

*Material Handling  
Equipment*



**MA** MIDWEST  
AUTOMATION

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GROUP ONE

# Material Handling Equipment

## Panel Feeders

The **PF 1500V Panel Feeder** is designed with vacuum cups and a fixed forward position to feed panels of random lengths from a lift table without setup.

### Features include:

- Pneumatic pusher with 24 inch (610mm) stroke
- Vacuum carriage with three (3) adjustable vacuum cups
- Vacuum cups have individual vacuum generators
- Vacuum carriage pivots for ease of loading
- Adjustable working height & panel thickness
- Feed rates up to six (6) cycles per minute
- Optional SL 400/500 Lift Table



The **PF 1512 Panel Feeder** is designed to automatically feed panels from a lift table with a pneumatic pusher. The frame is mounted on casters and the pusher arm on a profile slide for easy length and width adjustment.



### Features include:

- Frame mounted on casters for easy length adjustment
- Pneumatic pusher with 24 in (610 mm) stroke
- Pusher arm includes two (2) adjustable flip up stops
- Adjustable working height
- Optional floor mounted bunk stops
- Optional SL 400/500 Lift Table

*Shown with Optional SL 400/500 Lift Table*

The **PF 2500 Panel Feeder** is designed to automatically feed panels from a lift table with an electronic pusher arm, eliminating setup. The arm is mounted on a linear guiding system, and raises for ease of loading.

### Features include:

- Electronic pusher arm with timing belt
- Adjustable feed rates up to (6) cycles per minute
- Pusher arm includes (4) adjustable flip-up stops
- Pusher arm can be pneumatically raised for loading ease
- Guiding system by cam follower bearings on hardened ways
- PLC controlled sequence of operation
- Optional floor mounted bunk stops
- Optional SL 400/500 Lift Table



*Shown with Optional SL 400/500 Lift Table*

## Layup & Lift Tables

The **LT 500 Layup Table** is a simple, non-powered design and is ideal for top and/or bottom surface laminating. The LT 500 utilizes a traversing arm that transports the panel from the glue spreader over the top of the layup table, then gently places it onto the backer sheet.

### Features include:

- PVC coated transport rollers
- Minimum contact disc conveyor with stainless steel discs
- Galvanized water tray
- Traversing arm is cantilevered and guided on a twin rail
- Optional anti-deflection device
- Optional LR 500 Laminate Rack



Shown with Optional LR 500 Laminate Rack

The **LT 500A Layup Table** is designed to automatically transfer the panel from the layup area to the press using a PVA-coated, polyester woven belt powered for strength and durability.

### Features include:

- Same features as above, plus...
- Two (2) section slide-bed with formed steel plates
- PVC-coated, polyester woven continuous belt
- Fixed rubber-coated drive roller
- Adjustable steel idler roller with take-up bearings
- 1 HP drive synchronized to line speed
- Electrical panel with push bottom controls
- Emergency stops and cables



Shown with Optional LR 500 Laminate Rack

The **LS 500 Layup Station** is a simple, non-powered design for top and/or bottom laminating in a cold press application. The LS 500 utilizes a traversing arm that transports the panel from the glue spreader over the top of a lift table, then gently places it onto the backer sheet, making a stack of panels. The LS 500 can be used with either an existing lift table or an optional SL400/500 Lift Table provided by Midwest.



### Features include:

- Minimum contact disc conveyor with stainless steel discs
- Galvanized water tray
- Traversing arm is cantilevered and guided on a twin rail with cam follower bearings
- Optional SL 400/500 Lift Table
- Optional LR 500 Laminate Rack
- Optional anti-deflection device

## Disc Conveyors & Lift Tables

The **DC 300/400/500 Disc Conveyor** is designed with minimum contact stainless steel discs to transfer panels from the glue spreader to the layup table without disturbing the glue on the bottom surface.



### Features include:

- 5-1/2 inch (140 mm) diameter stainless steel discs
- Plated shafts with sealed ball bearings
- Galvanized water tray with drain valve
- Gravity feed roller shafts
- Adjustable working heights
- Optional powered discs with variable speed controls

The **SL 400/500 Hydraulic Lift Table** is designed to meet or exceed ANSI MH 29.1 requirements for industrial lift tables and are ideal for handling large, heavy panels with minimum deflection.



