



Gluing and quality inspection solutions for the

# NONWOVEN INDUSTRY



**VALCO MELTON**

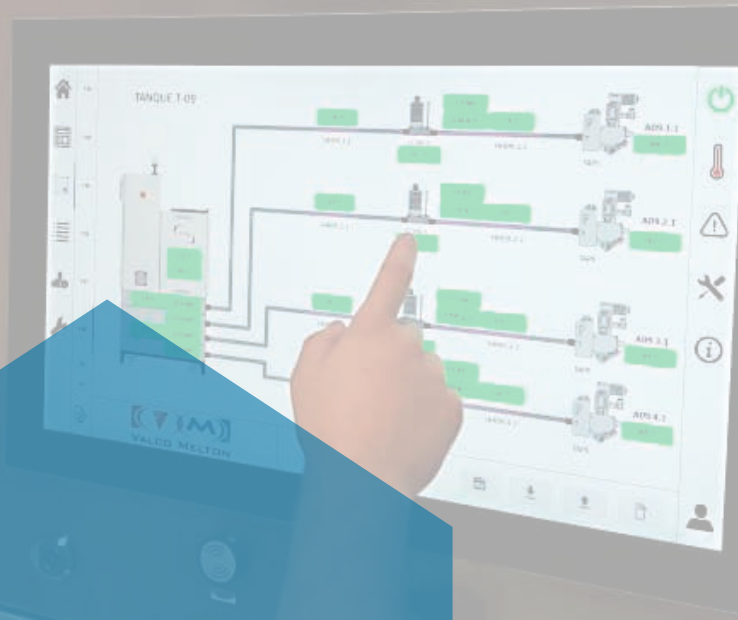
Adhesive Dispensing & Quality Assurance Systems

# 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

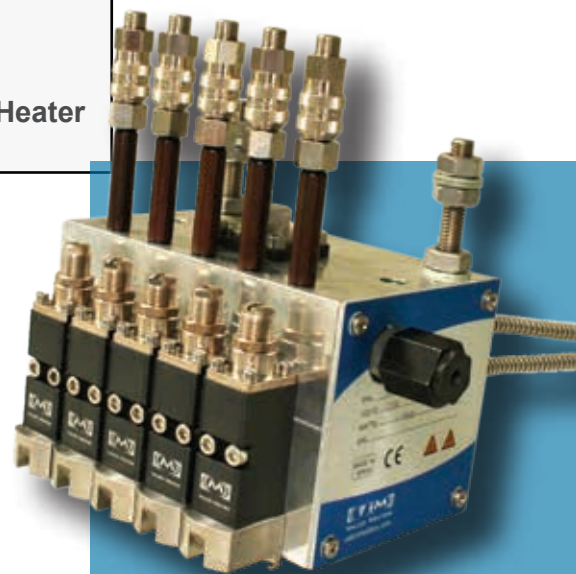
### FLEXSPRAY DUAL SERIES

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.

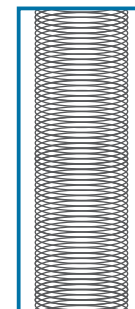
As our Mito applicators, FlexSpray applicators are designed to provide every pattern required just by choosing the specific nozzle type from our wide BAT Series family.



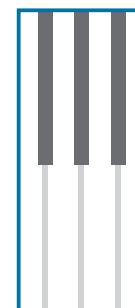
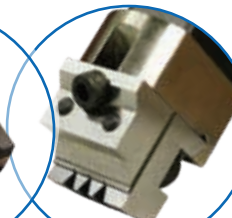
## HIGH TECH

Accurate, high-speed adhesive application. Valco Melton adapts to your specific requirements with the last technology to achieve the best performance and final product.

