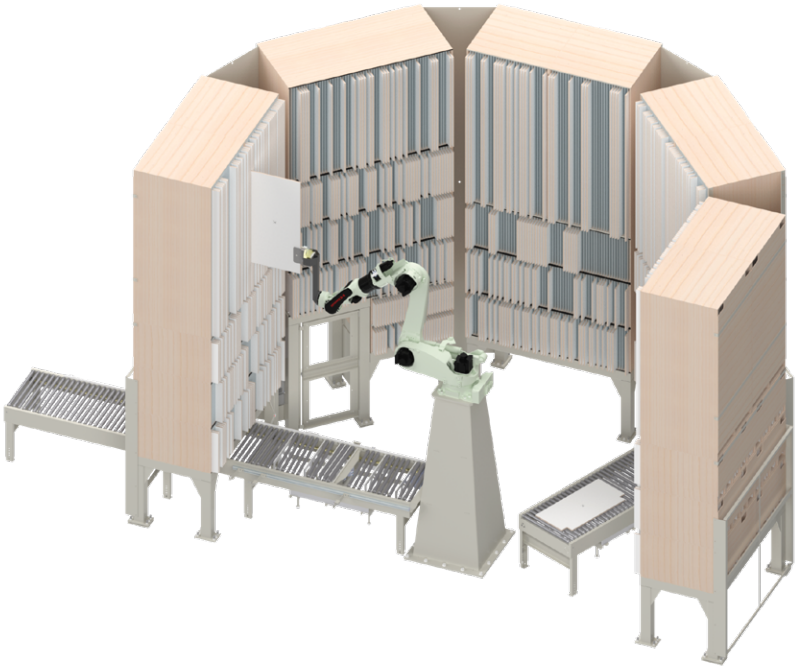
EDGE Automation

CabSort™ *vault*

Panel Storage & Sequencing



A high-capacity panel storage and sequencing system that holds cut parts — and delivers them to assembly in the right order, exactly when needed.

The **CabSort™ *vault*** by Edge Automation is an automated panel storage and retrieval system designed for high-volume woodworking production. By intelligently storing cut cabinet panels and sequencing them for downstream assembly, the Vault **eliminates search time, reduces floor clutter, and ensures assembly cells receive the right parts at the right time** — without manual digging or re-sorting.

What it Does

- Stores up to 3,200 cut cabinet panels in configurable rack systems sized to your space.
- Sequences and retrieves panels in the correct order for cabinet box or furniture assembly.
- Processes up to 1,200 panels in an 8-hour shift, keeping production smooth and efficient.
- Decouples cutting from assembly — so both operations run at their own pace without creating bottlenecks.

Best For

- Operations running multiple jobs simultaneously that need clean part separation and retrieval.
- Facilities looking to reduce WIP clutter on the floor between CNC cutting and assembly.
- Teams that spend time searching for or re-sorting panels before assembly can begin.
- Shops ready to fully connect their cutting cell to their assembly line.

CabSort™ vault

Specifications

Max panel storage capacity	3,200 panels – Octa*
Throughput	Up to 1,200 panels per 8-hour shift
Rack configuration	Configurable — 3, 5, or 8 racks
Shelves per rack	Up to 6 shelves
Panels per shelf layer	63 panels (based on 3/4" thick)
Shelf heights	96" / 48" / 32" / 24" / 15" / 7"
Max panel size	44" x 96"
Min panel size	3" x 8"
Max panel thickness	1" (25.4 mm)
Conveyor lanes	2 lanes (16' long)
Driven Sections	4 total (2 per length)
Footprint	Varies by configuration
Frame construction	Fabricated structural steel with wood panel and aluminum profile — slot-style panel storage

Storage & Sequencing

- Cut panels arrive from the CNC cell and are stored in assigned rack positions based on job, family, or build sequence.
- Barcode reader verifies each incoming panel's characteristics; positioning and skew are measured to ensure accurate pick and placement.
- The system tracks every panel's location and identity — no manual logging required.
- When assembly needs parts, the Vault retrieves and dispatches panels in the correct sequence for the cabinet box or furniture build.
- Configurable rack layouts allow the system to fit within your existing facility footprint.