### Features include:

- All pivot points have hardened pins in maintenance free bushings
- Hydraulic lifting cylinders are ground and chrome plated
- Self-contained hydraulic pump
- Foot pedal controls
- Auto leveling package

The **Power Belt Conveyor** is designed to transport panels or other materials between machine operations.

### Features include:

- Three (3) 1-1/2 inch (38mm) wide rough top belts with crown pulleys
- Belt supports with UHMW guides
- Universal belt tensioning device
- 0.5 HP AC drive motor
- Emergency stop
- Optional powered & electronic width adjustment
- Optional electronic variable speed drive



## Powered Conveyors

The **Powered Roller Conveyor** with optional pneumatic hold-over device ensures that the panel is aligned properly to the fixed side as it enters the machine.

### Features include:

- Fabricated steel frame
- 1.9 inch (48mm) diameter steel rollers
- 6 inch (152mm) spacing between rollers
- 0.5 HP AC drive motor
- Line shaft drive with O-rings
- Optional direct drive with sprockets & chains
- Optional urethane covered rollers



**RC 400 Powered Roller Conveyor** with optional pre-heat is most often used in a Hot Melt Glue Spreader (PUR) Laminating System where the core needs to be pre-heated to extend the adhesive "open" time.

### Features include:

- Fabricated steel frame with adjustable legs
- 1.9 inch (48mm) diameter unplated steel rollers
- 6 inch (152mm) spacing between rollers
- 0.5 HP AC drive motor
- Emergency stop cables
- Optional direct drive with sprockets & chains
- Optional IR Pre-Heat with controls



**Powered Roller Conveyor** with side shift belts and adjustable discs.

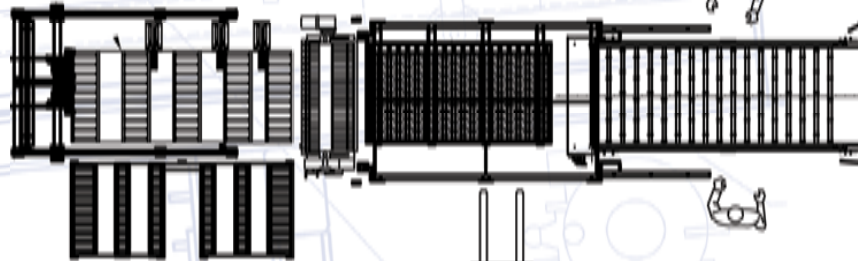


### Features include:

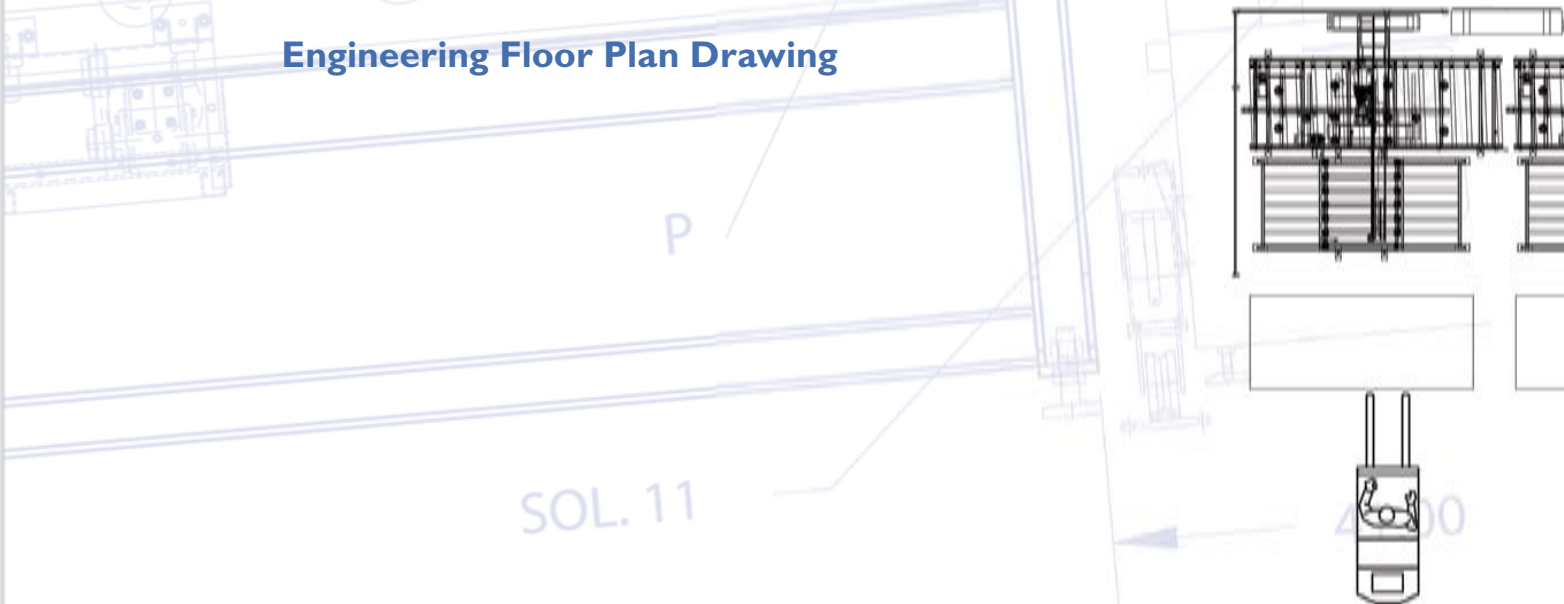
- Fabricated steel frame
- 1.9 inch (48mm) diameter steel rollers
- 6 inch (152mm) spacing between rollers
- 0.5 HP AC drive motor
- Line shaft drive with O-rings
- Optional direct drive with sprockets & chains
- Optional urethane covered rollers

