



LP SERIES COATING LINES FOR

ADHESIVE COATING & LAMINATING



Adhesive Dispensing & Quality Assurance Systems

LP COATING LINES

CONFIGURED TO MEET YOUR PROCESS REQUIREMENTS

UNWINDER & REWINDER OPTIONS

SINGLE UNWINDER

- Web tension measured by two load cells.
- Automatic web tension control selects motor action.
- Automatic web guiding system ensures precise web alignment.
- Pneumatic expansion shafts 3" (optional 6").



DOUBLE UNWINDER MANUAL SPLICE

- Two pneumatic expandable shafts with pneumatic brake.
- Web tension measured by two load cells.
- Manual splice table.
- Substrate accumulator.
- Pull & Brake unit: Drive roller of the pull & brake unit maintains programmed tension during the unwinding process, or functions as a brake during manual splicing.



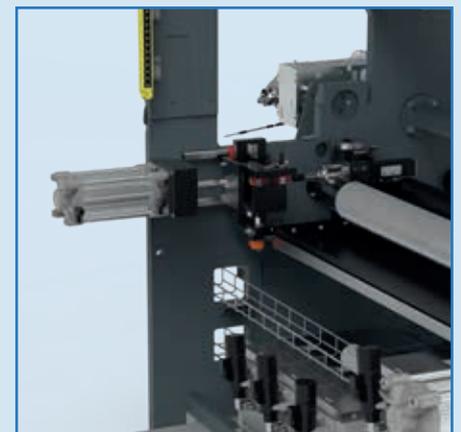
AUTOMATIC UNWIND BUTT/OVERLAP SPLICER

- Two pneumatic cantilevered expandable shafts with Pneumatic brake tension control.
- Butt/Overlap splice unit without tail.
- Festoon unit (dual function) a) Working mode as a dancer b) Working mode as paper accumulator.
- Internal Pull & Brake unit: the drive roller of this Pull & Brake rotates according to the main line speed reference and controlled by PID dancer position by accelerating and decelerating per changes in the line speed or the position of dancer.



DIE MOUNT

- The coating head is mounted on a micro-adjustable bracket with a pneumatically operated assembly that enables X,Y, and angle adjustment of the coating head in relation to the web.
- Automatic head retraction protects the web from distortion and allows switching between working and maintenance position.
- Positioning against the back-up roll is automatically regulated by stepper motors.
- Pressure of the coating die against the back-up roll is controlled through a proportional valve.
- Bracket allows both against-roll and off-roll positions by changing web threading.



SINGLE REWINDER

- Rewinder motor operates in tension control mode with adjustable setpoint, compensating roll diameter increase to avoid telescoping.
- Nip roller position managed by servo-driven adjustment and pneumatic pressure force control.
- Nip roller can operate either in gap mode (non-contact with the final product roll) or in contact mode with adjustable pressure.
- Pneumatic expansion shafts: 3" (optional 6").



TURRET UNWINDER / REWINDER WITH AUTOMATIC SPLICE

- Axial winder with two fixed positions, suitable for operation in either contact or non-contact mode.
- Independent motorization for each winding position.
- Winder motion with permanent magnet brake.
- Pressing counter roller positioning managed by combined servo-driven adjustment and pneumatic pressure force control.
- Pneumatically driven cutting blade, designed to be mounted in either unwinding direction.
- Pneumatic expansion shafts: 3" (optional 6").
- Independent control cabinet with CE conformity; optional UL-certified control.
- Touch screen panel control.



TURRET UNWINDER



TURRET REWINDER

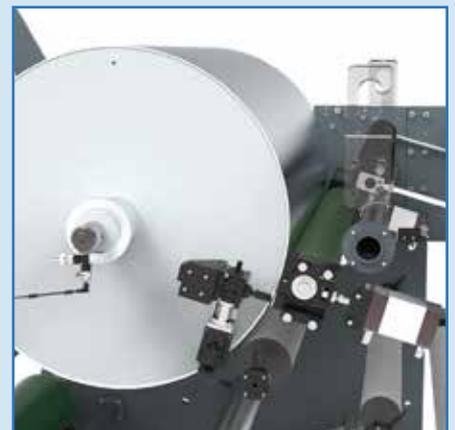
LAMINATING STATION

STANDARD

- Chilled hard chrome plated, calendar roller driven by AC geared motor.
- Silicone coated laminating nip roll mounted on linear guide.
- Pneumatic cylinder engages or disengages the nip to facilitate the lamination process.
- Air pressure adjustable through a proportional valve for smooth operation.

