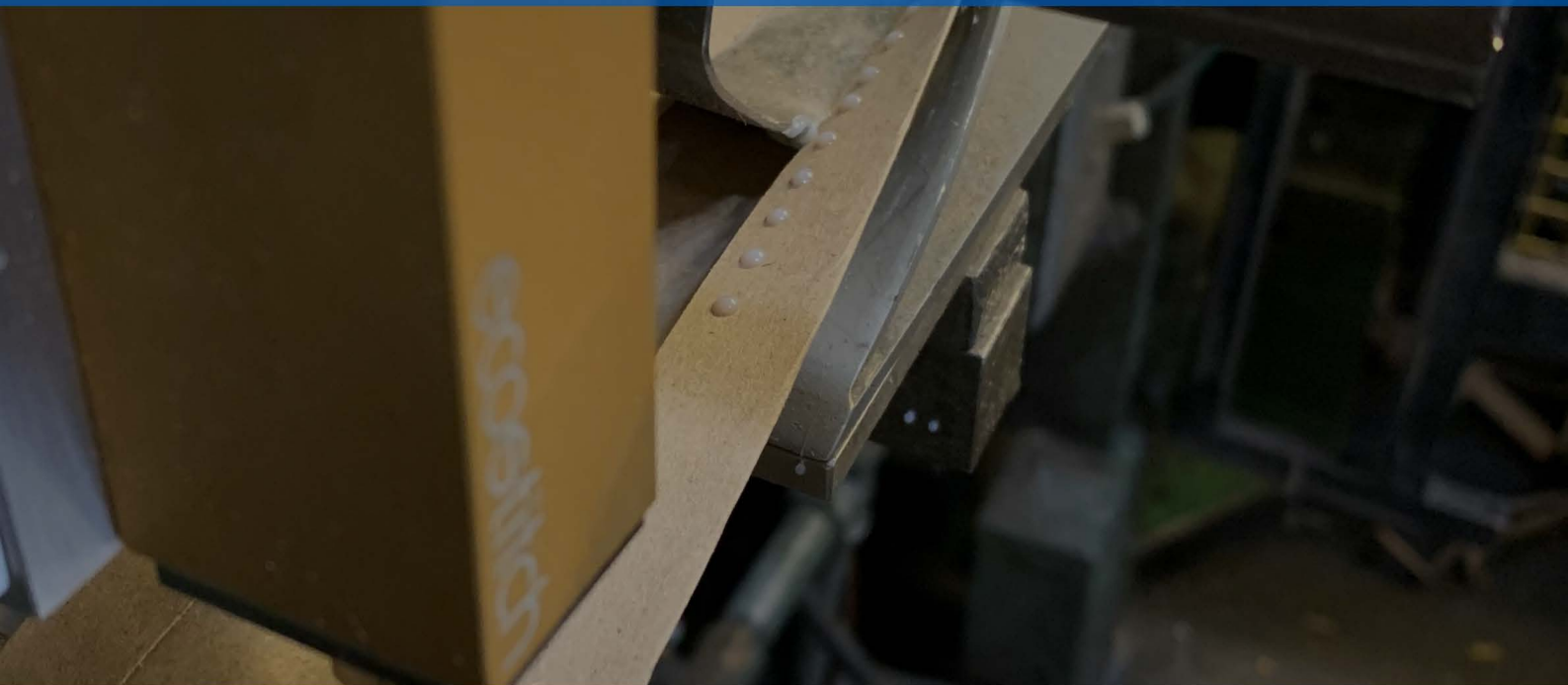


TOTAL SOLUTIONS PROVIDER OF GLUING & INSPECTION SYSTEMS TO THE

# BAG MANUFACTURING INDUSTRY



**VALCO MELTON**

Adhesive Dispensing & Quality Assurance Systems

**ERO**

**GLUING SYSTEMS**

A Valco Melton Company

# WHO WE ARE

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As world leading manufacturers of adhesive dispensing and quality assurance systems for the bag manufacturing industry, Valco Melton and ERO Gluing Systems team up to provide unparalleled hot and cold glue dispensing and quality inspection solutions.

Valco Melton's 70 years of technical experience and development of cutting-edge application technologies in adhesive dispensing and quality assurance systems, combined with ERO's expertise providing cold glue and vision systems tailored to the bag industry allow us to provide bag manufacturers with solutions that suit their unique application requirements. With a complete range of components for non-contact, direct contact, swirl-spray, bead and ribbon pattern gluing, spot gluing, and lamination applicators, we can offer solutions that suit any budget.