*Shown with Optional Infrared Heater*

# Water Base Laminating System with ORMA LCC Short Cycle Press

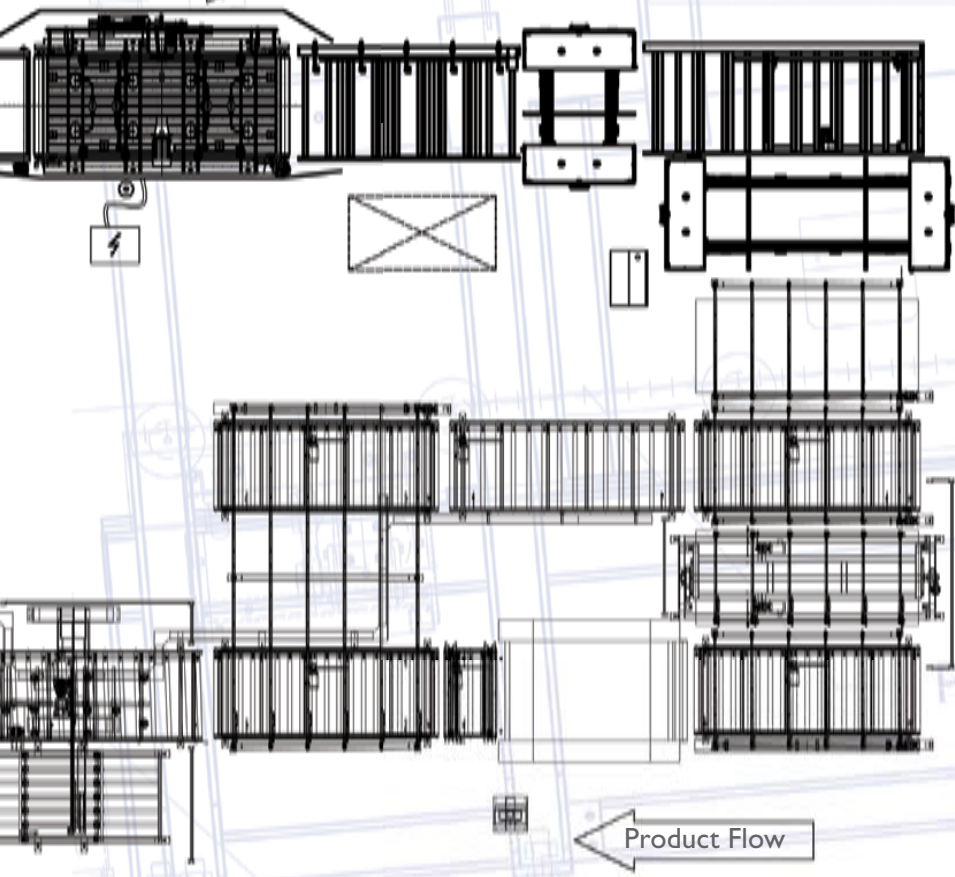


Engineering Floor Plan Drawing





Product Flow



LS6 & 7

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