EDGE Automation

HanDoor™ vault

Automate Storage and Retrieval



Right Part. Right Sequence. Every Time.

HanDoor™ Vault is a special-purpose robotic handling system that singulates, picks, and places doors, panels, sheets, and pre-hung units to **keep production lines running without interruption.**

What it Does

HanDoor™ Vault system stores and manages door sub-assemblies, including glass, frames, door slab, jambs, and accessories, while offering on-demand release of the door kit in sequence for the door pre-assembly and pre-hung door assembly.

Best For

- High-volume door manufacturers requiring accurate sequencing of sub-assemblies into assembly lines.
- Facilities managing multiple door configurations, SKUs, or job orders simultaneously.
- Operations that are losing time to manual part searching, mis-sequenced kits, or floor-level staging.
- Plants with limited floor space seeking high-density vertical storage.
- Assembly lines that require batch or singular release of door kits to match downstream cycle times.

Key Capabilities

- **Stores and sequences** up to 650 doors or kits per 8-hour shift, keeping production running smoothly and efficiently.
- **Configurable rack layouts** adapt to any manufacturing space and workflow — no facility redesign required.
- **Barcode reader** verifies each incoming panel's identity; positioning and skew are measured at intake to ensure accurate pick and placement.
- **Tracks** every panel's location and identity in real time — no manual logging or inventory counts required.
- **Retrieves and dispatches** panels in the exact sequence required for pre-assembly or pre-hung door builds.
- **Batch and singular release modes** allow the system to match the pace of downstream assembly stations.
- **Software/ERP integration capability**

Powering Productivity Through Innovation

HanDoor™ *vault*

Specifications

Length	Configurable 1' - 10'
Width	Configurable 1' up to 5'
Height	8"
Type	Glass, Frames, Slab
Max Weight	200 lbs
Storage capacity	64
Throughput	Up to 650 doors per 8-hour shift



Storage & Sequencing

- Doors or kits arrive from the paint department 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 or kit's location and identity — no manual logging required.
- When assembly needs parts, the Vault retrieves and dispatches doors and kits in the correct sequence for assembly.

HanDoor™ *vault* reduces labour costs, eliminates loss, and speeds door assembly.

Key Benefits

- **End the Material Chase:** Get real-time inventory information to ensure every part is accounted for and ready before starting assembly.
- **Reduce Handling Risk and Damage:** Automated verification and gentle picking and placing protect panels at every move, preventing damage, regardless of weight.
- **Vertical Footprint**: Dense modular high-bay racking system frees up valuable or limited manufacturing space.

Why Edge Automation?

vertical integration + controls/robotics + partnership + efficiency

Kitchen & Bath | Hospitality | Residential | Commercial | Architectural

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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