HIGH PERFORMANCE LAMINATING SYSTEMS
with Superior Performance, Precision & Durability

Midwest Automation manufactures a wide variety of high performance laminating machines and engineered systems for liquid polyurethane, epoxies, and hot melt (PUR) adhesive applications. Midwest machines have been used extensively in the architectural door, engineered wood flooring, structural and insulated panel and composite panel industries, just to name a few. We help you laminate better, increase productivity, and improve quality.

GS 300/400-2M GLUE SPREADERS
The ultimate in roll coater technology where precision adhesive coatings are required to achieve maximum results. Ideal for applying two component adhesives and liquid urethanes.

FEATURES
• Large diameter spreading and dosing rollers
• Cast iron roller supports
• Independently driven roller groups
• Handwheel operated panel and glue thickness control
• Stainless steel collection tray

Optional equipment includes steel, chrome-plated rollers, pre-conditioning heating and cooling units, and automatic panel and glue thickness controls.

PC 250 PANEL CLEANERS
Ideal for cleaning sawdust or other contaminants from panels or cores prior to adhesive application for cleaning top and bottom surfaces simultaneously. An important first step in any laminating application.

FEATURES
• Two cylindrical brushes and dust collection hookups
• Handwheel operated panel thickness with mechanical readout
• Pneumatic actuated drive rollers
• Variable speed control

Optional equipment includes powered or electric thickness controls, anti-static kit, and powered outfeed rollers.

GS 300/400-O OPEN ROLL COATERS
Ideal for applying single and two component liquid urethane and epoxy adhesives where accurate coverage is required.

FEATURES
• Large diameter rollers
• Cast iron roller supports
• Independent drive motors for each spreading and doctor roller
• Powered outfeed rollers
• Teflon glue dams
• Stainless steel collection tray
• Safety guards and interlocks

Optional equipment includes automatic panel and adhesive thickness control, automatic level sensing, pre-conditioning heating and cooling units, and two-component mixing systems.

HGS II HOT MELT GLUE SPREADERS
Designed to apply hot melt adhesives, including polyurethane adhesives (PUR), to flat panels or surfaces using specially designed heated rollers. This system is used in conjunction with a hot melt adhesive melter and is ideal when laminating a wide range of dissimilar materials such as foam, aluminum, steel, plastic, gypsum board and wood.

FEATURES
• Large diameter, silicone-covered spreading rollers
• Large diameter, chrome-plated doctor rollers
• Cast iron roller supports
• Independent drive motors for each spreading and doctor roller
• Variable speed forward/reverse drive with digital line speed display
• Electrically heated thermal oil for heating all spreading and doctor rollers with electronic temperature control
• Powered panel thickness control
• Handwheel operated glue adjustment
• Pneumatically operated “floating” Teflon glue dams
• Stainless steel collection tray
• Stainless steel ventilation hood with plexiglas doors
• Safety guards and interlocks

Optional equipment includes automatic panel and adhesive thickness control, automatic level sensing, and teflon-coated outfeed rollers.

Spreading roller, ebonite dosing roller and spring-loaded, Teflon-end seal.
HIGH PERFORMANCE LAMINATING SYSTEMS
RP 4000/5000 Roller Presses

**RP 4000/5000 ROLLER PRESSES**
Designed for optimum compression with PUR hot melt adhesives in a continuous process. The RP 4000/5000 offers a heavy duty, fixed roller design for high pressure laminating with direct drive upper and lower rollers.

Standard 4 and 5 foot wide models are available in 3, 5 and 10 roller configurations.

**FEATURES**
- Welded structural tube frame incorporates a “ladder” style design
- Solid top and bottom rollers
- Powered panel thickness adjustment with digital display
- Electronic variable speed AC drives with digital line speed
- Large diameter rollers are rubber-coated and precision ground
- Direct drive upper and lower rollers using helical bevel gear boxes
- Free standing electrical enclosure with push button controls
- Precision jacks with rubber dust boots connected with drive shafts and chains
- Gas spring-operated doors for ease of access
- Infeed hold down roller & safety bar
- Emergency stop

**CP 400A AUTOMATIC COLD PRESS**
Fast cycling automatic cold press designed for PUR hot melt laminating applications that require continuous platen pressure.

Optional equipment includes Allen-Bradley PanelView™ HMI with color monitor, Allen-Bradley MicroLogix™ PLC controller, pneumatic pressure control system, silicone or steel rollers, additional powered rollers, powered outfeed roller, and electrical thickness control with positioning unit.
HIGH PERFORMANCE LAMINATING SYSTEM
Hot Melt PUR Laminating System

SYSTEM CONFIGURATION
- Panel Cleaner
- Power Roller Conveyor with Pre-Heat
- Hot Melt Glue Spreader
- Layup Table with Laminate Rack
- Continuous Roller Press

INFEED END

OUTFEED END

OUTFEED END

AUTOMATIC PICK & PLACE SYSTEM
Improves Productivity & Throughput

Typical Line Layout

Finished Interior Door

Outfeed End View
HOT MELT PUR LAMINATING SYSTEM

Midwest Automation machines help turn raw materials into quality decorative panels, lightweight composite panels, residential and architectural doors, and engineered wood flooring.

AUTOMATED SYSTEMS
- Increase Productivity
- Improve product quality
- Reduce labor costs
- Control production schedules

FINISHED PRODUCT

FEEDING → CLEANING → GLUING → LAYUP → PRESSING → FINISHED PRODUCT
YOUR REQUIREMENTS DRIVE OUR BUSINESS.

Midwest Automation is a family owned U.S. manufacturing company located in Minneapolis Minnesota.

For companies who care where the products they buy are made, it will come as no surprise that buying American is not as easy as it used to be. If you look closely you will discover that many of the machines represented to be “American made” are in fact imported from foreign countries.

For over 60 years, Midwest Automation has manufactured industrial machinery for the woodworking, composite panel and metalworking industries using U.S. labor, and locally available components whenever possible.

Our extensive application knowledge, coupled with creative machine designs, allows us to provide unique and reliable solutions that improve your manufacturing processes, supported by local parts and service.

If you are looking for an industrial machinery manufacturer with real application expertise, contact Midwest Automation today.

Manufacturing results since 1959.