## APPLICATIONS TO GUARANTEE **THE PERFECT BAG OR SACK**

The introduction of electronic gluing systems to replace glue pots is a revolution for manufacturers in the bag and sack industry. With a Valco Melton or ERO system, the benefits and cost savings are realized immediately; including reduced adhesive waste, increased production, higher quality end product, and reduced maintenance.

## **BENEFITS**

1. 40-70% ADHESIVE SAVINGS

2. HIGH PRECISION

3. WORLD-CLASS CUSTOMER SERVICE  
GLOBALLY

4. INCREASED PRODUCTION EFFICIENCY

5. NO MORE GLUE DISPOSAL AND  
RELATED COST

6. EASY OPERATION

7. SIMPLE CONFIGURATION

8. FAST DRYING

9. LESS PARTS



# SIDE SEAM / LONGITUDINAL GLUING ON A TUBER MACHINE

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Single and multiwall bags typically use a glue pot and wheel to apply the seam to form the tube. Valco Melton systems greatly improve this process, by providing continuous or intermittent valve technology to accurately control placement and volume of the bead, ribbon, or dots. Hot melt systems can also be used for faster tack or to bond film layers.



**ELIMINATE CLEANUP AND  
MAINTENANCE ASSOCIATED  
WITH GLUE POTS AND INFERIOR  
VALVE TECHNOLOGY**

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**CONTROL VOLUME, IMPROVING  
TACK TIME**

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**REDUCE GLUE CONSUMPTION**

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**STITCHING AT LOWER SPEEDS  
ELIMINATES GLUE DRIPPING**

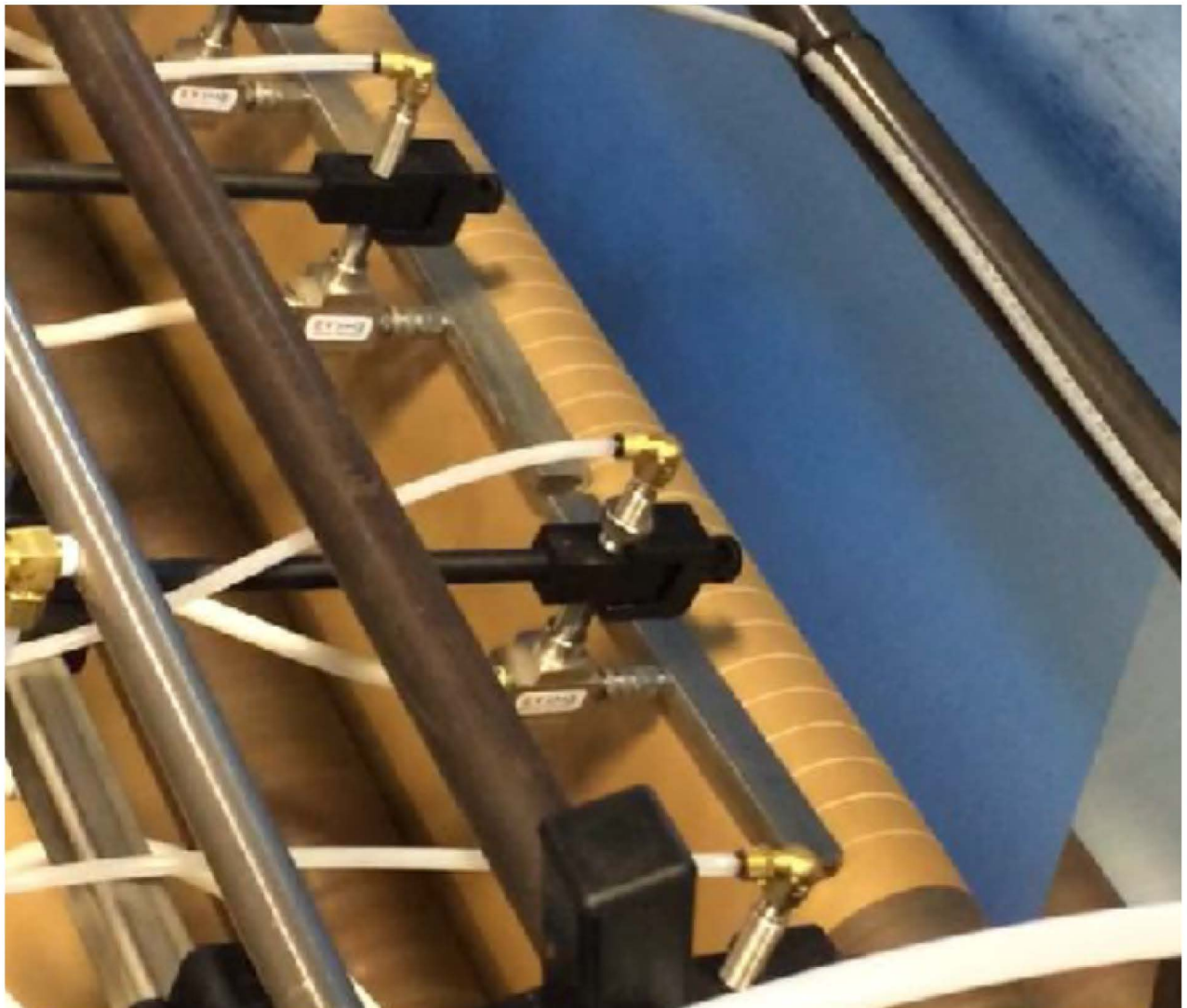
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**SKIP THE CUT MARK USING  
HIGH-SPEED ELECTRIC VALVE  
TECHNOLOGY**