System Intelligence & Controls

- **Job / Cabinet Inquiry:** This provides a clear picture of what's in the system and what's still incoming, helping inform priority decisions before assembly begins.
- **Assembly Sequence Setting:** Operators define the sequence in which panels are presented to the outfeed conveyor — by panel ID order or by panel size.
- **Assembly Priority List:** the order in which cabinets are unloaded from the Vault, streamlining the assembly workflow and enabling real-time reprioritization.
- **Storage Inventory Tracking:** A live inventory screen displays all panels in each rack — including unique identifiers, locations, and panel data. Can search for any panel and confirm its exact position in the system.
- **Work In Progress (WIP) Display:** A real-time display shows current cabinet unloading data, allowing the team to plan and prepare before parts arrive at the station.

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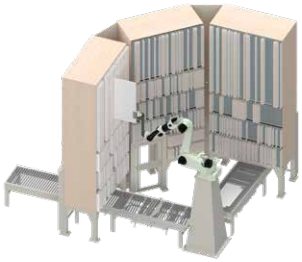
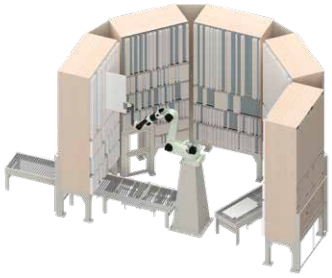
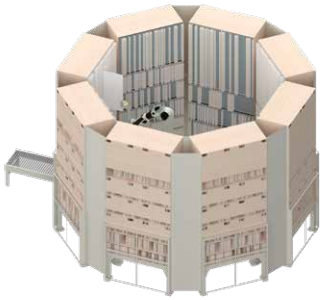
Operating Modes

- **Load**
  System accepts and places panels into storage only.
- **Unload**
  System retrieves and sequences panels to outfeed only.
- **Load & Unload**
  System loads and unloads panels from storage simultaneously.
- **Hold**
  System pauses in a controlled state until a new mode is selected.

Layout Configurations







Tribus — Quarter	Penta — Half	Octa — Full
Racks — 3	**Racks** — 5	**Racks** — 8
Shelves — Up to 18	**Shelves** — Up to 30	**Shelves** — Up to 48
Storage Capacity — Up to 960 panels	**Storage Capacity** — Up to 1,800 panels	**Storage Capacity** — Up to 3,200 panels
Floor Space — 26′ x 17′	**Floor Space** — 26′ x 19′	**Floor Space** — 30′ x 30′

Key Capabilities

- Up to 3,200 panel storage capacity.
- Configurable rack layout — 3, 5, or 8 racks — to fit your available floor space and workflow.
- Throughput: up to 1,200 panels stored and sequenced per 8-hour shift.
- Panels dispatched in the correct build sequence for cabinet box assembly or furniture production.
- Barcode verification on every incoming panel for accurate placement and retrieval.
- Operator-controlled sequencing by panel ID, panel size, or custom assembly priority.

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Key Benefits

- **Eliminates Part Search Time**
  Panels are stored with precise location tracking — assembly team always knows when all parts are complete and ready to assemble.
- **Decouples Cutting from Assembly**
  Panel processing and assembly can run independently, removing all bottlenecks where one waits on the other.
- **High Capacity, Configurable Footprint**
  Rack-based storage adapts to your available space — not the other way around.
- **Consistent Throughput**
  Up to 1,200 panels per shift means assembly lines stay fed without peaks and valleys.
- **Sequence Accuracy**
  Panels arrive at assembly in build order, reducing handling errors and rework.
- **Full Operator Visibility**
  The system's control software gives real-time inventory, WIP tracking, and sequence management from a single interface — no spreadsheets, no guesswork.

Create a Cohesive System

- CabSort™ Vault pairs naturally with the CabSort™ Family. Add CabSort™ Lite, Max, or Plus upstream of your CNC to automate unloading and sorting before panels reach the Vault — creating a fully connected flow from raw sheet to sequenced assembly output.
- Pair with CabSort™ Store to automate the full CNC cell: raw sheet loading in, sorted panels out, stored and sequenced for assembly.
- Connect to Our Conveyor Systems or Assembly Stations designed to integrate seamlessly with your woodworking machinery.

Ready to connect cutting to assembly? Ask about integrating CabSort™ *vault* with your existing CNC and sorting systems for a fully automated production flow.

Why Edge Automation?

vertical integration + controls/robotics + partnership + efficiency

Kitchen & Bath | Hospitality | Residential | Commercial | Industrial | Office Furniture

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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