



Water Base Laminating Systems

MA MIDWEST
AUTOMATION

Innovative Products for Innovative People

midwest 
GROUP ONE

Water Base Laminating Systems

Panel Cleaners & Glue Spreaders



PC 140/160 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 Include

- Two cylindrical brushes & 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 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 Include

- 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.



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

GS 300/400 Glue Spreaders SOL. 6

A rugged 4-roller glue spreader designed for precision application of PVA glues, water base adhesives and two component materials.

Features Include

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

Optional equipment includes powered and electronic thickness controls, automatic cleaning system, and automatic level sensing controls.



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 Include

- Large diameter spreading & dosing rollers
- Cast iron roller supports
- Independently driven roller groups
- Handwheel operated panel & 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.



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

LS6 & 7

477.75

Pinch Roll Presses

PR 250 Pinch Roll Press

Economical 5-foot wide pinch roll press for small to medium size shops.

Features Include

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

Optional equipment includes segmented bottom roller and powered outfeed support roller.



PR 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 Include

- 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.



Direct drive with helical gear & optional pneumatic control system.

Heated Roller Presses

RP 400/500 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/or heater sections.

Features Include

- Modular design
- Welded structural tube frame
- Large diameter, precision-ground, silicone-covered rollers
- Electronic variable speed control
- Individually driven upper & lower rollers
- Powered thickness control
- Infrared heaters with electronic temperature controls
- Operator interface/PLC-controls with color monitor

Optional equipment includes infeed hold down kit, intermediate rollers, IR heat sensor kit, and outfeed support roller.



Inside view showing lower silicone rollers, infrared heaters, and intermediate rollers.

Control Panel



Allen-Bradley PanelView™ with color monitor.

Hold Down Kit



Infeed hold down roller kit prevents laminate curling.

Outfeed Support Roller

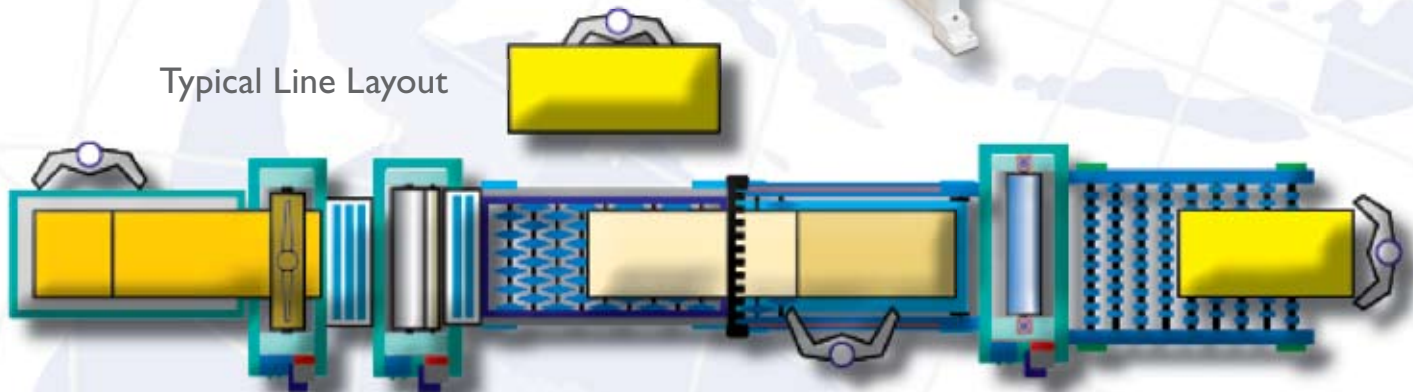


Powered outfeed support roller.

