

# Northfield

## Model 1700 Automatic Panel Stacker



- Fully Automatic** - stacks the output of panel processing equipment.
- Versatile** - handles a wide range of sizes and materials. Finished loads are accessible from three sides.
- Portable** - can be moved by one person for use with different machines in your plant.
- Self-Contained** - no other equipment such as scissors lifts to buy.
- Labor-Saving** - reduces handling cost, eliminates a tedious job.

PROFIT THROUGH AMERICAN TECHNOLOGY  
**WOOD MACHINERY  
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**The Model 1700 Panel Stacker** is fully automatic and will handle a wide range of panel sizes and thicknesses, and a variety of different materials such as wood, fiber board, pressed wood, cardboard, and plastic. The Stacker builds a load up to five feet high on shop trucks, skids, or pallets. The Stacker can be ordered with a unique attenuating device which stops the forward movement of the panel, and lowers it slowly to the pile. In many applications this will eliminate the need for a backstop. The machine is ruggedly constructed, and yet portable so it can be used on different jobs. Maintenance is easy since the machine has no hydraulics, pneumatics, or complicated electronics.

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## Model 1700 Automatic Panel Stacker

### LATERAL TRANSFER OPTION

(must be ordered with machine)

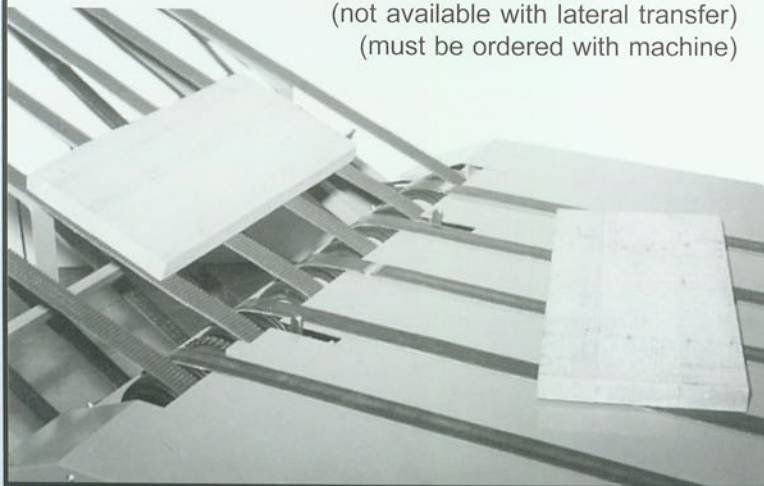


### ADJUSTABLE SQUARING STOP



### PANEL STRAIGHTENING OPTION

(not available with lateral transfer)  
(must be ordered with machine)



The **LT Lateral Transfer** option, consists of powered elevating rollers spaced between the feed belts for converting the lengthwise motion into crosswise motion, makes it possible to easily stack doors, plywood sheets, and other large products which are too large to be stacked lengthwise.

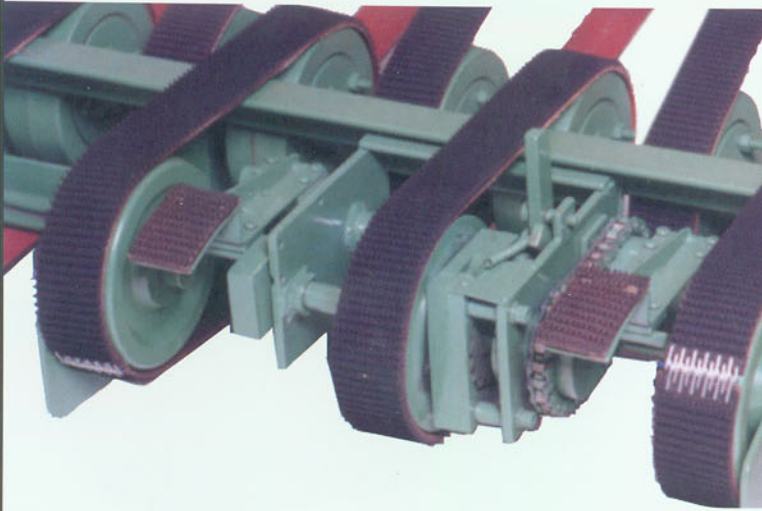
The **Stacker**, which is readily portable, is positioned with its side next to the primary machine, such as a sander. The product makes a right-angle lateral movement on the stacker, and the stack is built to the right of the primary machine as viewed from the operator's position. The machine can still be used as a standard stacker, or it can be used in applications where there is insufficient space for a standard stacker, since only the width of the machine (60") is required behind the primary machine with this option.

An **Adjustable Squaring Stop** is part of the lateral transfer option. This allows large components to be centered on the input deck and boom assembly before the belts lift and change part direction. This results in improved stack registration.

When panels are delivered skewed, as in many sanding or abrasive planing applications, we recommend our **Panel Straightening** option. During operation, two pins remain rigid allowing the panel to pivot, and mechanically releases only when both pins are contacted. This assures the correct alignment of the panels with the attenuating device, permitting it to function properly.

The **Panel Straightening** option and the **Magnetic Fence** option are compatible, and excellent results are obtained using both.

