



**VALCO MELTON**

Adhesive Dispensing & Quality Assurance Systems

**Woodworking, PVC & Aluminum Solutions**

English Version

## Maximize Your Capabilities with Valco Melton Adhesive Melters.

Valco Melton supports its customers in the woodworking sector with a broad range of experience. After years of focused research and development, Valco Melton has developed a full range of adhesive melters to cover the adhesive dispensing requirements of the industry-- from smaller tanks for lower melting rates to the largest drum melters and a variety of units to work in tandem.

### EVA & PO Adhesive Melters

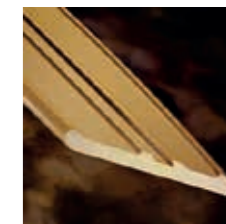


#### FlexMelt™ & D Series:

Functional units that optimize adhesive performance. A compact design facilitates easy installation and access to minimize maintenance times. The FlexMelt Series is available in a 4 pump option to allow for simultaneous use of independent applicator heads. D Series units offer key-to-line capabilities, integrated glue pattern controls, variable pressure relief, and high output pumps in option.

#### Smart Melt & D Series:

Specially designed for the most demanding, continuous applications in the woodworking, PVC and aluminum industries. The Smart Melt and D Series include various units with melting rates to cover any application need. The Smart Melt Series features an intuitive LCD touchscreen to facilitate setup and control operations.



### Specially designed to work with PUR adhesive

PUR adhesive is a cross-linking, reactive adhesive. Before it is applied to any substrate, it is critical that the PUR does not come into contact with any moisture (i.e. humidity in the air). Valco Melton's PUR melters ensure an air-tight closure to prevent adhesive degradation, resulting in great adhesive savings and consistent operation.

*Eliminate refill downtime with the capability of working in tandem with Valco Melton's drum melters.*



#### Drum Melters:

When a high melting capacity with MOD technology is required, you can rely on Valco Melton's range of drum melters. All series feature durable, long lasting Teflon® coated o'rings and a variable speed gear pump. Operator safety is guaranteed with new safety elements including an exhaust hood, safety jacket and pneumatic pressure regulator to relieve system pressure.

The **BPail** works with 20kg PUR pails.

For 200kg PUR pails, the **EDrum** is Valco Melton's newest and most advanced solution.

#### IsoMelt



**IsoMelt Mini**

#### PUR Melters:

Conventional Valco Melton PUR melters feature a hermetic lid, air dryer, and PLC atmosphere control. The **IsoMelt** Series achieves a high production output. Available options include 1 or 2 gear pumps. The IsoMelt features up to 2 hydraulic connections per pump, 6 electrical exits and 12 independent control channels, as well as an integrated grammage control. With a tiltable tank and removable melting grid, faster and safer maintenance and cleaning operations are possible.

The **IsoMelt Mini** Series can work with up to 4 liters of adhesive and accommodate 2kg PUR standard slugs.

#### IsoMelt Plus Mini



**IsoMelt Plus**

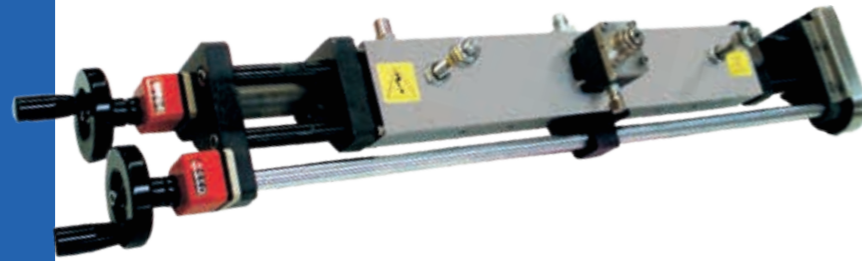
#### Slug Melters, Melt on Demand:

Slug melters make PUR handling easy. The PUR slug goes directly into the melting tank without any need to unwrap it, which makes work faster and safer. This series includes an easy-opening system to minimize cleaning and maintenance times. Its reservoir tank completely eliminates production stops during slug changes.

For 20kg standard PUR slugs, the **IsoMelt Plus** is the ideal solution, melting up to 37.5 kg/h. Select the **IsoMelt Plus Mini** to work with small 2kg PUR slugs to reach a melt rate of up to 6kg/h.