Water Base Laminating System with Pinch Roll Press



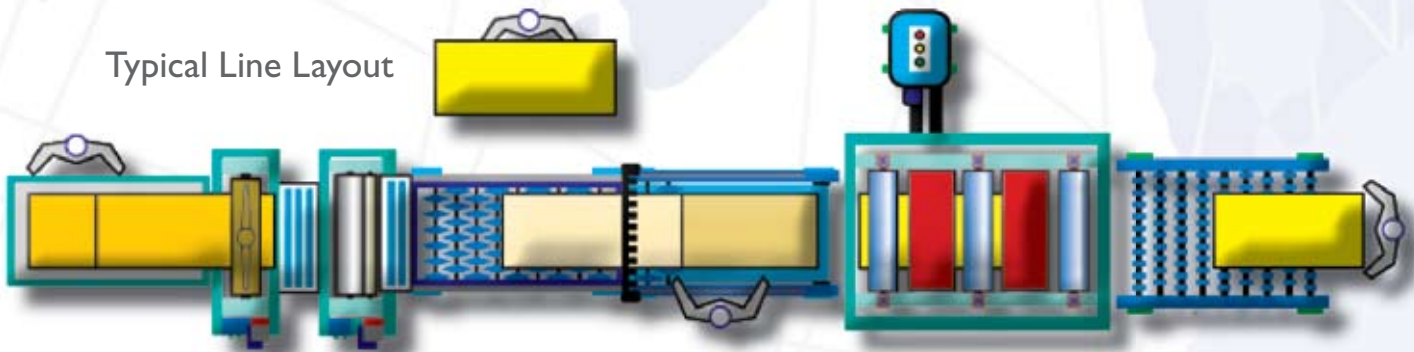
Typical Line Layout



Water Base Laminating System with Heated Roller Press



Typical Line Layout



Hydraulic Presses from ORMA•Midwest

P/PCL 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 Include

- Downstroke design
- Self-contained hydraulic pump
- Pressing cylinders are ground & chrome-plated
- Rack & pinion guiding system
- Single & multiple platen configurations

Optional equipment includes pressure recovery system, timer and cylinder extension kit.



Features Include

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

Optional equipment includes timer, cylinder isolation valves and powered loading/un-loading rollers.

PFL 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.

SOL. 11

41.00

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 Include

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

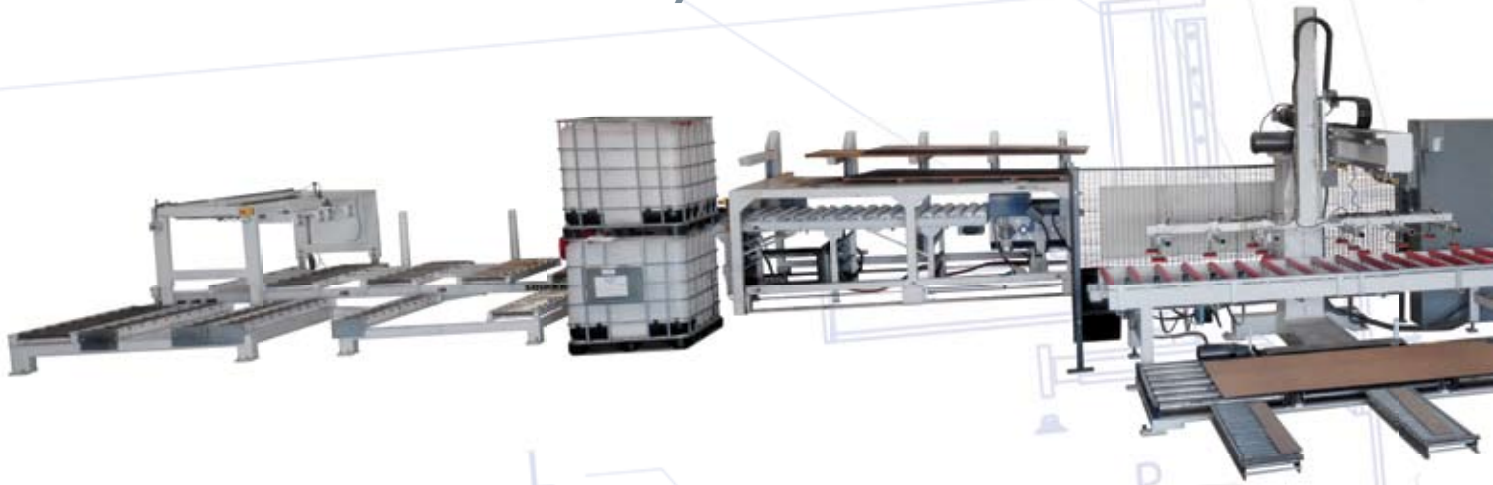
Optional equipment includes automatic loading/un-loading, parallel sensor, cylinder isolation valves, and intermediate platens.

