Flat Panel Laminating Machines

WATER BASE LAMINATING
Midwest Automation, together with our strategic partner ORMA Macchine, offers the largest variety of water base laminating solutions in the world today. Whether you require a simple 2-roller glue spreader with a single cold pinch roll press for laminating high pressure laminates, or very precise roll coaters with a hydraulic press for veneering panels, Midwest has the system to meet your requirements. Midwest machines have been used extensively in the kitchen countertop, office furniture, architectural woodwork and store fixture industries, just to name a few. Bottom line? We help you laminate better, increase productivity, and improve quality.

**GS 250 GLUE SPREADER**
An economical, 2-roller glue spreader that uses spreading rollers and glue dams/metering bars for applying the adhesive. Ideal for small to medium shops where less precision is required.

**FEATURES**
- Handwheel operated panel thickness with digital readout
- Variable speed control
- Stainless steel collection tray

Optional equipment includes segmented bottom rollers, glue transfer kit, and caster kit.

**GS 300/400 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

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 300/400-2M GLUE SPREADERS**
A rugged 4-roller glue spreader designed for precision application of PVA glues, water base adhesives and two component materials.

**FEATURES**
- Large diameter spreading and dosing rollers
- Cast iron roller supports
- Independently driven roller groups
- Handwheel operated panel and glue thickness control

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

**Spreading roller, ebonite dosing roller and spring-loaded, polymeric-end seal.**

**Spreading roller and glue dam with machined metering bar and brass end seal.**

**Panel Cleaners & Glue Spreaders**

**Spreading roller, ebonite dosing roller and spring-loaded, polymeric-end seal.**

**Spreading roller and glue dam with machined metering bar and brass end seal.**
WATER BASE LAMINATING MACHINES
Pinch Roll Presses

**RP 4000/5000 CONTINUOUS 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
- Powerfed 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 and safety bar
- Emergency stop

**OPTIONAL EQUIPMENT**
- 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
- Electrical thickness control with positioning unit

**RP 400/500 PINCH ROLL PRESSES**
Heavy-duty pinch roll press designed for continuous duty applications. Available in 4, 5, and 8 foot standard widths.

**FEATURES**
- Solid top and bottom rollers
- Handwheel operated panel thickness with digital readout
- Direct-drive bottom roller
- Electronic variable speed control

Optional equipment includes segmented bottom roller, pneumatic loading system, powered upper roller, electronic thickness control, and more.

**Heated Roller Presses**

**RP 4000/5000 H HEATED ROLLER PRESSES**
Heavy-duty design for demanding laminating applications where flexibility and versatility are required in a continuous system. The modular design allows the system to be custom configured or expanded with additional rollers and/or heater sections.

**FEATURES**
- Welded structural tube frame
- Three (3) large diameter, precision-ground, silicone covered top and bottom roller sets
- Electronic variable speed control
- Individually driven upper and lower rollers with helical gear boxes
- Handwheel thickness control
- Infrared heaters with electronic temperature controls
- Operator interface/PLC-controls with color monitor
- Optional powered and/or electronic thickness control
- Optional pre-heat with electronic temperature controls
- Optional intermediate rollers for short parts
- Optional outfeed roller kits

**OPTIONAL EQUIPMENT**
- 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
- Electrical thickness control with positioning unit

**RP 4000/500 H HEATED ROLLER PRESSES**
Heavy-duty design for demanding laminating applications where flexibility and versatility are required in a continuous system. The modular design allows the system to be custom configured or expanded with additional rollers and heater sections.