# LAMINATION SOLUTIONS

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Existing pipe applicators for film-to-paper application are messy and difficult to control. When the machine stops, adhesive can leak, resulting in web breaks and faulty product. Valco Melton's extrusion lamination system solves this issue by applying precise beads of adhesive independent of machine speed. Valves shut off the adhesive as the machine stops, eliminating drips. These improvements allow for less waste, less downtime, and reduced glue usage, providing a quick payback on investment. Options are also available for intermittent gluing, with considerable adhesive savings.





# HANDLE FORMATION

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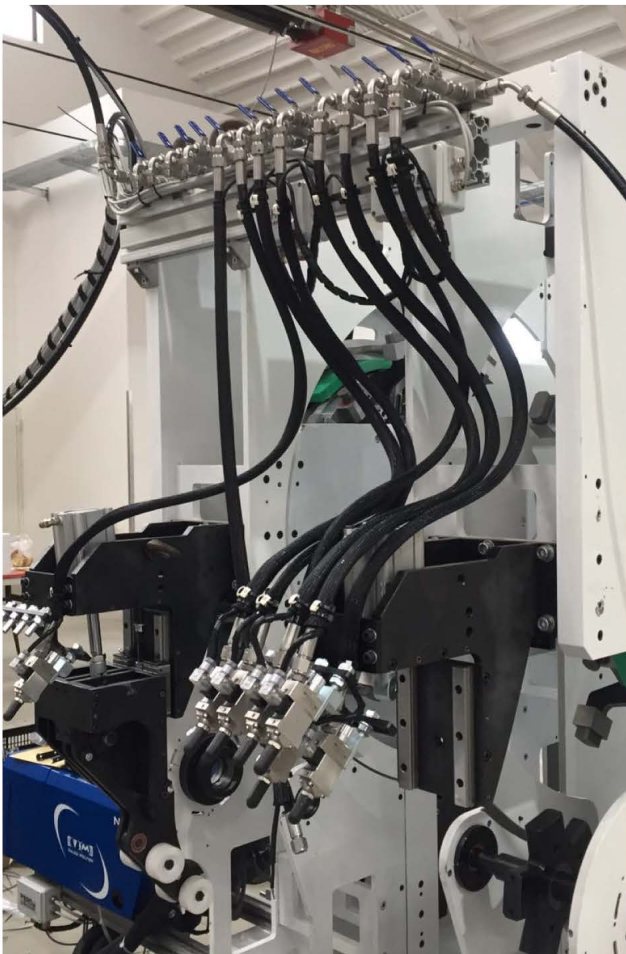
In the bag manufacturing process, handles are made of paper or string and attached to the handle patch with cold glue, hot melt, or both. The patch is then glued to the inside of the bag. Valco Melton supports this process with high-speed electric valves that 'stitch' adhesive onto the handle patch and bag, placing it precisely where needed and greatly reducing adhesive usage and the percentage of hot melt used in the bag.



