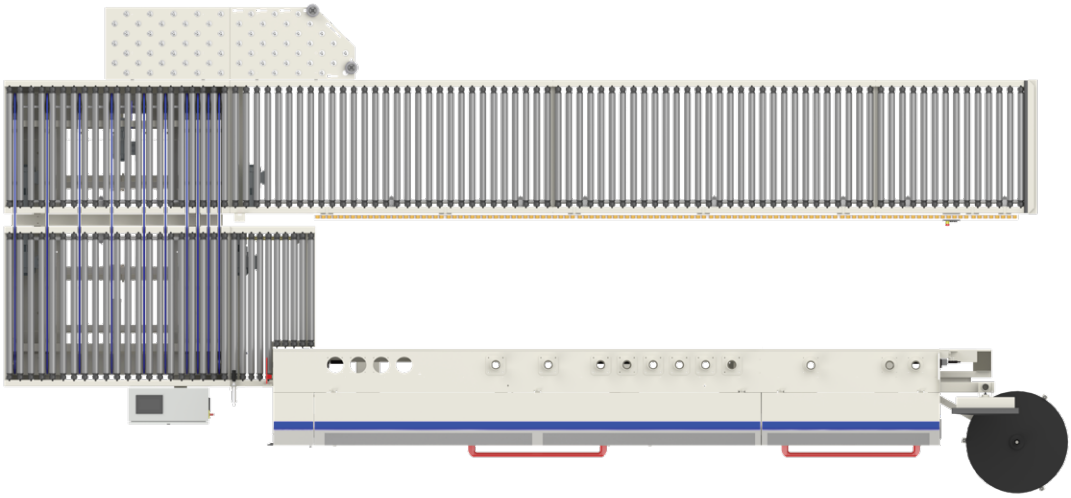
EDGE Automation

Connect

Return Conveyor System



A variable-feed return conveyor system that keeps your operations running at full capacity — with less handling and more throughput.



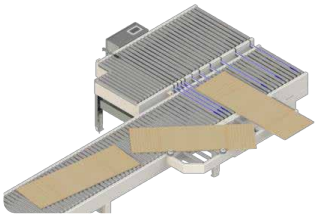
The **Connect Return Conveyor System** is designed to boost productivity in woodworking by moving panels from the outfeed side of the edgebander back to the infeed position automatically — enabling single-operator, continuous production. Built in-house to industry-leading standards, it **reduces manual handling, automates panel return and rotation, and gives operators effective operation control over every stage of the banding cycle.**

Features



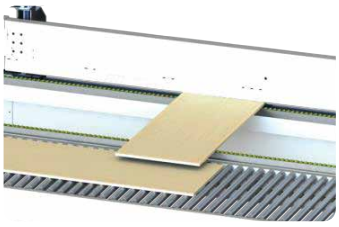
Panel Kicker

- Angles narrow panels so transfer belts grab them properly.
- Uses sensors to detect width and only "kicks" panels under a set width; settings are adjustable.



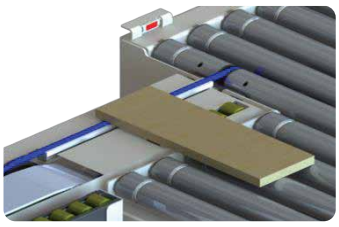
Panel Rotator

- Allows conveyor to accomodate panel lengths.
- Rotates panels to the next edge for banding, eliminating the need for manually rotating large panels.



Panel Support Rollers

- Ideal for long/thin panels that may sag/deflect.
- Allows returning panels to pass under panels being banded, when paired with the panel rotator.
- Limits the need for operator assistance.



Panel Exit Assist

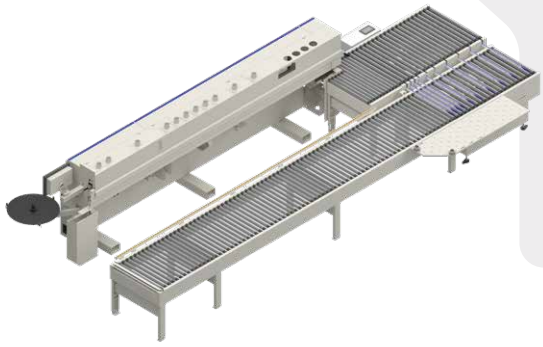
- Prevents a "dead zone" at the edgebander outfeed, especially for small panels.
- Increases reliability and repeatability of transfers by positively engaging panels with a driven belt.

Powering Productivity Through Innovation

Connect

Specifications

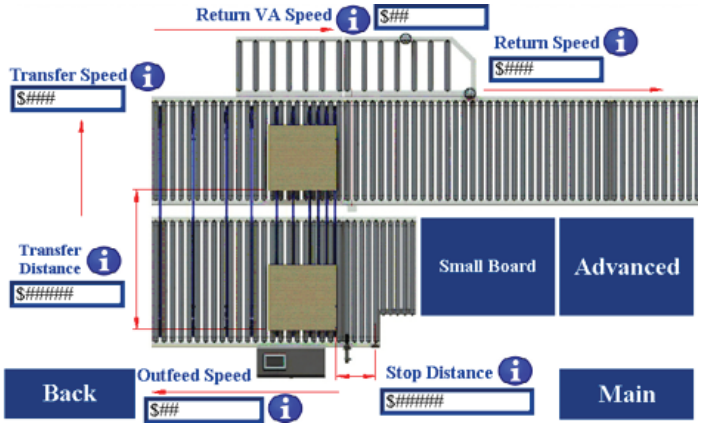
Configuration	900 / 3'	1200 / 4'
Max panel size — feeding all 4 sides	52" x 52"	64" x 64"
Max panel size — feeding longest side only	52" x 96"	64" x 120"
Max panel size — feeding 4 sides with panel rotator	32" x 72"	44" x 96"
Min panel size — with panel kicker	3" x 8"	3" x 8"
Min panel size — with panel exit assist	3" x 6"	3" x 6"
Conveyor speed	Independently adjustable	



System Controls

Human Machine Interface (HMI) 7" touchscreen with PLC offers operator control:

- **Start / Stop and Emergency Stop** for full system control.
- **Fault Diagnostics & Monitoring** — real-time fault detection with a dedicated diagnostic screen for quick identification, troubleshooting, and clearing.
- **Independent Speed Control** for adjusting conveyor and belt speeds.
- **Timer Adjustment** for configuring timings and parameters.
- **Manual Override** for manual conveyor and kicker control.
- **Part Pass Counter** for production tracking.



Key Benefits

- **Increased Throughput:** Eliminate second operator at the outfeed of the edgebander — keeping production moving.
- **Reduced Physical Handling:** Panel kicking and rotation occur automatically, reducing repetitive lifting and repositioning at the machine.
- **Precise Operator Control:** Independent speed adjustment and configurable timers allow operators to tune the system to their specific panels and process.
- **Built for Production:** A resettable part-pass counter and real-time fault diagnostics keep the line accountable and easy to manage.
- **Adaptable Integration:** Compatible with a variety of edgebander models.
- **Decrease Material Waste:** Prevents scratches, dents, misaligned cuts.

Why Edge Automation?

vertical integration + controls/robotics + partnership + efficiency

EDGE Automation

Since 2002, Edge Automation has partnered with manufacturers who demand reliability and precision. We deliver custom-designed automation solutions.

Talk to an automation engineer

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