Gluing and Quality Inspection Solutions for the

WOODWORKING, PVC & ALUMINUM INDUSTRIES

Valco Melton

Adhesive Dispensing & Quality Assurance Systems

ADHESIVE MELTERS

EVA & PO Melters

Variety of melting and flow rate options to adapt to the variety of adhesive dosing needs in the industry. From the smaller 4L tanks to the most demanding 200 L extruders, all with gear pump technology for a constant, pulse-free flow.

EcoStitch Series

• 4, 10 & 16 L Gear Pump Melters.

• Ethernet IP Communication to fully integrate with your existing PLC. Can be controlled from the parent machine.

• Optional adhesive monitoring and measurement capabilities.

FlexMelt Series

• 4, 8, 14, 30 & 50 L Gear Pump Melters.

• Functional and compact.

• Up to 4 pumps for simultaneous use of independent applicator heads.

SmartMelt Series

• 15, 30 ,65 & 120 L Gear Pump Melters.

• Profinet and Ethernet main machine network communication protocols.

• Easy plug-n-play upgrades for additional heating zones, flow control, pumping stations and more.

D Series

• 48, 90 & 180 L Gear Pump Melters.

• Melting rate options to cover demanding continuous application processes.

• Up to 16 independtly controlled heating zones.

MEX Extruder Series

• 100 & 200 L Adhesive Extruders.

• Achieve the highest melting rates when working with adhesive delivered in granulate format.

• Melt on demand technology preserves adhesive properties.

• Extrusion technology eliminates the need for cleaning when switching adhesive types.

PUR Melters

Designed to work with reactive adhesives, all our PUR melters ensure an air-tight closure to prevent adhesive degradation, which results in great adhesive savings and consistent operation.

CONVENTIONAL MELTERS

IsoMelt & IsoMelt Mini

• Hermetic lid, air dryer and PLC atmosphere control.

• Thanks to their tank design, IsoMelt units can work with up to 40 L of adhesive. IsoMelt Mini units can work with up to 4 L of adhesive.

• Tiltable tank and removable grid for fast and easy maintenance and cleaning operations.

IsoMelt Plus & IsoMelt Plus Mini

• Tank designed to fit standard 20 Kg PUR slugs (IsoMelt Plus) or 2 Kg PUR slugs (IsoMelt Plus Mini).

• No need to unwrap the PUR slug, it goes directly into the melting tank.

• As the cylinder moves down, the wrapping foil creates a hermetic tank sealing, preserving PUR properties without the need for dry air.

• Its reservoir tank eliminates production stops during slug changes.

• Tiltable tank and removable grid for fast and easy maintenance and cleaning operations.

• Touch-screen control panel with Ethernet IP and Modbus TCP communiation protocols.

MELT ON DEMAND

DRUM / PAIL UNLOADERS

BPail

• Works with 20 L pails.

• Melt on demand technology preserves adhesive properties.

FlexDrum Unloaders

• Works with 200 L drums.

• Combines high melting and pumping capacity with melt on demand technology.

• Can work in tandem to eliminate drum change downtime.
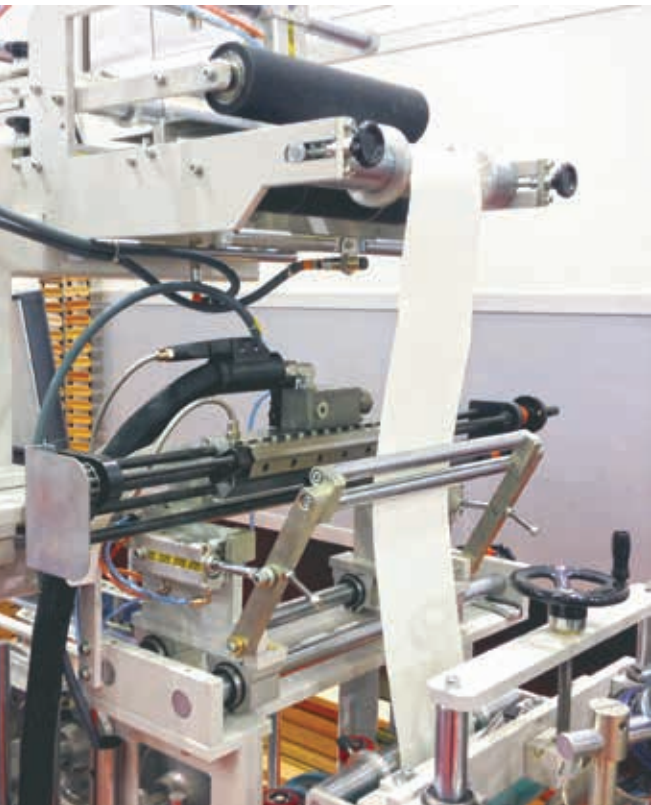
PROFILE WRAPPING SOLUTIONS

Designed for applications up to 1100mm that require frequent width changes with maximum accuracy

FlexWrapp Series

Adjustable Width Applicators

Designed for continuous applications up to 1100mm that require frequent width changes with maximum accuracy, to reduce adhesive waste and minimize overall costs.

FlexWrapp applicators are compact, light and easily installed. They include an easy-to-use width adjustment device; bilateral, independent, and with just one operational side.

Grammage Control

Valco Melton's hot melt units incorporate grammage (coat-weight) control, accessible through a user-friendly PLC touchscreen.

Grammage controls facilitate operator's programming tasks by eliminating the need to calculate a machine's working parameters to apply a given coat weight. The intuitive interface guides the operator to fill-in the application width, the adhesive density, and the gsm (g/m2) to be applied. The melting system will automatically adjust the pumping rate to the necessary working conditions, while also taking the variable line speed of the parent machine into account.