# HANDLE ATTACHMENT

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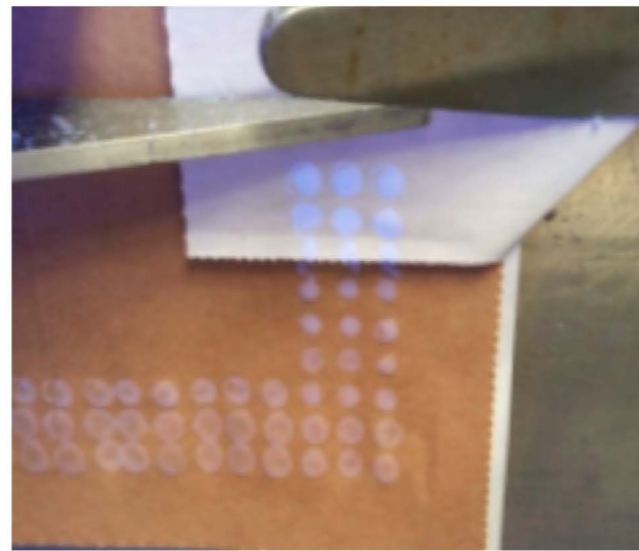
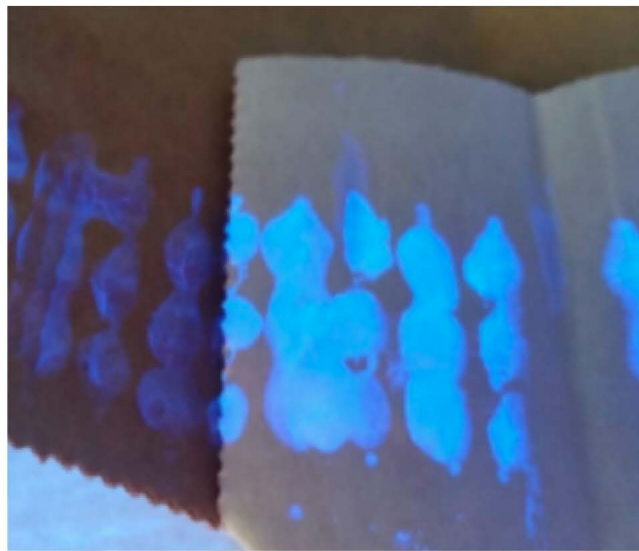
We also offer versatile applicators that can apply separate lines of adhesive or full coverage. Combination cold glue/hot melt systems are particularly beneficial for this application as cold glue creates a strong bond and hot melt gives a fast tack to hold the handle/patch in place while the cold glue sets.





# BOTTOMING SOLUTIONS

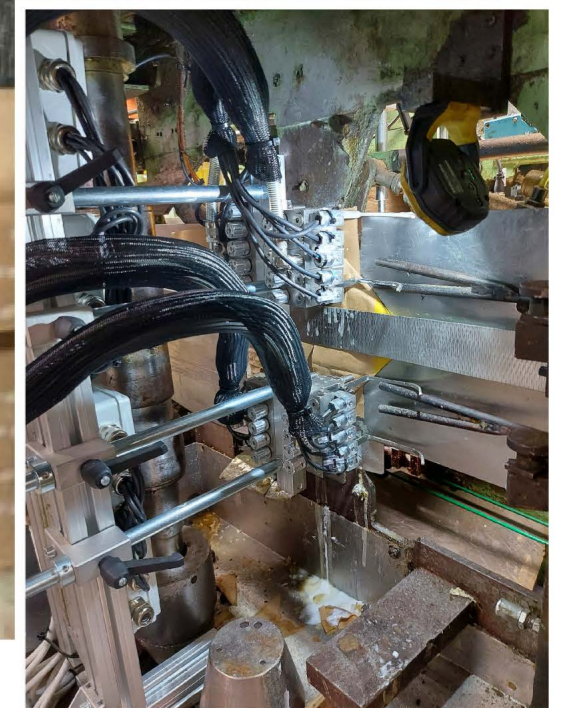
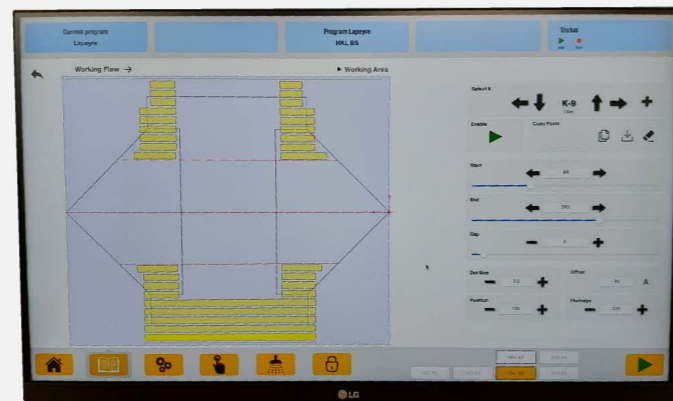
Costly setup and downtime can now be eliminated with the introduction of electronic gluing systems for bottoming. Precise dot or line patterns can be applied, creating a siftproof coverage of adhesive. Customized software allows patterns to be easily programmed for all types of bags. Programmed patterns can be saved and called up in the future when that bag is run again.



## ERO CONTROL

Our software for bottom pasting has been developed internally. It allows easy customization of the glue pattern to adapt the adhesive application to the final product.

All of our units, even if they are located on different stations of the machine, are driven by a Mac.





