

DOUCET

AP AUTOMATIC PANEL FEEDER

The AP Automatic Panel Feeder speeds up and facilitates material placement onto the front table of any finishing machine such as a panel saw or a sander. Teaming-up your advanced production system with a feeding device improves consistency, and helps reduce risk of occupational injuries with handling heavy and cumbersome panels.



AP GENERAL VIEW



AP OPERATION CONSOLE



AP PUSHER ARM



CHARACTERISTICS & OPERATION

- The AP Automatic Panel Feeder is designed to feed panels up to 4 or 5 feet wide by 8, 10, 12 or 16 feet long onto any receiving unit;
- Feeding from right to left OR from left to right;
- Safety perimeter and controlled access.

THE AUTOMATIC PANEL FEEDER COMES COMPLETE WITH:

- An hydraulic power unit for efficient motorization of the hydraulic lift table and the rollers;
- A 5,000 lb hydraulic lift table with a roller conveyor. Three rollers are motorized; rollers are at 15" center to center;
- An hydraulic motorized pusher arm with longitudinal control for stroke length and vertical control for the desired number of panels to be fed;
- A control panel with PLC controller featuring a panel thickness selector (for up to four different thicknesses), a selector for the number of panels to be fed per feeding cycle, and a counter adding up the number of panels fed through. All operations can be performed in manual or automatic mode, as desired;
- An input in the PLC is prepared for "Authorization to feed" to insure the next machine is in operation before pushing a panel.

OPTIONS & SPECIFICATIONS

- Electric powered pusher arm instead of hydraulic (required for high speed feeding applications as this option allows to increase pusher arm return speed to reduce cycle time per panel);
- Pusher arm with manual adjustable thickness (required when feeding multiple panels per stroke in beam saw feeding application);
- Pusher arm with adjustable thickness using the HMI interface (required when feeding multiple panels per stroke in beam saw feeding application);
- Beam saw interface featuring 4' idler roller conveyor;
- Thin sheet loading singulator for panel between 1/8" and 1/4";
- Gangrip saw pre-alignment roller conveyor with lateral pneumatic pusher;
- Thickness selector from operator interface;
- Material thickness;
- Pallet or dummy sheet thickness offset with pallet or dummy sheet;

- E-won connection module for remote trouble shooting and programming changes capability using Ethernet.

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