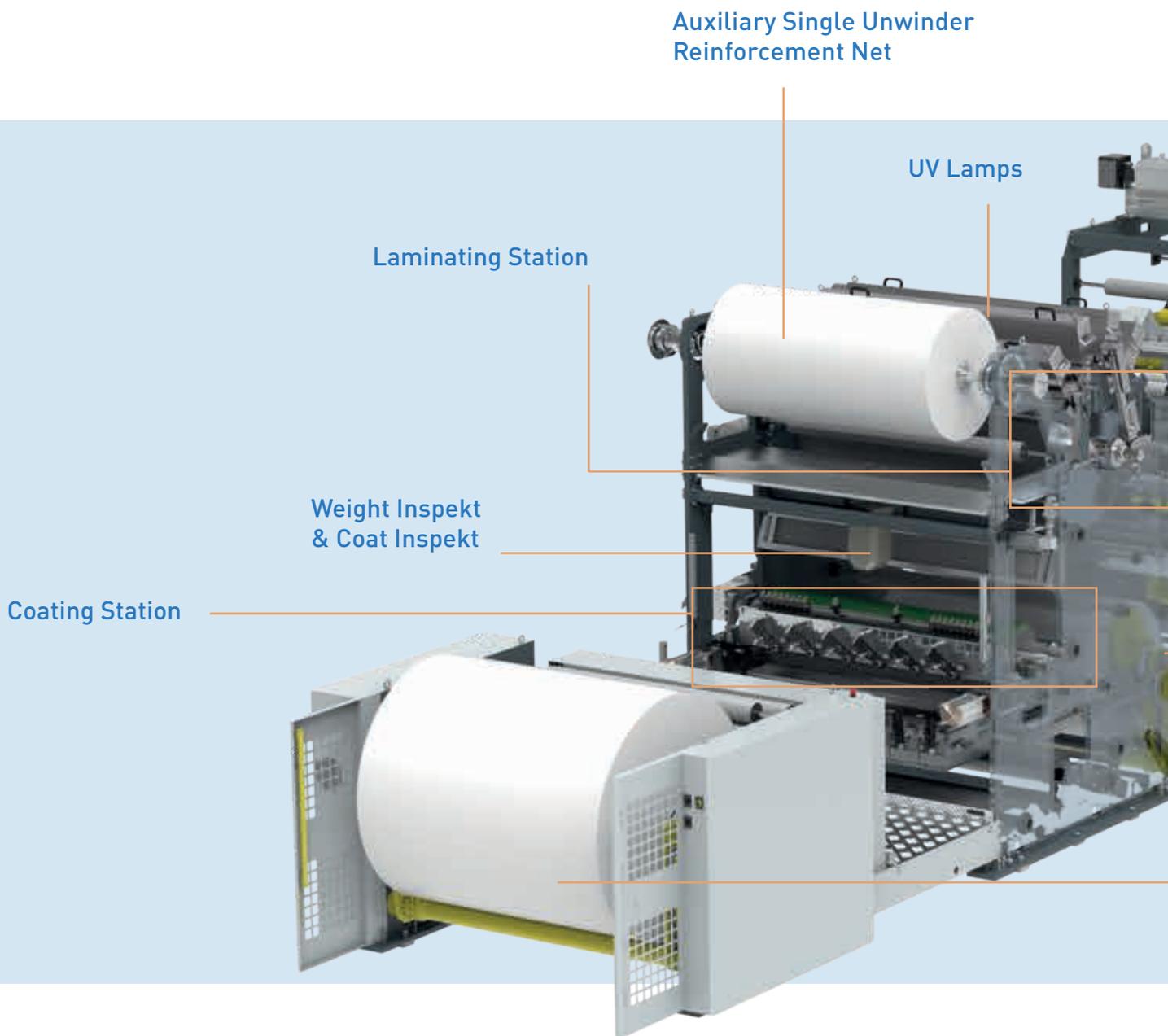
OPTIONAL

- Laminating station can operate in contact position or with a programmed gap.
- Gap adjustment automatically regulated by stepper motors.
- Path rollers prior to lamination with adjustable positioning to regulate substrate entry angle.