# BOTTOM PATCH STATION

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Bottom patches reinforce the top and bottom of the bag, while improving the siftproof characteristics of the bag. Multiple banks of valves can be added to apply dots of adhesive, improving bond, while reducing adhesive usage.

The unique support bracket allows fast, easy, and precise valve positioning.



# FILL VALVE STATION

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Similar to patching stations, the fill-valve attachment uses one or more banks of non-contact glue valves to apply dots or lines of adhesive to the valve before attaching it to the body of the bag. If a bag is not present, the valves will not fire the glue, thereby eliminating glue contamination on the machine.

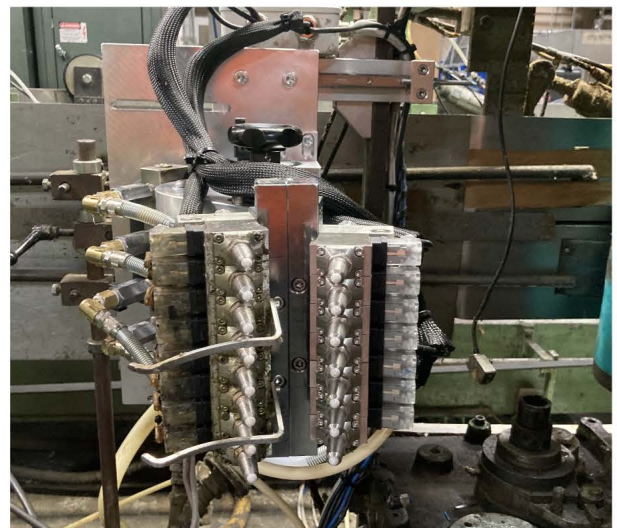


**ACCURATE GLUE DOSAGE**

**CONSISTENT GLUE VOLUME AND  
PATTERN PLACEMENT**

**MINIMAL CLEANING DOWNTIME**

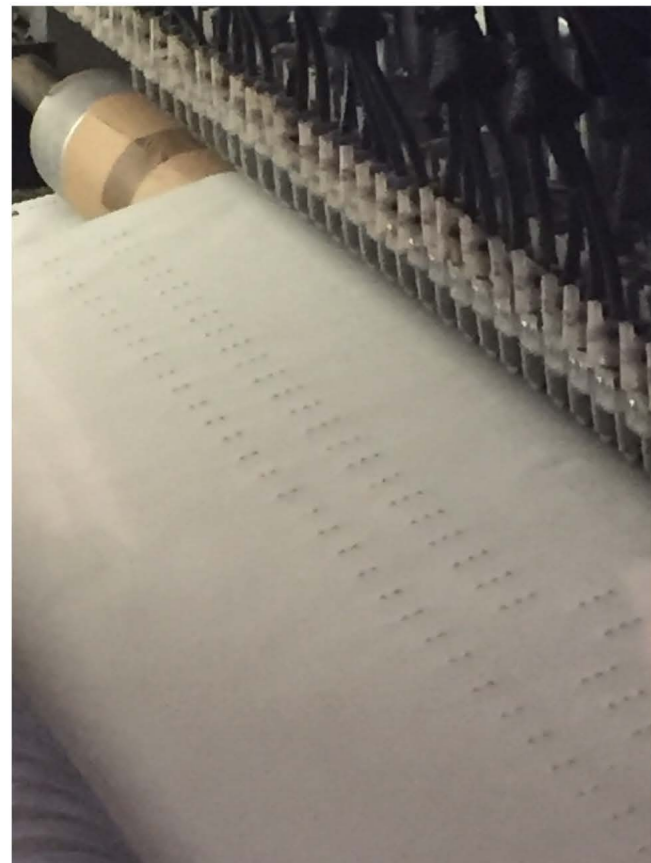
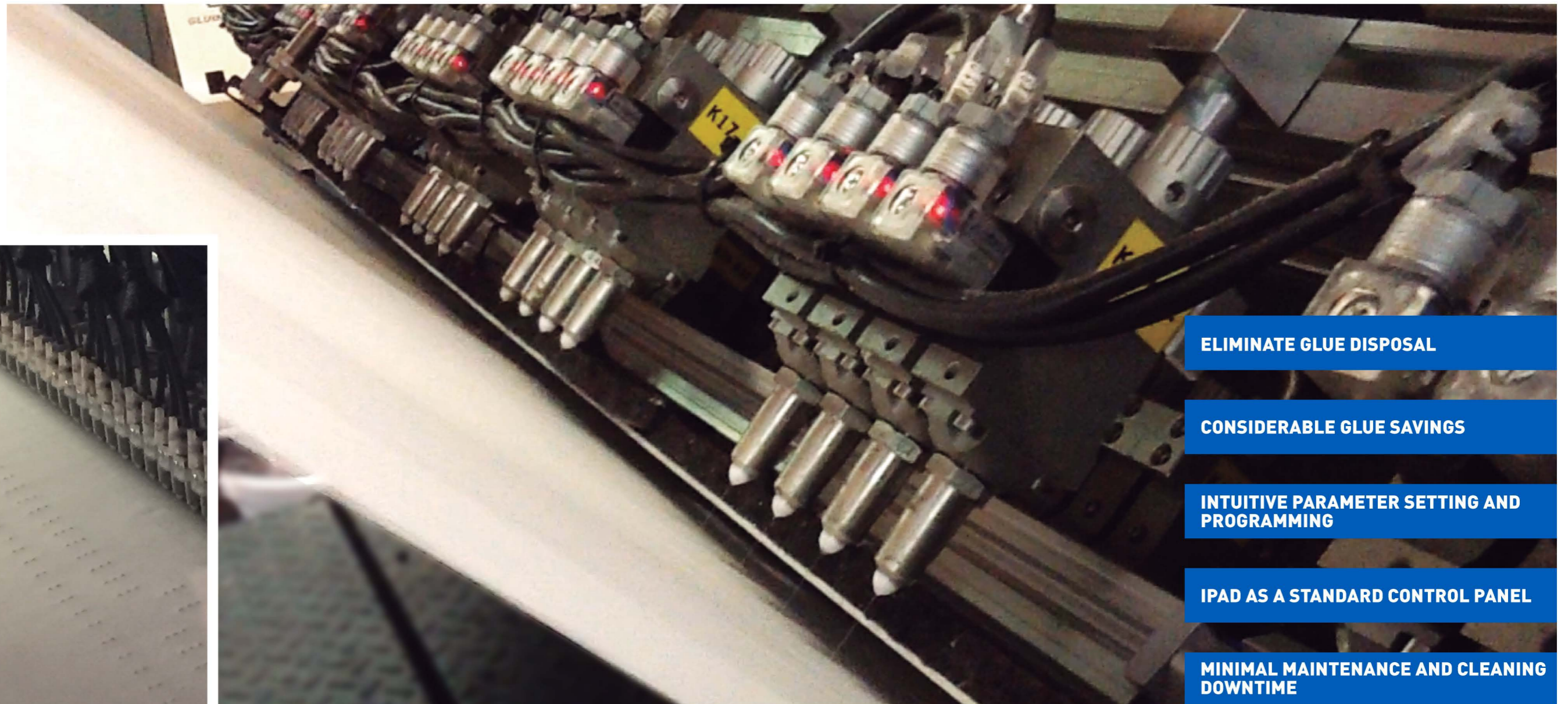
**EXTREMELY LOW MAINTENANCE**