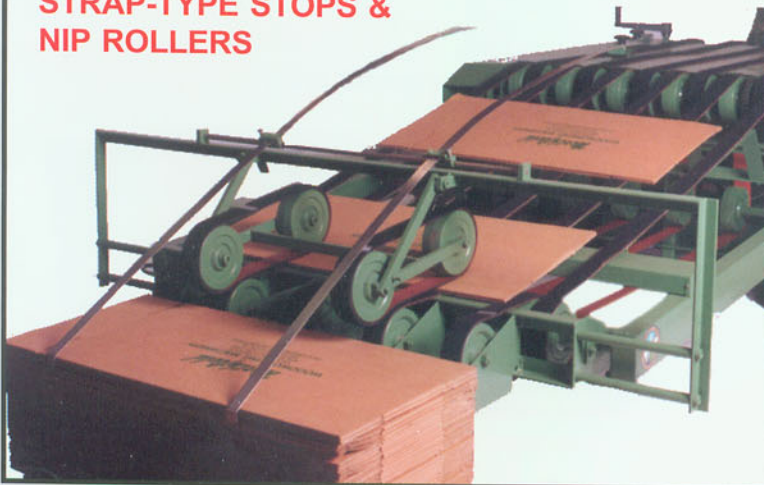
## PANEL ATTENUATOR (may be added anytime)



Our **Panel Attenuator** is normally furnished except for stacking very light panels, to retard the motion of the panel as it is delivered to the top of the stack. When the trigger is released by the panel, the rubber covered fingers extend out, stop the forward motion of the panel, lower it gently to the pile, and continue their cycle back to the ready position.

This device assures that the panels are evenly aligned front to back, and eliminates the need for a back-stop to perform this function. Use of the attenuating device allows removal of the finished load from any of three sides, and permits stacking of more than one size stock on to the same pallet. Use of attenuator at belt speeds below 75 fpm not recommended.

## STRAP-TYPE STOPS & NIP ROLLERS



Our **Strap-Type Stops** consist of two adjustable bands secured at one end onto a cross-bar, and having a hook shaped bend at the other. The sheets slide out onto the stack, and their motion is terminated when the leading edge of the sheet hits the bend in the strap. This option is compatible with our nip-roller option since they both mount on the same cross-bar.

The **Nip-Roller** option provides additional traction on thin sheets that might not otherwise feed to the end of the conveyor, once they are on the stack. A spring load device is available to provide additional down pressure on nip rollers.

## Adjustable Input Height Standard



DECK LOWERED



DECK RAISED



ELEVATING MECHANISM

The input deck height is adjustable to match various process machinery via retractable handcrank. The height is adjustable from 32½" to 41". The deck is elevated by means of 3 ball screw, and chain drive.

## MAGNETIC FENCE OPTION

(not available with lateral transfer option)



A **Magnetic Fence** is available which is useful when panels are not being fed onto the stacker in perfect alignment, but slightly skewed, such as in many sanding or abrasive planing operations. This fence assures straight and even sides on the stack.

The fence can be positioned anywhere on the input deck, and is secured by turning the knobs which control the magnetic force. No tools are needed. When the knobs are turned to the "Fasten" position, the fence grips with tremendous force, and yet can easily be removed by turning the knobs to the "Release" position. When not needed, the fence can be stored on the side of the stacker.

## SPECIFICATIONS

<b>Capacity of Stock</b> .....	12" x 14" to 48" x 96" and up to 1-3/4" thick
<b>Input Height</b> .....	Adjustable from 32-1/2" to 41"
<b>Floor Space Required</b> .....	Machine is 132" long and 60" wide
<b>Electrical requirements</b> .....	240 volt, 3 phase, 60 cycle 480 volt, 3 phase, 60 cycle Total draw 4 amps at 230 volts Other requirements available on special order
<b>Electric Motors</b> .....	Belt - 3/4 H.P. 1800 rpm Hoist - Torque motor with brake Lowering - 1/3 H.P. 3450 rpm
<b>Electric Controls</b> .....	Start - Stop Lower - brings output booms down to start new stack
<b>Switches</b> .....	Height switch - Micro switch mercury type Upper limit switch - Micro switch
<b>Load Height</b> .....	Up to five feet from floor
<b>Belt Speed</b> .....	95 feet per minute Other speeds available

## ACCESSORIES

**Lateral Transfer** *(must be ordered with machine)*

**Panel Straightener** *(must be ordered with machine)*  
*(not available with lateral transfer)*

**DC Variable Speed, 0-100 FPM** *(not available with lateral transfer)*

**Attenuator** *(Contact factory for use with DC drive)*

**Retractable Lift Hooks** *(not available with lateral transfer)*

**Magnetic Fence** *(not available with lateral transfer)*

**Strap Type Stops**

**Nip Rollers**

**Spring Load for Nip Rollers**

**Strap Stops & Nip Rollers**

**14" Infeed Shelf**

## SPECIAL REQUIREMENTS WELCOMED!

NORTHFIELD has a fine line of other automation products for the woodworking industry. We also design and build custom automation equipment. If you have a need for a special machine, we would welcome the opportunity to discuss your requirements.

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