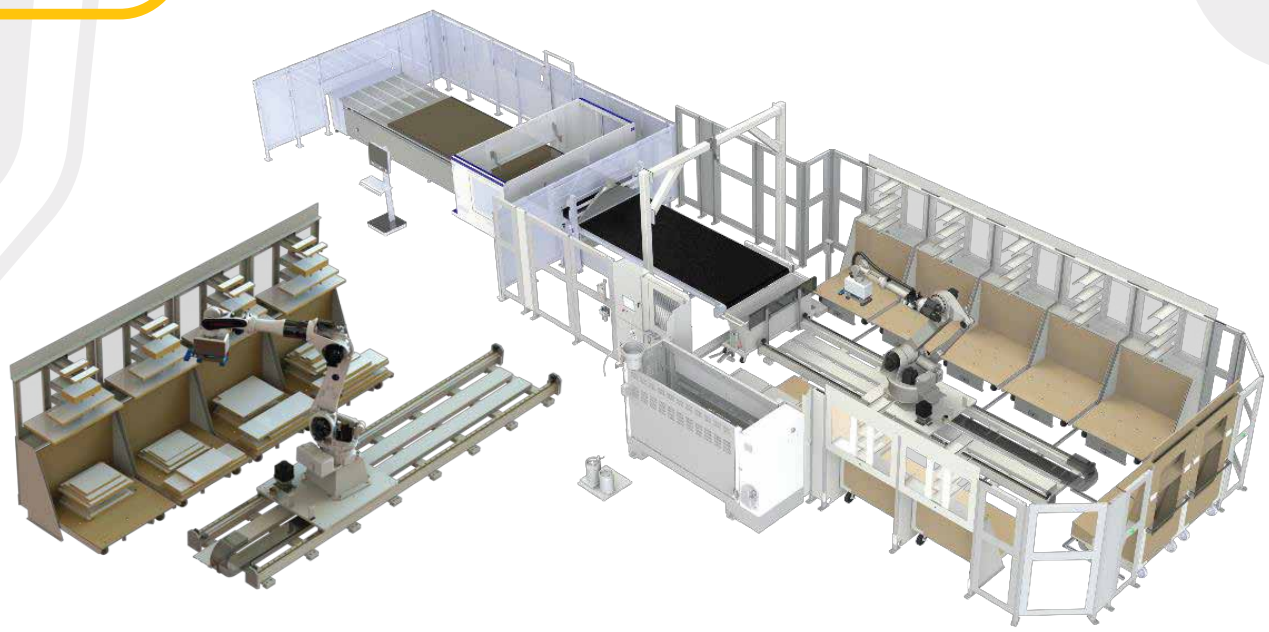
EDGE Automation

CabSort™ *plus*

Cabinet Automation System



A complete CNC unload, drill, dowel and cabinet kitting system designed to keep every cabinet box together in order and your team focused on assembly — not chasing parts.

The **CabSort™** system by Edge Automation is a robotic CNC unloading and sorting solution designed for woodworking applications. By automating CNC offloading, drill/dowelling, and part sorting. The system aims to **increase production efficiency, minimize material waste, and reduce operator labour**

What it Does

- Performs the CabSort™ Max workflow (unload + drill/dowel + sorting).
- Adds cabinet box kitting so each cabinet's panels are staged together in build sequence.
- Supports smoother assembly flow by reducing decision-making, keeping all panels required for one cabinet box together.

Best For

- Shops ready to move from "sorting" to sequenced kitting.
- Teams building multi-cabinet orders where staging and assembly speed matter.
- Manufacturers looking to reduce WIP confusion and improve order completion flow.

Key Capabilities

- Includes all Max capabilities + cabinet box kitting.
- Panels stored on shelves above carts until all panels for a cabinet box are received.
- Panels are restacked onto carts as a kit, in order of completion.
- Kits are created based on order and cabinet box.
- **Result:** clearer staging, faster assembly handoff, and more predictable production flow.

Powering Productivity Through Innovation

CabSort™ plus

Specifications

Max Horizontal stack height on carts	36″
Cart count	9 carts
Max panel throughput	Up to 960 panels
Overall dimensions	48″ x 52″
Max panel size	48" x 48"
Min panel size	3" x 8"
Stack type — Horizontal	Variable (multi position)
Max vertical panels	40 (within stability rule)
Max panel thickness	1" (~25 mm)
Max panel length	44" x 96" (smooth panel only)
Max panel width	44" x 48"
Stack type — Vertical	Center stacked (single position)

Stacking

- Panels stored on shelves above carts until all panels for a cabinet box are received.
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- Kits are created based on order and cabinet box.
- **Result:** clearer staging, faster assembly handoff, and more predictable production flow.

- **Intelligent Sorting**
  The system utilizes an overhead vision system and an intelligent end-of-arm tool to identify, pick, and precisely process panels.
- **Sorting Flexibility**
  Sorts panels by family, kitchen/job, size, or edge code using conveyors, horizontal and vertical carts.
- **Cabinet Box Kitting**

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Operating Modes

- **Automatic:** Populates carts/conveyors based on predefined rules.
- **User Entry:** Allows operators to define sorting locations via an HMI.
- **Hybrid:** Combines automatic population with user-defined parameters for high-volume panels.
- **Panel Mating:** Defines specific panels (e.g., gables, tops/bottoms) to be mated before stacking to facilitate downstream assembly.

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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