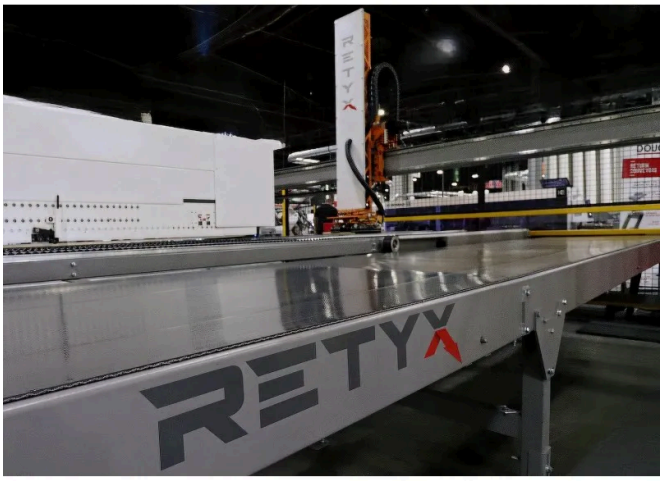
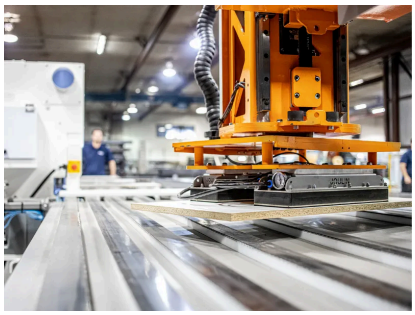
DOUCET

RETYX - INTELLIGENT PANEL RETURN CONVEYOR SYSTEM

The RETYX, an articulated arm with vacuum grip, automates the handling of the panels at the infeed and outfeed of your edgebander. With similar features than a typical return conveyor, it has the advantage of presenting the parts in the right orientation for the next pass, allows automatic stacking and unstacking in the areas provided for this purpose.





RETYX

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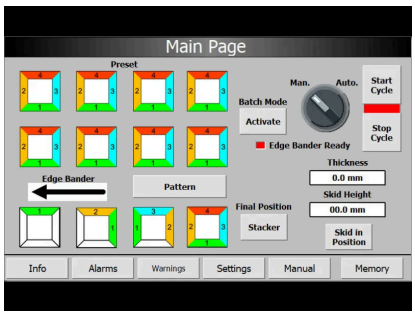

HMI

WARRANTY 1 YEAR

CHARACTERISTICS & OPERATION

A 3-axis vacuum grip manipulator paired with receiving and return conveyors to handle the panels with care while maintaining a high cycle rate. The manipulator by its translation in vertical and horizontal moves the panels from the reception to the return zone or the stacking zone. It is also possible to use a zone to unstack the incoming panels in the production cell according to the operating mode. In addition to all these movement actions from one area to another, there is an axis of rotation to orient the panels for their next passage through the edgebander. Before feeding, the operator chooses the type of production and selects the number of passes of the panel to be fed. Depending on the pattern of production, RETYX performs the operation planned at this stage in the sequence.

- Vacuum grip manipulator / 40" vertical and 120" horizontal translation or stroke or movement;
- Rotation from minus 90 to plus 180 degrees;
- Receiving conveyor with 6 motorized belts 9' long including motorized infeed arms to interface with the edgebander;
- 36" wide belt return conveyor with length adjusted according to edgebander;
- A 60" x 36" air table with pneumatically activated up/down mechanism to receive the panel at the exit of the belt conveyor & One 24" x 36" feeding air table, fixed height;

Pannels dimensions capacity

- Minimum: 3" wide X 8" long;
- Maximum: 36" wide X 96" long;
- Thickness: between ½ and 2 1/4"
- Maximum weight: 200 lb;

Production speed rate

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