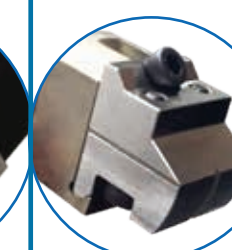
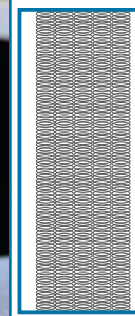
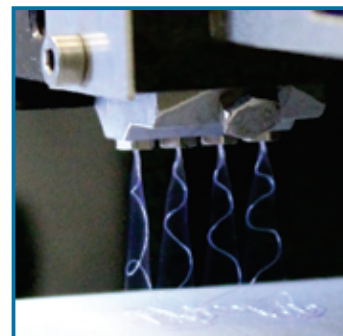
### BAT S



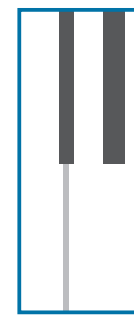
### BAT V AIR



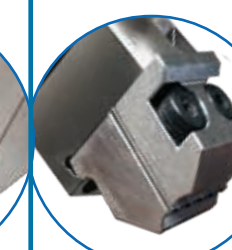
### BAT L



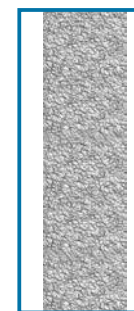
### BAT V SLOT



### BAT SLOT



### BAT ALPHA





## CONTACT APPLICATIONS FOR PRECISION CONVERTING

### ► FLEXCOAT SERIES Spray Applicators with Integrated Air Heater

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.

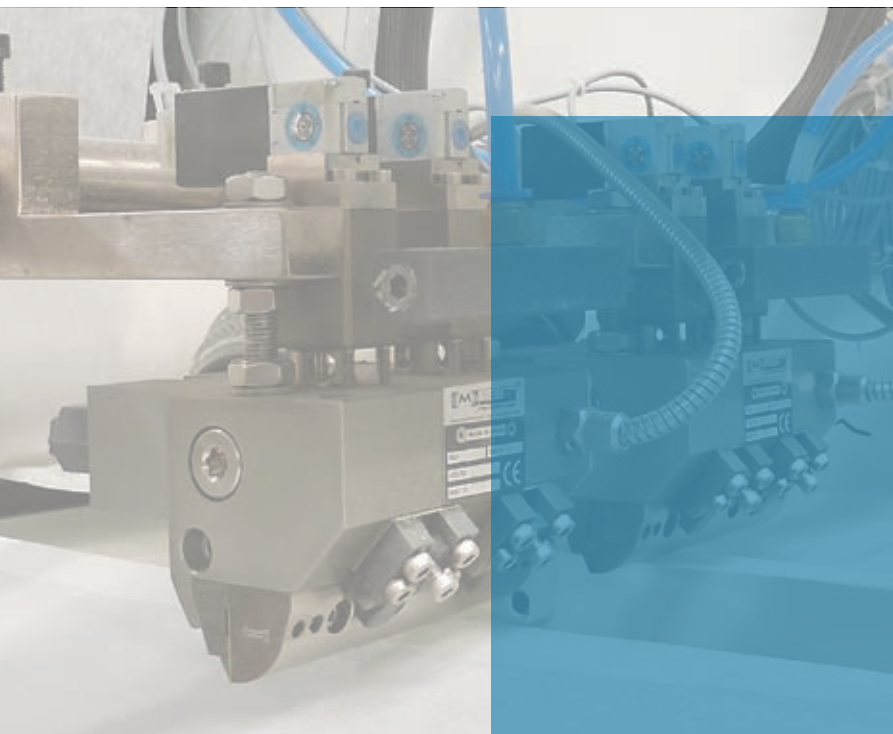
All Valco Melton Coating nozzles are fully hardened to a 58HRC which provides excellent abrasion resistance.

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.



300 Series Valve

## 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.

## PERFUME DISPENSING SYSTEMS

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

Spray application is substituted by a small dot dispensed on each pad. This eliminates the risk of perfume being atomized to the environment and ensures that every product receives a precise and equal dose, even during machine startup or at variable line speeds.



## 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.



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