Billco’s Lami-Pro is a customizable laminating assembly line built for producing high quality laminated glass. The line is designed to clean glass, assemble laminate, heat, and pre-press the unit prior to autoclaving.

**Processing Capabilities**
- Conveyor Width(s): 60", 84", 96", 108"
- Glass Thickness Range: 2.2–19mm
- Processing Speed: 5–26 FPM
- Max Laminate Thickness: 3"

**Industries**
- Architectural

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**More Key Advantages and Component Details >**
LAMI-PRO

Key Advantages

Modular Design: Allows for custom line configurations and drop in replacement options

Precision Recipe Line Control: Simplifies operation and maintains complete control of all aspects of the line

IR Heating Technology and Convection: Precise temperature control for a consistent, high quality laminate

Minimal Energy Consumption: Lowers production costs

Turnkey Solutions Available: Billco can furnish all supporting equipment such as PVB cutter, clean room and autoclave

LOAD/OFFLOAD SYSTEMS

Several conveyor designs are available to better assist each customer’s unique needs. Options include, but are not limited to, caster tables, float tables, conveyors, and unstackers. Specialized equipment is available for loading or offloading large lites.

GLASS WASHERS

High quality laminated glass begins with glass washing. Billco’s industrial duty glass washers are the cornerstone of the Lami-Pro, offering reliable cleaning with flexible processing options.

Highlights

Continuous or Batch Load Processing

Pre-Spray Section: Helps to minimize downstream contamination

Low E Compatible

Four Corner Lift System: Provides easy access for inspection or maintenance

ASSEMBLY & TRIM CONVEYORS DETAILS
BILLCO HAS BEEN A LEADING SUPPLIER OF LAMINATING EQUIPMENT SINCE THE 1970’S, WITH ASSEMBLY LINES STILL IN OPERATION TODAY FROM THEIR ORIGINAL INSTALLATION DATE OVER 40 YEARS AGO.

ASSEMBLY & TRIM CONVEYORS
After glass is cleaned and free of contaminants, the glass moves into a staging and assembly area. The laminate unit is assembled and trimmed in preparation for heating and pressing.

Highlights
Area Designed to Handle Large Stock Size Glass, or Smaller Custom Sizes
Center-Driven Conveyors: Minimize conveyor width, making it easier for operators to efficiently handle glass
Automatic Tensioning Drives: Provide smooth, quiet operation and reduce component wear
Independently Operated Conveyors: Offer greater control over each stage of the process
Highly Durable Components: Resist damage from trimming knives for long lasting wear
Drop Down Decks: For easy operator pass through to opposite side of the line
Slide In/Out Roller Deck Sections: Assist operators in safe handling of glass and laminate and provide easier access to the center of the conveyor

LAMINATING OVENS
The Pre-Heat and Main Ovens are designed with many innovative heating and energy saving technologies to provide the highest quality laminate.

Highlights
Precision Heating: Emitters direct optimum amounts of energy to directly heat the interlayer, reducing overall operating costs
Automatic Louver System: Regulates oven temperatures for precise temperature control and allows for quick cool down and protection of components; it also minimizes premature edge sealing
Energy Saving Mode: Maintains the minimum amount of heat that will allow for a quick startup
Stainless Steel Rollers: Long lasting rollers are easy to clean and maintain
LED Status Lights: Provide real time operational status on emitters and reflectors
Slide Out Rail Supports: Simplify access to Emitters for ease of maintenance

More Lami-Pro Components >
LAMI-PRO

Lami-Pro Components

NIP ROLL PRESS
Directly following the heating process, the laminate unit is conveyed through a set of Nip Roll Presses to uniformly press the unit.

Highlights
- Precision Compression Tolerances: Ensure a constant laminate thickness
- Side-to-Side Roller Position Monitoring: Guarantees parallel pressing
- Real-Time Positioning: Delivered via graphical display to assist the operator
- Multilayer Laminate Processing up to 3” thick.

CONTROL SYSTEM
Every line function from start to finish can be controlled from one intelligent control system. Real-time information, regarding glass positions, oven temperatures, nip roll pressures and more, is available to the operator at the touch screen HMI. Recipe management can also be accessed and maintained at the HMI. Once a recipe is selected, all major functions automatically adjust. User-friendly help screens ensure ease of operation and troubleshooting.

ON CALL
24/7/365

Billco Services
Billco provides the backbone for flat glass production lines—large and small—with high quality American-made equipment and 24-7-365 never-fail relationships. Our stability and expertise is proven with high customer satisfaction ratings, uptime statistics, impressive ROI, and a multi-million dollar inventory of ready-to-ship replacement parts. Our Solution Specialists, 24-7-365 Technical Support, and Replacement Parts Team are fully dedicated to keeping your line moving. Call or visit our website for more information.