LP COATING LINES

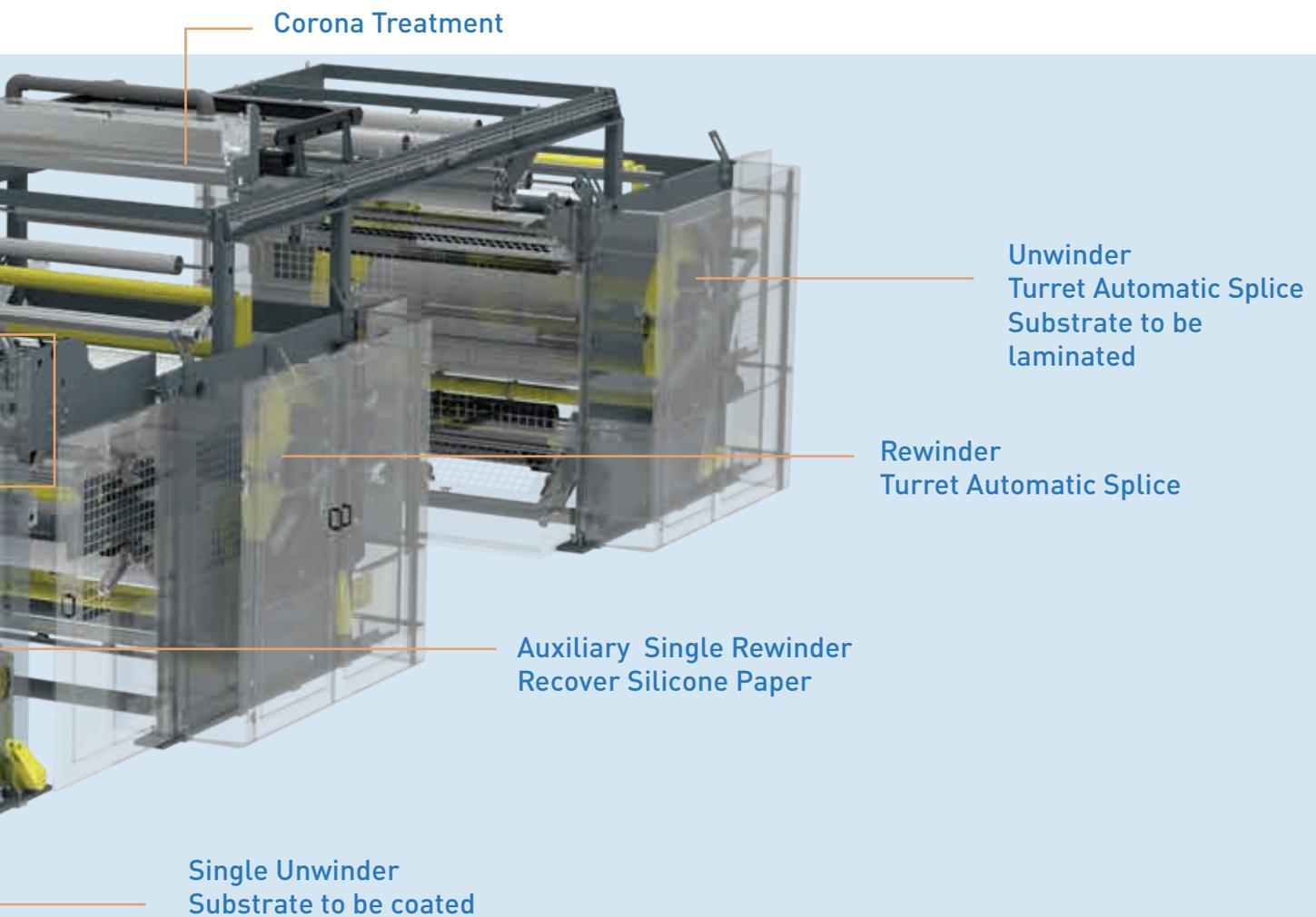
LAYOUT & SPECIFICATIONS



LINE ACCESSORIES AND UPGRADES

Every line is designed and configured for each customer's specific production requirements. Therefore, a wide variety of customization options is available:

- Weight Inspekt: grammage control system for silicone and adhesive coatings.
- Coat Inspekt: Vision system to detect defects on substrates and coatings.
- UV Lamps.
- Corona treatment.
- Edge Trimming Unit.
- Slitting Unit.
- Web Cleaner
- Antistatic Solutions
- Spreader Rollers
- Additional unwinder/rewinder