NPC/A Automatic Hot Presses

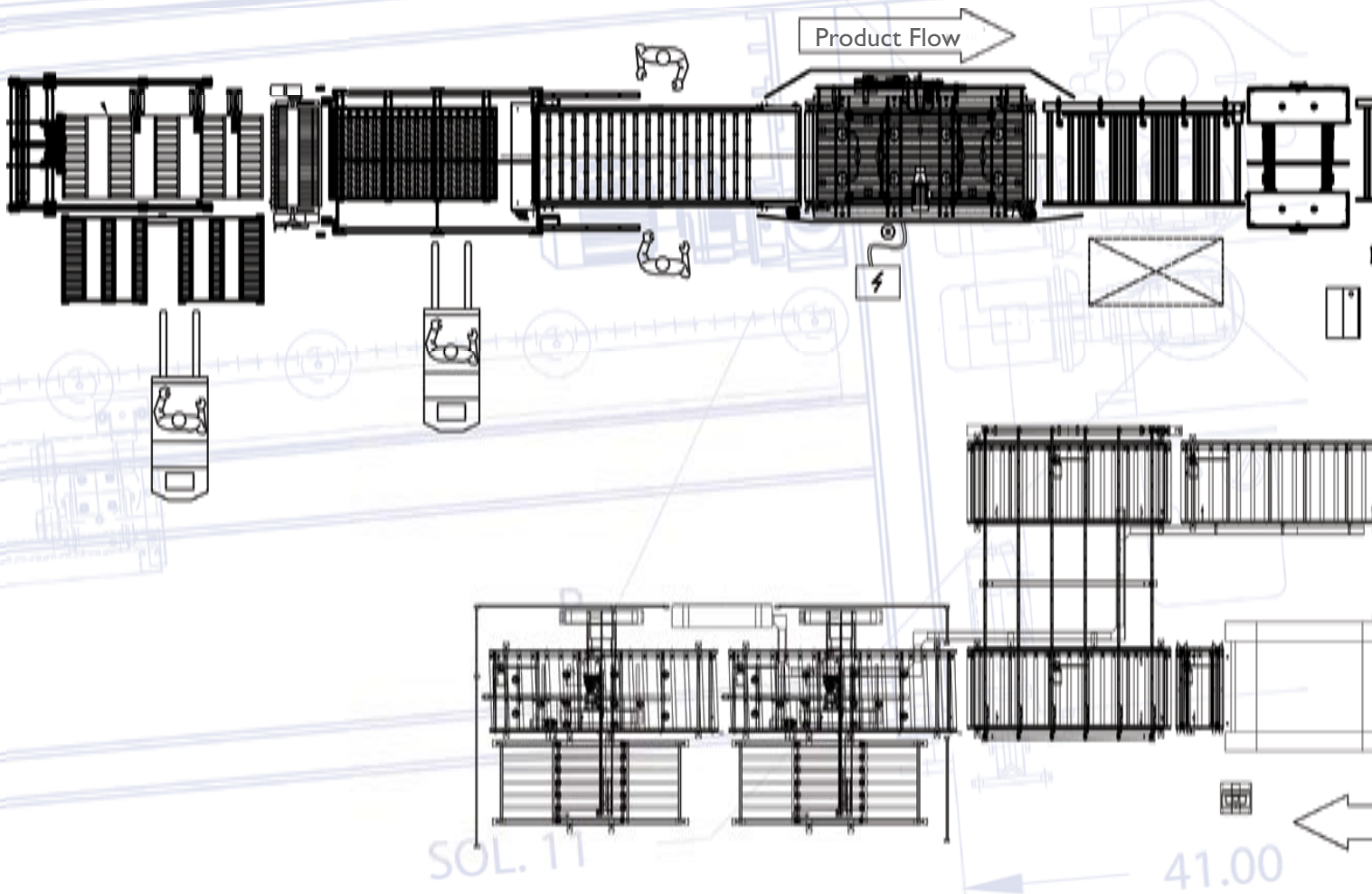
Hot press systems up to 240 tons of total force in upstroke and downstroke configurations, all at an affordable price. Automatic loading and unloading increases productivity and reduces labor.

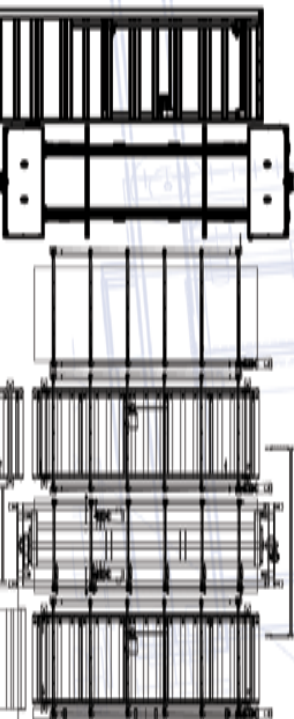


Complete Water Base Laminating System with ORMA LCC Short Cycle Press

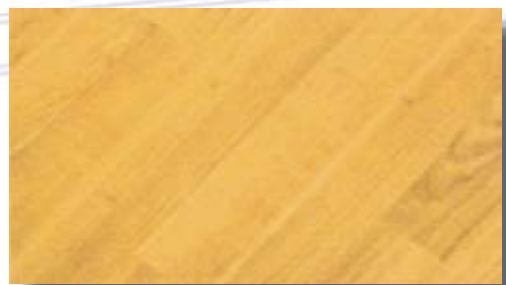


Engineering Floor Plan Drawing





Typical Applications



Midwest Automation, founded in 1959, offers the widest variety of water base laminating systems in the world today.

From extremely simple systems using a single pinch roll press to a fully automated system using an ORMA Macchine short-cycle press, Midwest Automation has a system for virtually every customer application and production requirement.

Flat Panel Laminating

MACHINERY & SYSTEMS



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