

LP Series Coating Lines for  
**ADHESIVE COATING & LAMINATING**



Adhesive Dispensing & Quality Assurance Systems

# COATING & LAMINATING LINES

## AN OVERVIEW OF OUR LATEST PROJECTS

LP Series Coating Lines are designed to coat and laminate multiple types of materials, in order to create laminated materials delivered in roll format, for a variety of industries and manufacturing processes.

These are of some of the latest coating line configurations we have delivered to the industry, including their individual application specifications, adhesives, substrates, and any accessory hot melt dispensing equipment.



### LP350 Label Manufacturing

**Materials:**

**Adhesive:** PSA (permanent, removable or ultra-removable)

**Face paper:**

Semi- or high-gloss, white, coated paper, 80gsm

Metalized printing paper, 83 gsm

Thermal paper, 70 gsm

**Liner:** Yellow or white siliconized glassine, 60gsm

**Our Latest Project  
Application Specifications**

Line speed: 150 m/min

Grammage: 15-90 gsm

Application: Width 350mm

Pattern: Continuous, Stripe, Intermittent

*Our complete hot melt dispensing solution includes:*

Melter: SmartMelt

Akura PF hot melt applicators with interchangeable nozzles for continuous, intermittent or rotating bar applications

### LP600 Tape Manufacturing

**Materials:**

**Adhesive:** UV Curable Acrylic PSA

**Materials for laminated products:**

**Face material:**

EPDM Rubber 3-6 mm

PE Foam 3-6 mm

Aluminium

**Liner:**

Glassine Paper 60-80gsm

**Materials for self-wound products:**

PVC, 30  $\mu$

Reinforced aluminium tape (with mesh), 30-50 micron



**Our Latest Project  
Application Specifications**

Line speed 100 m/min

Grammage 40-250 gsm

Application width 600mm

Pattern: Full Coating

*Our complete hot melt dispensing solution includes:*

SmartDrum Series 200L high capacity drum unloader

SmartMelt Series gear pump unit used as buffer tank

Akura PF hot melt applicators with interchangeable nozzles for continuous, intermittent or rotating bar applications

## LP1000

### Medical Tape & Plaster Manufacturing

**Materials:**

Adhesive: PSA

**Materials for laminated products:**

**Face material:**

- Polyester Nonwoven, 45gsm
- Polyethylene Foam, 50gsm
- Polyurethane Latex Film, 70gsm
- Polyethylene Film, 65gsm

**Liner:**

Glassine Paper 60-80gsm

**Materials for self-wound products:**

- Cotton, 100gsm
- Acetate Rayon, 70gsm
- Viscose Nonwoven Rayon, 35gsm

**Our complete hot melt dispensing solution includes:**

SmartDrum Series 200L high capacity drum unloader  
 SmartMelt Series gear pump unit used as buffer tank  
 Akura PFL hot melt applicators with interchangeable nozzles for continuous,



**Our Latest Project Application Specifications**

Line speed: 100 m/min  
 Grammage: 35-85 gsm  
 Application Width: 1000mm  
 Pattern: Full Coating

## LP1400

### Sandpaper Manufacturing

**Materials:**

Adhesive: PSA, PUR

**Coated Material:** hook & loop, release paper, polyethylene, foam, nonwoven

**Laminating Material:** paper backed abrasives, fabric backed abrasives, polyester film abrasives

**Our complete hot melt dispensing solution includes:**

SmartDrum Series 200L high capacity drum unloader  
 SmartMelt Series gear pump unit used as buffer tank  
 4 Double EB Series Remote Pumping Stations  
 Akura PFL hot melt applicators with 8 independent adhesive inputs for optimal adhesive distribution



**Our Latest Project Application Specifications**

Line speed: 100 m/min  
 Grammage: 18-95 gsm  
 Application Width: 1400mm  
 Pattern: Full Coating



## LP1600

### Clear-to-Clear Label Manufacturing

**Materials:**

Adhesive: PSA

**Face material:**

- Gloss clear, top coated polypropylene, 50-90  $\mu$
- Gloss clear, top coated polyester, 50-75  $\mu$
- Gloss clear, top coated polyethylene, 85-150  $\mu$

**Liner:**

- Single and Double Side Siliconised Glassine Paper 60gsm
- Siliconised polyester 30 $\mu$

**Our complete hot melt dispensing solution includes:**

SmartDrum Series 200L high capacity drum unloader  
 SmartMelt Series gear pump unit used as buffer tank  
 ConvertCoat rotating bar head hot melt applicator with single adhesive gallery