LP Coating Lines Specifications

Coating Line	350	600	1000	1600
Web width (mm)	150-350	250-600	450-1000	750-1600
Line speed (m/min)	Standard: 200 m/min (650 ft/min) Optional: 300 m/min (984 ft/min)			
Web tensión (N/m)	Standard: up to 600 N/m Optional: 1200 N/m			
Roll Inner Core	3" or 6"			
Roll External Diameter	600 mm		1200 mm	
Roll Weight	100 Kg	150 Kg	1000 Kg	1500 Kg

LP COATING LINES

SUPPORTING MULTIPLE CONVERTING PROCESSES

LP 1600

Tape Industry

Materials

- **Adhesive:** UV Curable Acrylic PSA; HotMelt PSA
- **Face material:**
 - PE Foams
 - PU Foams
 - Aluminium Foils
- **Liner:**
 - PE 120 µm
 - Glassine Paper 60-80 gsm



What do our solutions include?

- SmartDrum Series 200L high capacity drum unloaders
- 1x M170 Series Unit used as buffer tank for UV Curable Acrylic PSA
- 1x M170 Series Unit used as buffer tank for HotMelt PSA
- Akura PFL Hot Melt Applicator with 4 independent inputs
- Weight-Inspekt Quality Assurance in close-loop with feeding gear pumps

Project Specifications

- **Line speed:** 60 m/min
- **Grammage:** 20-80 gsm
- **Application width:** 1600mm
- **Pattern:** continuous full coating, stripes

LP 1600

Graphics Industry

Materials

- **Adhesive:** UV Curable Acrylic PSA
- **Face material:**
 - PVC 80-100 µm
 - Vynil
 - PE Films
- **Liner:**
 - PE 120 µm
 - Glassine Paper 60-80 gsm



What do our solutions include?

- SmartDrum Series 200L high capacity drum unloaders.
- M350 Series unit used as buffer tank
- 6 EB Series Remote Pumping Stations
- Akura PFL Hot Melt Applicator with 6 independent inputs.
- Weight-Inspekt Quality Assurance in close-loop with feeding gear pumps.
- Coat-Inspekt Quality Assurance to detect coating defects.

Project Specifications

- **Line speed:** 150m/min
- **Grammage:** 20-80 gsm
- **Application width:** 1600mm
- **Pattern:** continuous full coating, stripes

LP 1600 Label Industry

Materials

- Adhesive: HotMelt PSA
- Face material:
 - Coated Paper 60-80 gsm
 - Thermal Paper
 - Metallized Paper
- Liner: Glassine Paper 60-80 gsm

What do our solutions include?

- SmartDrum Series 200L high capacity drum unloaders.
- M350 Series unit used as buffer tank
- 6 EB Series Remote Pumping Stations
- Akura PFL Hot Melt Applicator with 6 independent inputs.
- Weight-Inspekt Quality Assurance in close-loop with feeding gear pumps.
- Coat-Inspekt Quality Assurance to detect coating defects.



Project Specifications

- Line speed: 300m/min
- Grammage: 15-30 gsm
- Application width: 1600mm
- Pattern: continuous full coating



LP 1200 Medical Industry

Materials

- Adhesive: UV Curable Acrylic PSA
- Face material:
 - PET NonWovens
 - PE Foams
 - PU Latex Films
 - PE Films
- Liner: Glassine Paper 60-80 gsm

Project Specifications

- Line speed: 50 m/min
- Grammage: 35 gsm
- Application width: 1200mm
- Pattern: continuous full coating, stripes

What do our solutions include?

- SmartDrum Series 200L high capacity drum unloader
- SmartMelt120 Series Unit used as buffer tank
- Akura PFL Hot Melt Applicator with 4 independent inputs
- Weight-Inspekt Quality Assurance in close-loop with feeding gear pumps

LP 350 Lab Coater

Materials

- Adhesive: UV Curable Acrylic PSA; HotMelt PSA
- Face material: Wide range for trials purpose
- Liner: Wide range for trials purpose

Project Specifications

- Line speed: 150 m/min
- Grammage: 10-200 gsm
- Application width: 350mm
- Pattern: continuous full coating, stripes, intermittent.



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