**FEATURES**
- Welded structural tube frame
- Three (3) large diameter, precision-ground, silicone covered top and bottom roller sets
- Electronic variable speed control
- Individually driven upper and lower rollers with helical gear boxes
- Handwheel thickness control
- Infrared heaters with electronic temperature controls
- Operator interface/PLC-controls with color monitor
- Optional powered and/or electronic thickness control
- Optional pre-heat with electronic temperature controls
- Optional intermediate rollers for short parts
- Optional outfeed roller kits

**OPTIONAL EQUIPMENT**
- 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
- Electrical thickness control with positioning unit

**CONTROL PANEL**
- Allen-Bradley PanelView™ with color monitor

**OPTIONAL PRE-HEAT**
- Optional pre-heat with top and/or bottom IR heaters and electronic temperature controls

**OPTIONAL OUTFEED SUPPORT ROLLER**
- Powered outfeed support roller
WATER BASE LAMINATING SYSTEM
with CP 400/500 HD Hydraulic Cold Presses

WATER BASE LAMINATING SYSTEM
with RP 400/500 H Heated Roller Presses
HYDRAULIC PRESSES
Hot & Cold Presses

**CP 400/500 LT LIGHT-DUTY COLD PRESSES**
Ideal for small shops where light duty laminating is required at an economical price.

Hydraulically operated platens increase the flexibility of the press and eliminate the need for a special air compressor typically required with an air pod press.

**FEATURES**
- HMI/PLC controls
- Downstroke design
- Self-contained hydraulic pump
- Pressing cylinders are ground & chrome-plated
- Rack & pinion guiding system
- Lower platen has spring-loaded rollers
- Single & multiple platen configurations

Optional equipment includes powered drive wheels and cylinder isolation valves.

**CP 400/500 HD HEAVY-DUTY COLD PRESSES**
Designed for high volume applications where panels of similar sizes are laminated in a batch environment. Hydraulically operated platens increase flexibility of the press and eliminate the need for a special air compressor typically required with an air pod press.

**FEATURES**
- HMI/PLC controls
- Downstroke design
- Self-contained hydraulic pump
- Pressing cylinders are ground & chrome-plated
- Rack & pinion guiding system
- Single & multiple platen configurations
- Machined top & bottom platen(s) for flatness
- Lower platen includes spring-loaded rollers
- Side & end-loading configurations

Optional equipment includes powered drive wheels, cylinder extension kit, and cylinder isolation valves.

**ORMA NPC DIGIT™ HOT PRESSES**
Designed for flat panel laminating of high pressure laminates, backer sheets, wood veneers, and other decorative laminates to particle board or MDF cores. The press can be operated hot or cold with production capability expanded at a later date by adding intermediate platens.

**FEATURES**
- HMI/PLC controls
- Upstroke design
- Self-contained, 2-stage hydraulic pump
- Automatic pressure recovery system
- Ground & chrome-plated pressing cylinders
- Rack & pinion guiding system
- Pressure & temperature gauges
- Fabricated on drilled solid steel plates
- Side & end-loading configurations
- Electric, water or oil heating systems

Optional equipment includes automatic loading/unloading, parallel sensor, cylinder isolation valves, and intermediate platens.

**ORMA NPC/A AUTOMATIC HOT PRESSES**
Hot press systems up to 460 tons of total force in downstroke design, all at an affordable price. Automatic loading and unloading increases productivity and reduces labor.

**FEATURES**
- HMI/PLC controls
- Upstroke design
- Self-contained, 2-stage hydraulic pump
- Automatic pressure recovery system
- Ground & chrome-plated pressing cylinders
- Rack & pinion guiding system
- Pressure & temperature gauges
- Fabricated on drilled solid steel plates
- Side & end-loading configurations
- Electric, water or oil heating systems

Optional equipment includes automatic loading/unloading, parallel sensor, cylinder isolation valves, and intermediate platens.

**Domestic Parts and Service = Dependable, Uninterrupted Service**
COMPLETE WATER BASE LAMINATING SYSTEM
with ORMA LCC Short-Cycle Press

ENGINEERING FLOOR PLAN DRAWING

PRODUCT FLOW

TYPICAL APPLICATIONS

ORMA LCC Short Cycle Press
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.