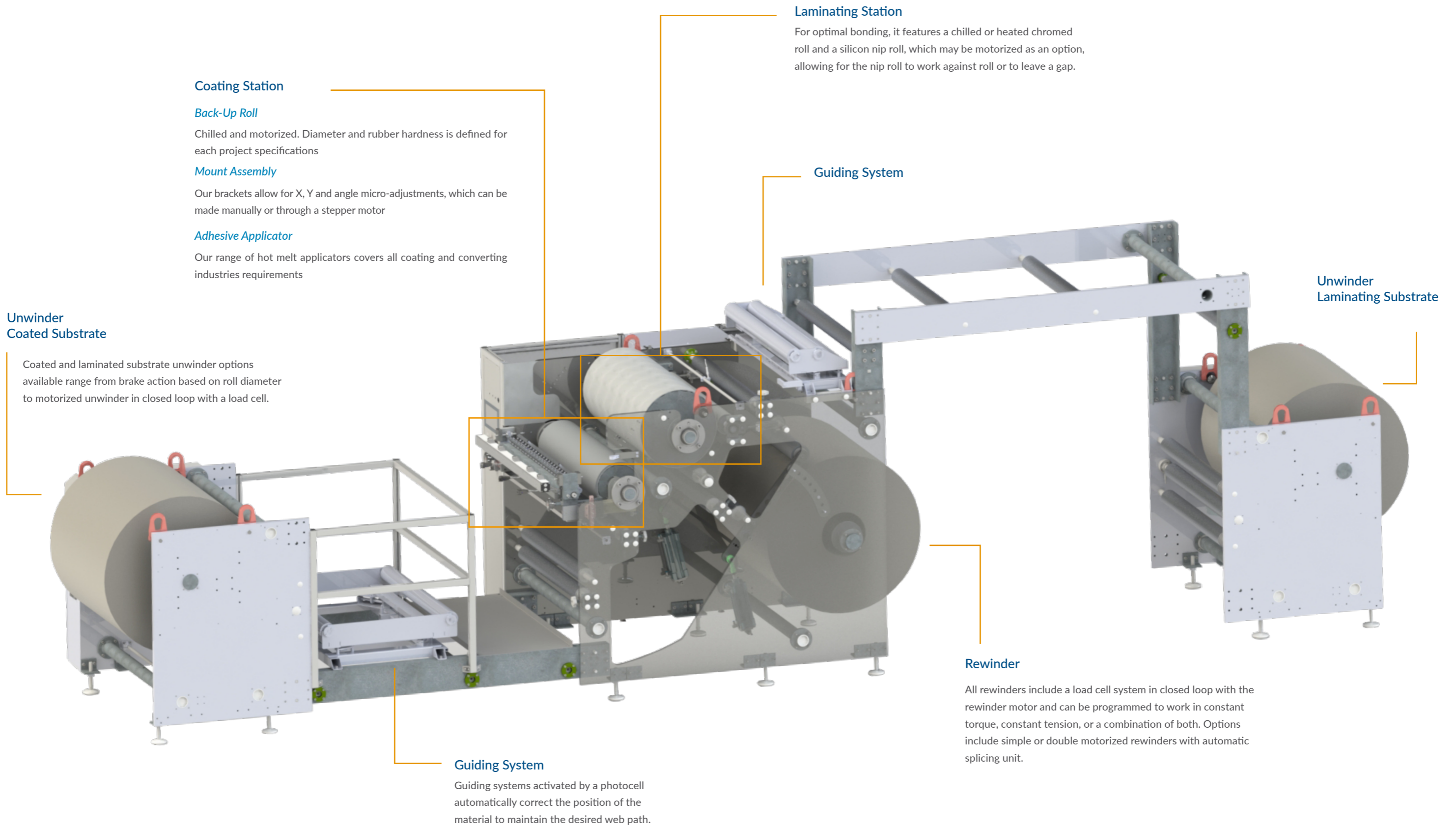
**Our Latest Project Application Specifications**

Line speed 150 m/min  
 Grammage 15-25 gsm  
 Application width 1600mm  
 Pattern: Full Coating



# LP SERIES

## HOT MELT ADHESIVE COATING LINES



### Unwinder Coated Substrate

Coated and laminated substrate unwinder options available range from brake action based on roll diameter to motorized unwinder in closed loop with a load cell.

### Coating Station

#### Back-Up Roll

Chilled and motorized. Diameter and rubber hardness is defined for each project specifications

#### Mount Assembly

Our brackets allow for X, Y and angle micro-adjustments, which can be made manually or through a stepper motor

#### Adhesive Applicator

Our range of hot melt applicators covers all coating and converting industries requirements

### Laminating Station

For optimal bonding, it features a chilled or heated chromed roll and a silicon nip roll, which may be motorized as an option, allowing for the nip roll to work against roll or to leave a gap.

### Guiding System

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Guiding systems activated by a photocell automatically correct the position of the material to maintain the desired web path.