# CROSS PASTE SYSTEMS

Current cross paste (inner-ply paste) systems have considerable downtime for setup and cleanup. Glue pots and pads have to be cleaned and often glue needs to be disposed of. Electronic glue systems considerably reduce glue usage, eliminate glue disposal issues, and apply consistent size dots every time. Patterns can be programmed to apply single or multiple dots, in any configuration, and then saved for future use.



**ELIMINATE GLUE DISPOSAL**

**CONSIDERABLE GLUE SAVINGS**

**INTUITIVE PARAMETER SETTING AND PROGRAMMING**

**IPAD AS A STANDARD CONTROL PANEL**

**MINIMAL MAINTENANCE AND CLEANING DOWNTIME**

# CONTROLS

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Valco Melton's pattern control systems and valve drivers provide outstanding performance with all types of glue patterns, whether simple or complex. Our product range extends from compact controls with push-switch data entry to microprocessor-based controls with touchscreen programming.



## **MCP-4** PATTERN CONTROL

The MCP-4J includes a 4-station jam prevention feature and offers the latest high-speed processor, USB and Micro SD ports, durable magnetic overly, and tip-sealer function.



## **ERO IPAD CONTROL**

Seam glue application can be monitored from an intuitive iPad. Programming is easy and fast.

All our units, even if they are located on different stations of the machine, are driven by an iPad.



## **MCP-8** PATTERN CONTROL

The MCP-8 features a full color display and easy-to-use graphic interface offering 8 channels of gluing with up to 10 individual glue patterns. Ideal for complex gluing jobs.



## **ERO MAC CONTROL**

Seam glue application can be monitored from an intuitive Mac. Programming is easy and fast.



## **OT-120** CONTROL

The OT-120 is designed to fit the needs of graphic arts, print finishing, and paper converting industries with selectable industry-specific software.



# VALVES

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Valco Melton manufactures a complete line of cold glue valves and applicators to cover nearly any glue pattern width or style requirement.



