogging improving machine uptime. Provides close edge coverage for a better product quality.

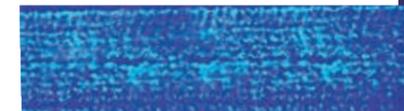
Available in 25mm full width as well as in partial coverage configurations.

KAPPA NOZZLE

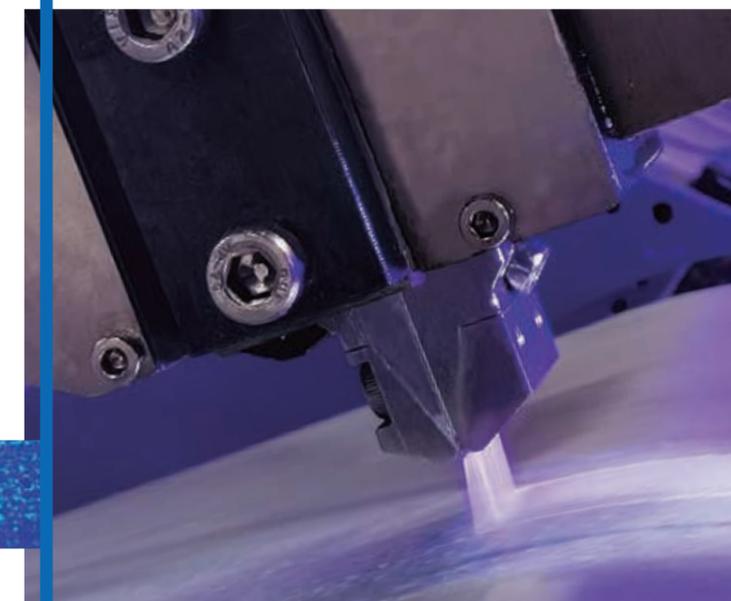


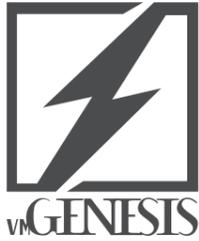
Valco Melton's Kappa Nozzles deliver a wide range of non-contact adhesive patterns, from high dense to very soft random fibers open patterns. They are also the best option when looking for high precision on the adhesive pattern definition. Kappa Nozzles have the best edge, leading and trailing control as well as an excellent cut off. Designed to support both continuous and high-speed intermittent applications.

Produces random patterns formed by broken adhesive fibers and also high dense uniform adhesive coated areas even on porous or irregular surfaces.



Great
BONDING STRENGTH REPEATABILITY



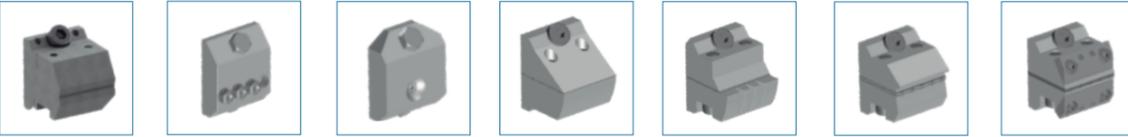
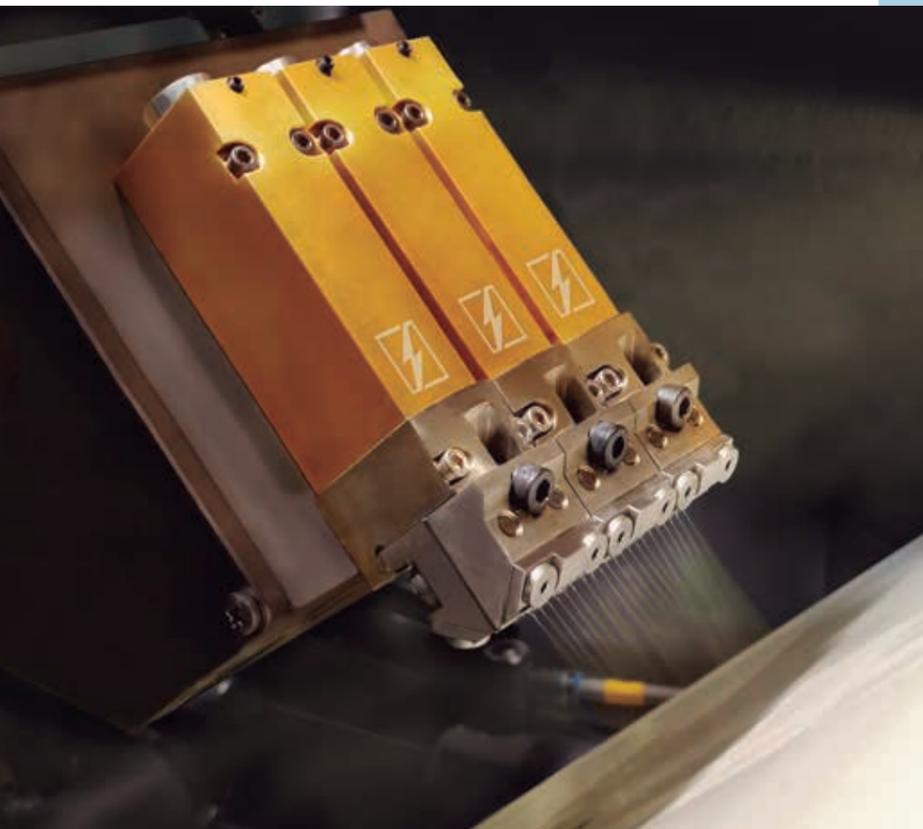