Valco Melton's grammage control virtually eliminates waste product and downtime associated with an incorrect adjustment of the coat weight. This results in important adhesive savings and defect-free end products.

Pump 1	Pump Control	
Grammage Control		
Weight Set Point	10.0	gr/m2
Application Width	1000	mm
Adhesive Density	1.00	g/cc
Fine Tuning	100.00	%
Pump Min. Speed	0.0	rpm

PANEL WRAPPING SOLUTIONS

Endurance Series
Adjustable Coating Head

Providing an optimal lamination on applications starting from 1100mm that require frequent and precise width changes.

Available in 3 standard options to properly suit a variety of application needs:

1. Manual: An integrated, manual width adjustment system, which can be configured to run bilateral, independent, or with one operational side.

2. Motorized: An integrated stepper motor for high-precision width adjustment, and faster work changes with minimal operator intervention through the PLC.

3. Automatic: An integrated stepper motor controlled by sensors on both sides to automatically adjust the width.

Additional features include an integrated bracket for the adjustment of the applicators angle between the applicator head and the substrate, and a back-up guide to ensure uniform contact of the wrap against the head. It moves out when the machine stops to prevent burns and damage on the substrate.

HIGH-GLOSS APPLICATIONS

ProPUR Coating Stations

Valco Melton's range of rotating bar guns are easily configurable and provide a streak-free coating on high-gloss surface finishes, with guaranteeing an accurate coat-weight control.

Featuring rotating bar technology, ProPUR stations offer a self-cleaning coating solution that ensures a high quality, streak-free application.

Prevent the "orange skin effect" and achieve flawless coatings with an against-roll application.

EDGEBANDING SOLUTIONS
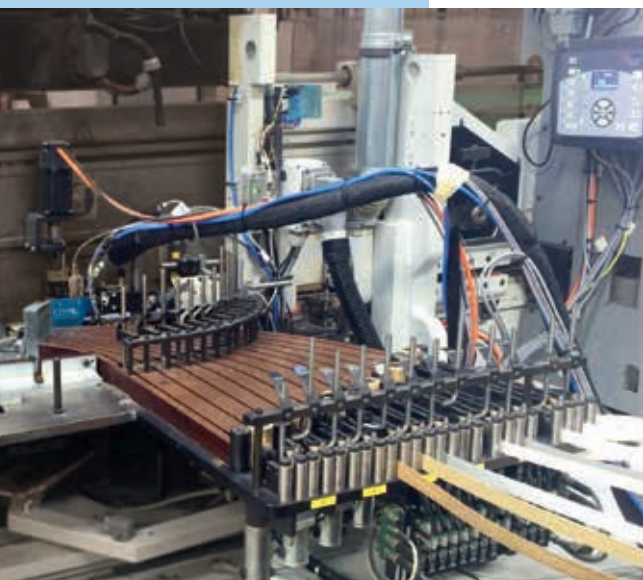
Precision Application Systems

With reduced glue usage and controllable, repeatable processes at all machine speeds, the Valco Melton Edgebanging System saves both time and money with improved production quality and a reliable solution.

ClearCut Series Applicators allow for intermittent coatings and configurable application widths up to 60mm. To ensure the versatility in the application process, the ClearCut Series includes a manual precision width adjustment or motorized with stepper motor.

Take away the need for operation adjustment and provide automatic shut-off for additional savings with the industry proven, reliable MCP-6 control.

An integrated bracket ensures that the applicator is always in contact with the edge of the board, which guarantees an homogeneous adhesive application.

Additionally, it improves resistance by absorbing the impact made by wood panels, even on high speed production lines.

ClearCut Series Manual Applicators

ClearCut Series Motorized Applicators

MCP-6 Pattern Controls

Achieve a precise application for a flawless end product and reduce adhesive waste using Valco Melton's MCP-6 pattern controls.

Maintain consistent adhesive volume during changes in machine speed with automatic motor-speed tracking. This MCP-6 feature automatically shuts the valve off when a board stops in the application area and opens as soon as the machine begins again, eliminating wasted boards.
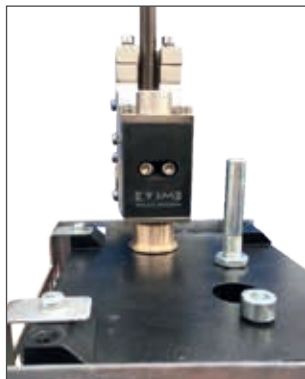
Pot Filling Systems

Valco Melton's pot filling solutions allow easy upgrades from regular edgebanding with EVA roller processes to PUR. Featuring a custom air-tight lid, designed to adapt to all major edgebander manufacturers, our solution helps preserve reactive adhesive properties.

Our MS high flow gun allows for full control of the adhesive dispensed to the roller, while the level sensor integrated in the lid secures a constant adhesive presence for continuous non-stop operations.

Combined with our specific PUR melting units, the complete system protects PUR properties to perfection, achieving an improved and optimized bonding.

FLAT LAMINATION SOLUTIONS

For roller coater laminating processes, Valco Melton's High-Flow MS Gun Series applicators integrate perfectly into already existing lines without any additional need for adjustment. Supply problem-free, constant adhesive flow at the large volumes that roller lamination systems require.

MS Gun Series
High-Flow Applicators

Specialty Applications

We can help you with any type of adhesive dispensing requirement.

Our range of melters, applicators and accessories are sure to adapt to the needs of your manufacturing process, no matter how specific it may be.

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