## Profile Wrapping Solutions

Valco Melton's coating systems for Profile Wrapping are engineered to cover the needs of a demanding woodworking, PVC and aluminum environment. Applicators achieve superior quality end products with considerable adhesive savings and minimal downtime for overall better production.



### FlexWrapp™ Series

Valco Melton's FlexWrapp Coating Gun Series is 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.

For coating needs on wider surfaces, Valco Melton offers a range of hot melt adhesive applicators for Panel Lamination.

Valco Melton's Endurance Series has been designed to achieve optimal lamination results starting from 1100mm.

### Endurance Series adjustable coating head



Valco Melton's FlexWrapp and Endurance Series are 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.

These series of applicators also feature an integrated bracket for the adjustment of the applicators angle between the applicator head and the substrate.



Aside from this, a back-up guide ensures uniform contact of the wrap against its head. It moves out when the machine stops to prevent burns and damage on the substrate.



Deliver fast width changes with maximum precision.

Reduce Adhesive Usage...

...Achieve the Highest Quality



## High-Gloss Applications with Valco Melton's ProPUR Coating Stations

One of the latest trends in furniture includes a high-gloss surface finish. Valco Melton's range of Rotating Bar Guns are easily configurable and provide streak-free coating with excellent 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.

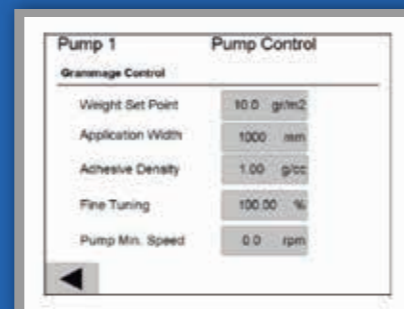


## Valco Melton's Grammage Control

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. Eliminate 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/m<sup>2</sup>) 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.

By simplifying operator's programming tasks, 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.



## Edgebanding Solutions

Valco Melton offers rugged and precise applicators to support edgebanding application needs with special features to eliminate warped and curved board issues. Take away the need for operation adjustment and provide automatic shut-off for additional savings with the industry proven, reliable MCP-6 control. With reduced glue usage and controllable, repeatable processes at all machine speeds, the Valco Melton Edgebanding System saves both time and money with improved production quality and a reliable solution.

### VM Applicators:

**ClearCut Series:** Valco Melton's ClearCut Series Coating Applicator improves obsolete, previously existing roller systems, allows for intermittent coatings and several 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.



**Motorized  
ClearCut Series**

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.

## Postforming Solutions

Valco Melton offers a complete solution for post-forming applications; from a high-flow roll application to super-precise edge gluing. In combination with the MCP-6 pattern control, Valco Melton provides an unyielding response to the most demanding user needs.



**Postforming  
Gun Series**

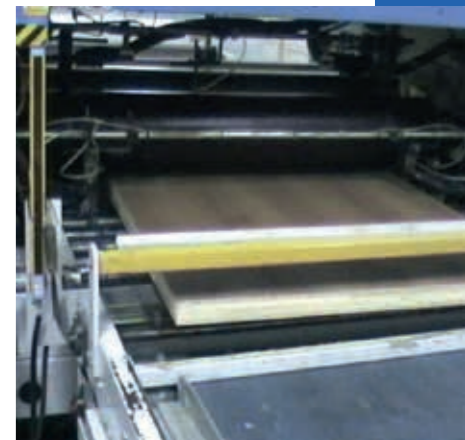
Valco Melton's Postforming Series includes guns featuring manual micro-adjustment for highly accurate applications that maintain versatility.

Each of the guns in the Postforming Series feature a specially designed, integrated bracket to facilitate installation into already existing lines and to ensure that the applicator is always in contact with a solid surface.

## Flat Lamination Solutions

For lamination using roll systems, Valco Melton offers the High-Flow MS Gun Series. This applicator integrates perfectly into already existing lines without any additional need for adjustment. Supply problem-free, constant adhesive flow with even and precise coating at the large volumes that roller lamination systems require.

**High-Flow  
MS Gun Series**



### VM Pattern Controls:

Edgebanding and Postforming Applications require a highly accurate adhesive pattern. Achieve a precise application for a flawless end product and reduce adhesive waste from Valco Melton's selection of pattern controls.

Maintain consistent adhesive volume during changes in machine speed with automatic motor-speed tracking. Options available are PCM6 Internal and MCP-6 External. 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.



**MCP-6**

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