ELECTRIC DISPENSING APPLICATORS

vmGenesis® Electric Applicators have been specially designed to work with the high viscosity adhesives typically present in the hygiene disposable product manufacturing processes.

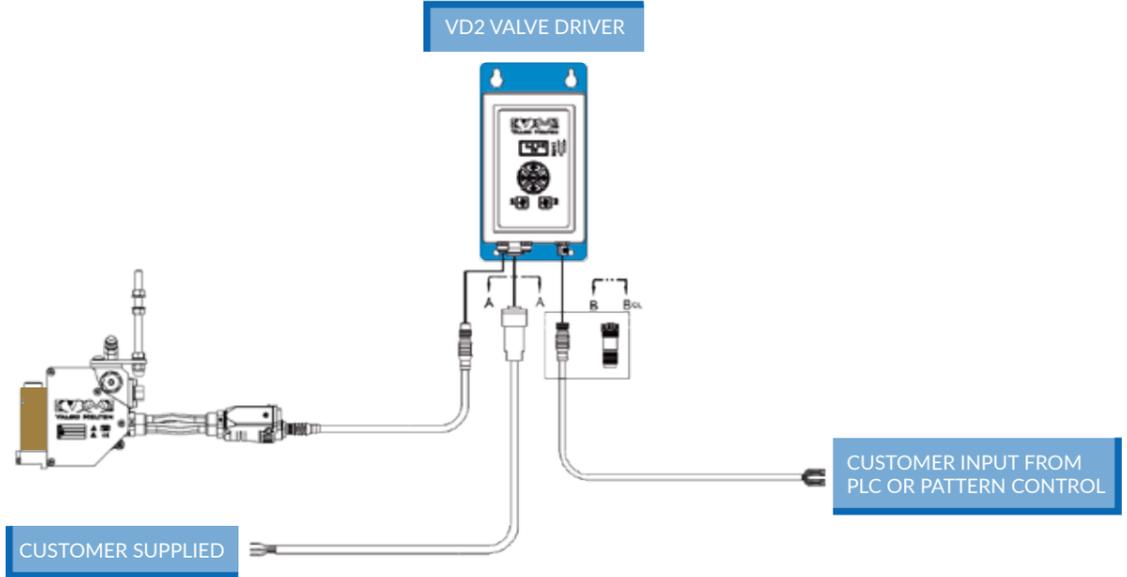
vmGenesis® modules are electrically operated, which not only eliminates the need for a pneumatic control air but also benefits from a design free of dynamic seals, allowing a module **life expectancy of over 2 billion cycles**.

The applicators feature a modular design and a high efficiency Air Heater independently controlled for a better process adjustment. Their angled manifold design helps reducing the air turbulence caused by high-speed moving webs, improving the adhesive pattern stability.