## 524 LN LR Valve

(Long Nose Low Restriction)

The 524 valve is for high-speed, non-contact gluing for folder gluers. equipped with a built-in purge switch and rear stroke adjust, it's capable of handling pressure up to 500 psi. Suitable for high-speed patterns or dotting.



## GTE-13/S

COLD GLUE APPLICATOR

The GTE-13S single and multiple applicators can operate at the highest speeds. These non-contact electromagnetic guns can reach 210 m/min when working in dot mode.



## 300 VALVE

The 300 series electric valve offers speed in a 15mm wide package. With advanced solenoid technology, the 300 series valve can apply extremely short patterns at high machine speeds.



## GTE-13/M

COLD GLUE APPLICATOR

The GTE-13M single and multiple applicators can operate at the highest speeds. These non-contact electromagnetic guns can reach 210 m/min when working in dot mode.



## 369 VALVE

The 369 Series Ribbon Coater is a direct-contact extrusion applicator designed for wide, ribbon-type glue patterns. The ribbon coater is suited for use with resin adhesives with viscosities from 1500 to 2500 cps.



## GTE-153

COLD GLUE APPLICATOR

The compact size of the GTE-153 allows easy installation in narrow spaces, fitting in almost any machine. It is the ideal solution for bottom pasting, which usually requires a complete adhesive patch coverage in order to seal the bag bottom, preventing the contents from leaking.



## GBE-2

COLD GLUE APPLICATOR

The GBE-2 is an extra fast double nozzle electromagnetic glue valve featuring a 10V standard 0.8 diameter nozzle.

# VALCO PUMPS & REGULATORS

Valco Melton offers a complete range of non-contact, direct contact, swirl-spray, bead and ribbon pattern gluing, spot gluing and lamination applicators. This large selection of components enables us to provide bag manufacturers with solutions that suit any budget and unique application requirements.



## 1:1, 3:1, 6:1 BALANCING REGULATOR

The pressure balancing series' rolling diaphragm design offers superior response when used with flow controls that sync adhesive pressure to machine speed changes.



## EPP-9 PUMP

The EPP-9 is an air-powered piston pump featuring an electronically controlled reversing device for fast, reliable pulse-free operation. Suited for use with adhesives and similar fluids.



## DD-1 DIAPHRAGM PUMP

The DD-1 Diaphragm Pump represents an innovative breakthrough in pump design. The electronic reversing control is extremely reliable and is not affected by normal wear characteristics of mechanical devices.



## PFRM-5 PUMP

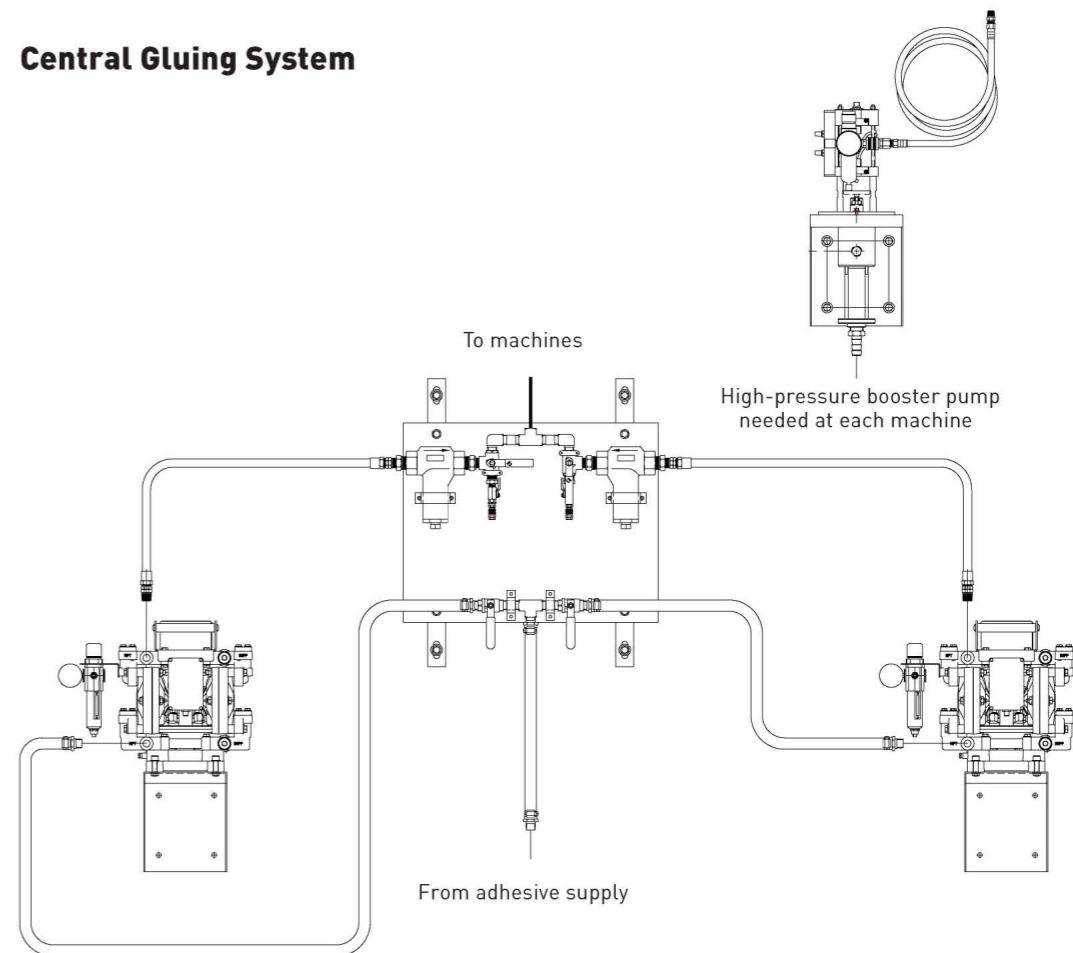
The PFRM-5 is an all-in-one pump combination system consisting of a 7:1 pump, filter, 5:1 pressure balancing regulator, and a four-port manifold.