### Rewinder

All rewinders include a load cell system in closed loop with the rewinder motor and can be programmed to work in constant torque, constant tension, or a combination of both. Options include simple or double motorized rewinders with automatic splicing unit.

### Unwinder Laminating Substrate

## CUSTOMIZED TO YOUR SPECIFIC PRODUCTION REQUIREMENTS

Every line is designed and configured for each customer's specific production requirements. Therefore, a wide variety of customization options is available, from accessories like UV lamps or corona treaters to automatization and connectivity elements.

### GRAMMAGE CONTROL

Infrared grammage measurement systems are an optional feature used to automatically check the application grammage.

When working with ConvertCoat and Endurance applicators, they are used to facilitate the set up of the adhesive distribution.

When Akura Series feature metering systems, the grammage control connects in closed loop with the different dosing areas. Additionally, it generates a final report containing the data of all the scans.

### CONNECTIVITY & TRACEABILITY

#### Connectivity

We combine telephone support with the use of connectivity for authorized remote access to the machine for maintenance purposes. To facilitate diagnosis and remote troubleshooting, our coating lines incorporate various webcams in the coating and rewinding stations.

#### Traceability & Parameter Setting

Incorporating barcode readers with Valco Melton specific software allows to scan the production order for an automatic recipe loading and parameter setting. Additionally, consumables such as adhesives or substrates, may be scanned before production to prevent mix-ups. Printing a final product label ensures a complete production traceability.

#### SmartControl

Valco Melton's SmartControl allows to visualize and program recipes, update parameters and set alarms for all the hot melt systems in a centralized manner, directly from the main machine PLC. Additionally, it allows to check and generate reports on adhesive consumption by melter, by adhesive reference, and by product/recipe. SmartControl helps simplify and automate maintenance, by programming preventive maintenance tasks and keeping record of each operator's maintenance actions.

### SAFETY ELEMENTS

All our coating lines comply with CE-mark. Our range of safety elements includes options such as safety laser scanner with configurable security levels, safety light curtain, or emergency stops.



## PROVIDING A COMPLETE MELTING & DISPENSING SOLUTION

As worldwide leading suppliers of adhesive dispensing equipment, Valco Melton offers a comprehensive solution that not only includes a custom designed coating line, but also adhesive melting or pre-melting units, applicators and accessories for any adhesive related need.



## ACCESSORIES

Our coating lines are prepared to integrate, at any time, corona treatment and UV lamps.

For those manufacturing processes that require the use of UV curable, acrylic-based PSA, our coating lines feature **UV lamps** over the laminating roll. Adhesive reacts to the UVC, increasing its properties (cohesion, shear strength and thermal stability). Success depends on correct UVC dose. The number of UV lamps and the diameter of the laminating roll is defined for each project.

When working with PP, PE, PET, PA, PP met, PE met, or PET met, it is necessary to increase the surface tension of the substrate to a range between 42 to 54 dynes/cm, in order to have a good adhesion of the coated material. In this case, we recommend to install a **corona treater**, which will be defined depending on each project specifications.



## UPGRADE OPTIONS

Valco Melton offers a wide range of accessories and upgrade options to adapt to each project's individual specifications, including:

**Additional chill rolls** for processes that require extra cooling of the adhesive before rewinding. These rolls are chromed, motorized, and their diameter is defined for each project.

**Slitters.** Whether they are needed to trim the edges, crack back, or to cut the roll into multiple end rolls, our solution includes pneumatic slitters with manual positioning and a hardened cutting roll with position adjustment for a longer roll life.

To facilitate the splicing process, our coating lines may integrate a complete **splicing unit** with an end of substrate detector for automatic line stop and material fastening system.

For easier roll loading and unloading, our unwinders and/or rewinders may incorporate a **hydraulic arm**, which automatically brings the roll to working position.



## SELECT FROM A COMPREHENSIVE RANGE OF ADHESIVE APPLICATORS

A selection of coating applicators is available to cover all industry requirements.

**Endurance** Series features a motorized width adjustment.

**ConvertCoat** Series is the optimal solution for clear-to-clear label manufacturing.

**Akura** Series guarantees an optimal adhesive distribution across the width, which is obtained automatically by incorporating multiple adhesive inputs with controlled dosing (metering head). Additionally, Akura Series brings higher flexibility thanks to interchangeable nozzles. Options include rotating bar, continuous and intermittent applications.



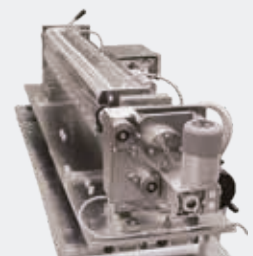
Akura PF-L



Akura M



Endurance



ConvertCoat



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or snap a picture of this QR Code