- Engineered to meet industry standards bracketery
- Improved insulation plates for better thermal stability
- Same adhesive filter in all our applicators helps reducing inventory costs
- Not a single dynamic seal inside.
- 3 available hose ports for easier integration in tight spaces
- Stainless steel module tip and nozzles

10 TIMES
THE LIFETIME
of any other alternatives
in the market



VD2- E Gun Driver Enclosure Kits

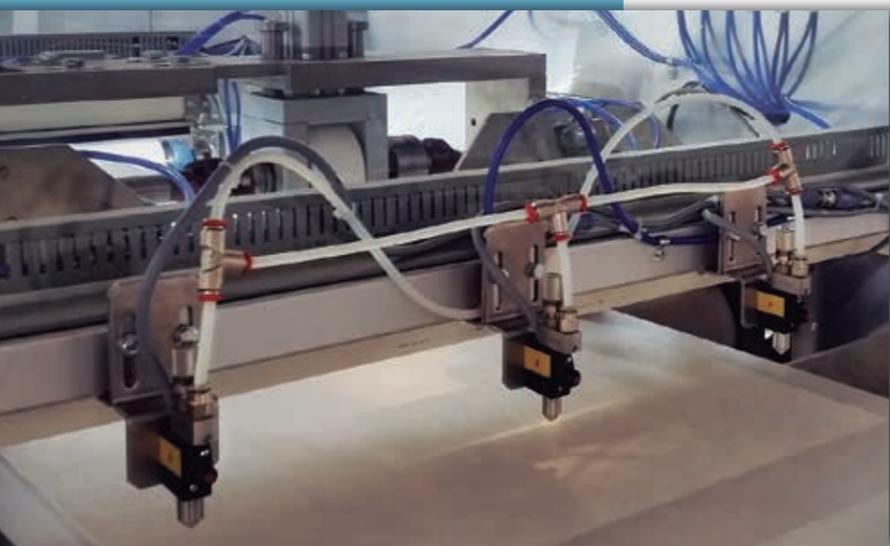
PERFUME MICRODOSING SOLUTION

Hygiene disposable manufacturers use perfume to mask the odor of hot melt adhesive and some other raw materials on the process.

Our solutions is developed to be an environmentally friendly and cost-efficient dispensing technology, replacing applications that atomize perfume to provide a much safer working area for the machine operators.

Spray application is substituted by a small dot dispensed on each pad. This ensures that every product receives a precise and equal dose, even during machine startup or at variable line speeds.

Dispense drops
as small as **1mg**
per product



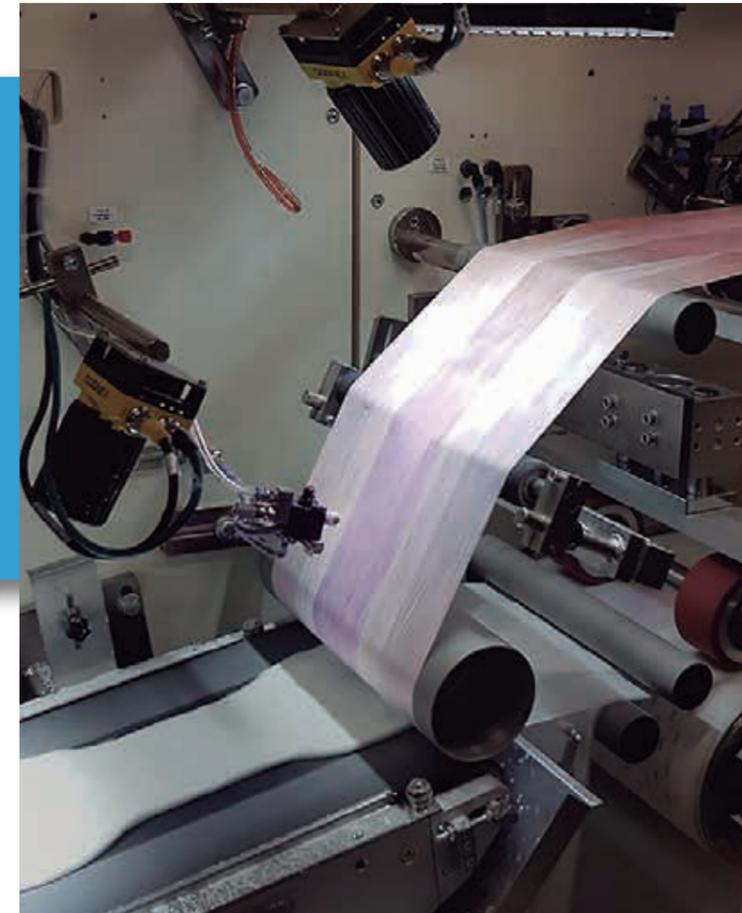
Achieve fluid savings of up to 80% against traditional perfume or lotion dispensers with Valco Melton's Air-Less Perfume Dispensing Technologies.