**PERFECT PRESSURE  
EVERY TIME**

Valco Melton

## Central Gluing System





# ERO PUMPS

**Applications include:** Tuber Formation / Pinch Bottom / Pasted Bottom / Other Paper Bag Applications

ERO gluing systems offer the best solution for your production line. We adapt and calibrate the gluing system and pump according to your glue characteristics, viscosity, and the final product.



## **ERO-PB** HIGH PRESSURE GLUING SYSTEM

ERO-PB High-Pressure Gluing System works at the highest machine speeds with precision. It features a double piston pump specially developed by ERO and designed to avoid pressure loss.



## **ERO-PBS** LOW PRESSURE GLUING SYSTEM

ERO-PBS low pressure gluing system works over 250 m/min. It features a double-diaphragm pump, easy to maintain and capable of working with a large range of viscosities.



## **ERO PBM** MEDIUM PRESSURE GLUING SYSTEM

Features a single piston, self-lubricating pump with 5:1 ratio pump. It will supply multiple valves with consistent adhesive volume through all machine speeds.







# THE HOT MELT ALTERNATIVE

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Valco Melton is a leading innovator in hot melt technology and offers a comprehensive selection of hot melt systems, components, and support equipment to assist your manufacturing operations. With specialized equipment for bead, stitching, coating and other applications, and a wide selection of compatible parts – including hoses, filters, pumps, nozzles, adhesive guns, and more – we have the versatility to address any production challenge.



## ECOSTITCH VALVES

The electric hot melt valve is the workhorse for any hot melt dispensing solution. This valve can operate at extremely high speeds reaching 15,000 cycles per minute for short bursts and a lifetime capable of 2 billion cycles.



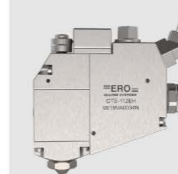
## ME SERIES VALVE

The ME Series introduces the most advanced technology for high velocity intermittent bead applications to the hot melt gluing market. It ensures a perfect and uniform adhesive cut, giving a clean, quality appearance for stronger product finishing.



## ECOSTITCH MELTERS

The new EcoStitch series melters are the most intelligent, versatile, technologically advanced, and most innovative adhesive melter to ever be created. EcoStitch systems are equipped with Ethernet IP integration, digital pressure control, adhesive usage data available on screen and full OEM integration with all digital based data.



## ERO GTE-112EH

This non-contact electromagnetic hotmelt gun is made of high thermal conductivity material, with a ceramic stem sphere and nozzle. This choice of materials results in the prevention of glue sticking to the outside and inside of the nozzle.





GUARANTEE THE PERFECT BAG OR SACK WITH

# BAGCHEK

QUALITY ASSURANCE & VISION INSPECTION

ClearVision Inspection Systems for quality assurance include solutions for color detection, window or insert detection, carton ejection, skew, full sheet print inspection, gap detection, double feed-monitoring and, glue line inspection.

Inspection devices and code readers detect faulty bags or boxes to ultimately eliminate issues that occur in your product assembly to help you manufacture the perfect end product. Sophisticated pattern control packages with state-of-the-art management software provide remote control, off-site monitoring, and tracking for later analyzation by quality managers.

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or snap a picture of this QR Code

