



ICAM INDUSTRIAL
INTELLIGENT SPACE SOLUTIONS

THE AUTOMATIC VERTICAL STORAGE SYSTEM FOR LONG MATERIALS AND VERSATILE LOADS

Whether storing bars, profiles, semi-finished products, molds or accessories, MAXI^L ensures maximum material protection while minimizing floor footprint. Fully integrable into production flows, it enhances traceability, safety and accessibility across a wide range of industrial environments.

 **MAXI**^L

A ROBUST STORAGE SYSTEM FOR MULTIPLE APPLICATIONS

MAXI[®] is ICAM's automatic vertical storage system designed to manage **long, heavy and bulky materials**, offering extensive configurability.

It is suitable for storing aluminum, steel and PVC profiles, pipes, cores, seals, baskets, bundles of long materials and semi-finished products **up to 7,100 mm** in length, as well as molds, tooling, accessories and high-value components.

A single solution designed to adapt to different industries, ensuring structural strength and long-term reliability.



Storage of profiles



Storage of tubes



Storage of accessories



Storage of molds



A STRUCTURE ENGINEERED TO LAST AND EVOLVE

MAXI^L consists of **two opposing storage towers** housing the drawers on internal guides.

At the center, an automatic lift handles the transfer of drawers to the loading and unloading station.

The structure is self-supporting, **built in steel**, and designed for both indoor and outdoor installations, with the possibility of future expansion.

MAXI^L can be **expanded vertically through modular extensions**, turning the system into a long-term investment that supports the company's growth



■ TECHNICAL SPECIFICATIONS

Drawer

Max. drawer load bearing capacity	1,000 / 3,000 kg
Internal usable width	3,500 / 4,100 / 6,100 / 6,600 / 7,100 mm
Internal usable depth	820 ÷ 1,520 mm
Drawer edge height	200 ÷ 500 * mm

Storage system

Max bearing capacity	80 t
Width	4,173 / 7,773 mm
Depth	3,154 ÷ 5,254 mm
Height	4,000 ÷ 15,000 mm
Module height pitch	500 mm
Working temperature	0 ÷ 40°C
Relative humidity	50 ÷ 85%**

* The 500 mm height is not compatible with ejectors.

** On request, for specific requirements, the machine can be equipped with components designed to operate beyond the stated climatic limits

MAIN APPLICATIONS

- Windows, doors and curtain wall systems
- Metal fabrication, machining and general engineering
- Automotive, shipbuilding and construction
- Furniture, kitchen manufacturing and design
- Lighting and HVAC
- Photovoltaic and renewable energy
- Plumbing, pipe installation and ducting
- Industrial logistics, subcontract manufacturing and distribution

Open-base drawers



Solid-base drawer



MAXIMUM CONFIGURABILITY: DESIGNED TO ADAPT, INTEGRATE AND EXPAND

MAXI^L is designed to integrate seamlessly into any production environment, including complex industrial layouts.

The structure can be expanded vertically through 500 mm modular extensions, supporting growing storage capacity and evolving operational needs.

Configurable access on all four sides – including **opposite and multi-level configurations** – enables efficient service to operators, automated production lines and robotic systems.

Suitable for indoor and outdoor installation, MAXI^L can be configured as a standalone unit, in-line, or in parallel.



LOAD AND UNLOAD STATIONS FOR EVERY MATERIAL FLOW

MAXI^L can be equipped with different types of load/unload stations, depending on internal material flows and the required level of automation

Fixed load/unload station: front and/or rear configuration. A simple and reliable solution for material loading and unloading operations

Motorized shuttle: reduces the loading area footprint and transfers trays in multiple directions, enabling easy integration with different machines.

Automatic load ejectors: facilitate material loading into trays when using forklift trucks.

The combination of these devices increases overall system efficiency, allowing layouts to be tailored to specific operational requirements.



MAXI^L integrates naturally into production workflows, **supporting just-in-time logic** and directly supplying:

- • Cutting centers and CNC machines
- • Presses and punching machines
- • Assembly lines
- • Anthropomorphic and Cartesian robots

ICON: THE DIGITAL INTELLIGENCE DRIVING MAXI^L

ICON is ICAM's proprietary software developed for advanced management of its automated storage systems.

Web-based, intuitive and scalable, it provides full control over system functions and ensures seamless **integration with WMS, ERP and other enterprise systems.**

Additionally, ICON enables floor area mapping and **the management of stock stored outside the automated storage system.**



MAIN FEATURES

- Real-time monitoring of drawers and load/unload stations
- Automated loading/unloading missions
- Traceability by item code, batch and order
- User management and authorization levels
- Operation history and system logs
- Automatic backup and integrated security





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