Most of the perfume dispensing systems out there feature a pressure tank and a spray pneumatic valve, which is normally pulsed by a pattern controller.

OUR SOLUTION

Valco Melton's Perfume Dispensing System solves all the issues described above. It's integrated 300EZR has a pulsing rate of up to 21.000 cycles per minute and a life time of 1.5 billion cycles

- Get rid of the spray, we can dispense drops as small as 1mg per product, so we can work directly with the perfume concentrate.
- Get rid of the mixer and any operation associated with the mixing process. We have helped customers to save 120 Tons on alcohol per year in just one manufacturing location.
- Safer Working environment provided for the machine operators.
- No more perfume lost in the air. Huge waste reduction with an average 60% savings vs Spraying systems. Standard perfume concentrates add-on values vary from 0.0015gpp to 0.03gpp.
- Safer Product. The drop is precisely placed onto the web, allowing customers to decide where is the best spot to have it in order to reduce the perfume interference with the product as well as with the end user's skin.
- Maintenance-free dispensing valve. Our valve key components are ceramic & stainless steel made, with zero dynamic seals.



ESTIMATED ROI

With Basic KIT*	1,5 Months
With Basic KIT + Flow KIT*	2,5 Months
With Portable Enclosure KIT*	2 Months
With Portable Enclosure + Flow KIT*	3,5 Months

*Based on a 24/7 Production Line 0,85 Efficiency running with the above conditions

▶ BASIC KIT

This kit includes all the needed parts to apply the perfume. The liquid is directly suctioned from the perfume supplier cannister. The parts are packed separately and are intended to remain installed in the same production line. Eventually, if the customer is providing its own pattern controller signal and EPC valve we can supply the kit with a VD-2 Driver instead.

▶ PORTABLE ENCLOSURE KIT

This system is designed like a standalone perfume dispensing system which has its own tank and can be easily moved from line to line. The concept is very similar to the Hot Melt Dispensing Units, where all the elements to dispense the adhesive are placed inside the same enclosure. As with the Basic kit, if the customer is providing its own pattern controller signal and EPC we can supply the kit with a VD-2 Driver instead.



▶ FLOW CONTROL CLOSED LOOP KIT

This kit includes an Ultrasonic flow meter and a PLC based controller that allows customers to set up the desired amount of perfume that needs to be delivered on each product. The system automatically adjusts the fluid pressure in order to ensure that all products receive the same pre-set amount of perfume regardless of the line speed. It also provides different alarm levels in case of defects as well as real time information of the actual flow.

Its ultrasonic flowmeter doesn't interfere with the perfume flow at all, and doesn't require any cleaning or maintenance compared with other gear-based flow meters available in the market.

Being able to control the amount of perfume dispensed is particularly important, not only from the quality assurance and cost control point of view, but also to prevent customer's skin overexposure to this type of products.

The Real Flow Data can be recorded for a programmable period of time, once the sampling has been done the system will generate an Excel compatible file which can be downloaded into a USB memory stick for further analysis



STANDALONE FLOW METERING SYSTEMS

Gain unparalleled control of all technical processes in the nonwovens industry. Valco Melton's Flow Measurement devices are sensors that measure volume rate based on a calibrated gear principle. Designed to work with hot melt adhesives up to 210°C.

The process is then monitored from a Control Cabinet, which provides different options to integrate and communicate with the parent machine.

Our Flow Metering can be incorporated into existing lines independently regardless of the adhesive dispensing brand.



LEGACY CONTROL CABINET

Electronic components "off the shelf", with a new level of process control and expandability capabilities, similar as our SmartMelt Series.

Reduce waste during machine ramp up and avoid over gluing during the ramp down with the "Ramp Compensation Software utility". Main machine network communication 100% compatible, optional pressure transducers and many other configuration options for each application's specific requirements.

DRUM UNLOADER SYSTEMS

Valco Melton's SmartDrum and SDrum Unloaders achieve industry-leading high melting rates.

Featuring an innovative integrated control system, these drum unloaders are ideal for continuous operation that require the use of multiple drum unloaders working simultaneously. This new system can control up to 8 drum unloaders, sending a signal to the necessary units based on the current production needs.

