



Doucet Retyx Intelligent Return System Video

CONFIGURATION	DESCRIPTION
Retyx 2:	One pickup location and one drop off location (return conveyor), and bypass mode.
Retyx 2E:	One pickup location and two drop off locations (return conveyor and auxiliary conveyor), and bypass mode.
Retyx 3:	One pickup location and two drop off locations with stacking (return conveyor and a pallet for stacking), and bypass mode.

## PANEL SIZE CAPACITIES

- Minimum panel dimensions: 3" width x 8" length
- Maximum panel dimensions: 36" width x 96" length (This is configurable depending on customers needs)
- Panel thickness: 1/2" to 2-1/4"
- Maximum panel weight: 200 lbs.

## CYCLE SPEED RATE

- Return mode: 12 cycles per minute maximum.
- Stacking mode: 7 cycles per minute maximum.

## **CUSTOMER BENEFITS**

1. Labor Savings – Only one operator is needed to run the edge banding cell.
2. Lower Costs to Manage Quality Control – The gentle handling of panels results in less dropping, scratching, and other damage.
3. Increased Efficiency – The operator no longer needs to stack parts after the final pass.
4. Flexible Personnel Organization – Heavy Panels are now easily maneuvered by any operator.
5. Predictable Process – With a return system we have a very predictable process due to continuous, repeatable cycle times.

## **PROGRAMMING THE MACHINE**

The RETYX has pre-programmed “recipes” for standard operations, which can be easily configured by the operator through the user-friendly HMI (Human-Machine Interface). No programming experience is necessary.

The RETYX can also work within a production line that is organized with a barcode or RFID system. The additional features add approximately \$10K-20K to the machine’s total cost.

## **DOES THE RETYX NEED TO BE ADAPTED TO AN ERP FOR IT TO WORK?**

No, the RETYX does not need to be adapted to an ERP system, as it was designed to be a standalone machine that can easily be added to existing machines in the field. It is possible to operate the machine autonomously, with the operator dictating the path each panel must take.

## **THE RETYX VS. A REGULAR RETURN CONVEYOR LIKE THE SRH**

Both the RETYX and other return conveyors have roughly the same mission, which is to return the parts to the operator at the entrance, in addition to allowing the removal of an operator at the exit of the edgebander.

The system is programmed to recognize when the panel has completed its final pass, and it then proceeds to perform the requested task, such as stacking it onto a pallet instead of returning it to the operator at the banding machine entrance. This helps to minimize the amount of handling required during the production day. Additionally, the RETYX is capable of rotating the part that is returned to the operator in the correct orientation for the next pass, provided that the size of the part allows for it. This feature helps to reduce unnecessary movements by the operator.

## **RETYX VS. THE COMPETITION**

European manufacturers are often leaders in the development of new technologies for many industries, and wood processing is no exception. Currently, RETYX’s main competitors are in Europe.

Although European companies are known for their technological advances, the advantages of a North American-made product like RETYX are considerable.

- Shorter delivery time
- English-speaking customer service available
- Easily accessible spare parts and technical expertise
- Lower total cost of ownership

## **RETYX DURABILITY**

The RETYX system is designed with many of the same components as its competitors in the solid wood industry. These systems have been delivered all over North America, many running for more than 10 years, 2-3 shifts per day with no problems.