



ICAM
INTELLIGENT SPACE SOLUTIONS

THE STACKER CRANE FOR THE HIGH-DENSITY STORAGE OF LONG MATERIALS

MAXI^{STC} is ICAM's stacker crane engineered for the automated storage and handling of long and heavy materials such as profiles, bars, tubes and industrial extrusions.

 **MAXI** **STC**

MAXI **STC** **MAXIMIZING LONG GOODS STORAGE EFFICIENCY**

MAXI^{STC} is an automated storage and retrieval system (AS/RS) based on a stacker crane, designed for the intensive handling of long goods up to 7 meters in industrial environments characterized by high volumes and a large number of load units, where manual processes typically become a bottleneck.

MAXI^{STC} is the right choice **starting from 400 load units and above** — where organization, operational continuity and service speed become critical to overall system efficiency.

- **400+ load units** managed
- **7 meters** max material length
- **2 LUs** handled simultaneously
- **100%** automated cycle

The structure leverages both the vertical and longitudinal dimensions of the building, significantly reducing floor footprint compared to traditional storage systems.



MAXI^{STC} HOW IT WORKS

At the core of MAXI^{STC} is the stacker crane, operating inside a storage aisle between metal racking organized in slots. It moves simultaneously along the horizontal axis (X) for travel along the system and the vertical axis (Z) for positioning across storage levels. Each storage and retrieval cycle is fully automated, ensuring continuous operations without manual intervention inside the system.

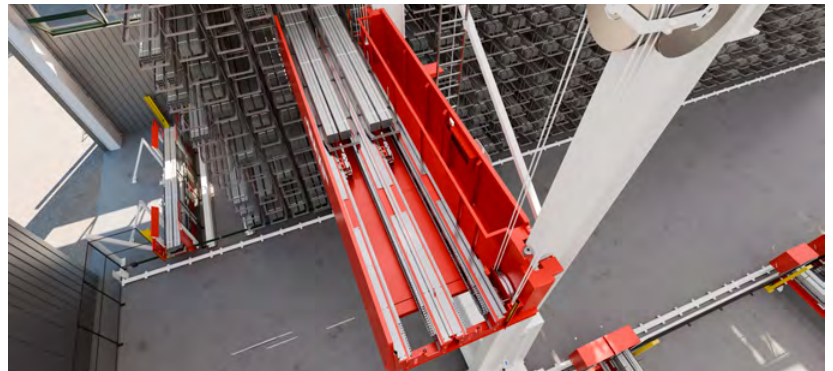
» DEDICATED LOAD UNITS FOR LONG GOODS

MAXI^{STC} handles steel load units (LU), configurable according to the stored material. Shaped ends enable smooth and precise insertion into storage slots, maximum stability during handling, surface protection — essential for aluminium profiles and finish-sensitive materials.



» AUTOMATIC SWAP AT THE OPERATING STATIONS

When serving the loading/unloading stations, the stacker crane performs a **combined exchange in a single cycle**: retrieves the LU with processed material and deposits a new LU with material to be machined. Return and delivery are combined into a single movement, eliminating empty runs, reducing cycle times and increasing system throughput.



» HIGH SAFETY STANDARDS

The stacker crane operating area is a protected and controlled zone. Perimeter guarding, controlled access points and emergency stop systems minimize operator exposure to the handling of long, heavy loads — improving workplace safety and reducing operational risks.





IS THE **RIGHT CHOICE WHEN**

- You manage **400+ load units** of long materials (profiles, bars, tubes, beams, extrusions)
- Floor space is limited
- Manual storage and retrieval times are a bottleneck for production
- You require **full traceability** by code, batch and order for each load unit



KEY BENEFITS

- Doors & windows
- Building & construction
- Furniture manufacturing
- Mechanical engineering and metalworking
- Distribution & logistics

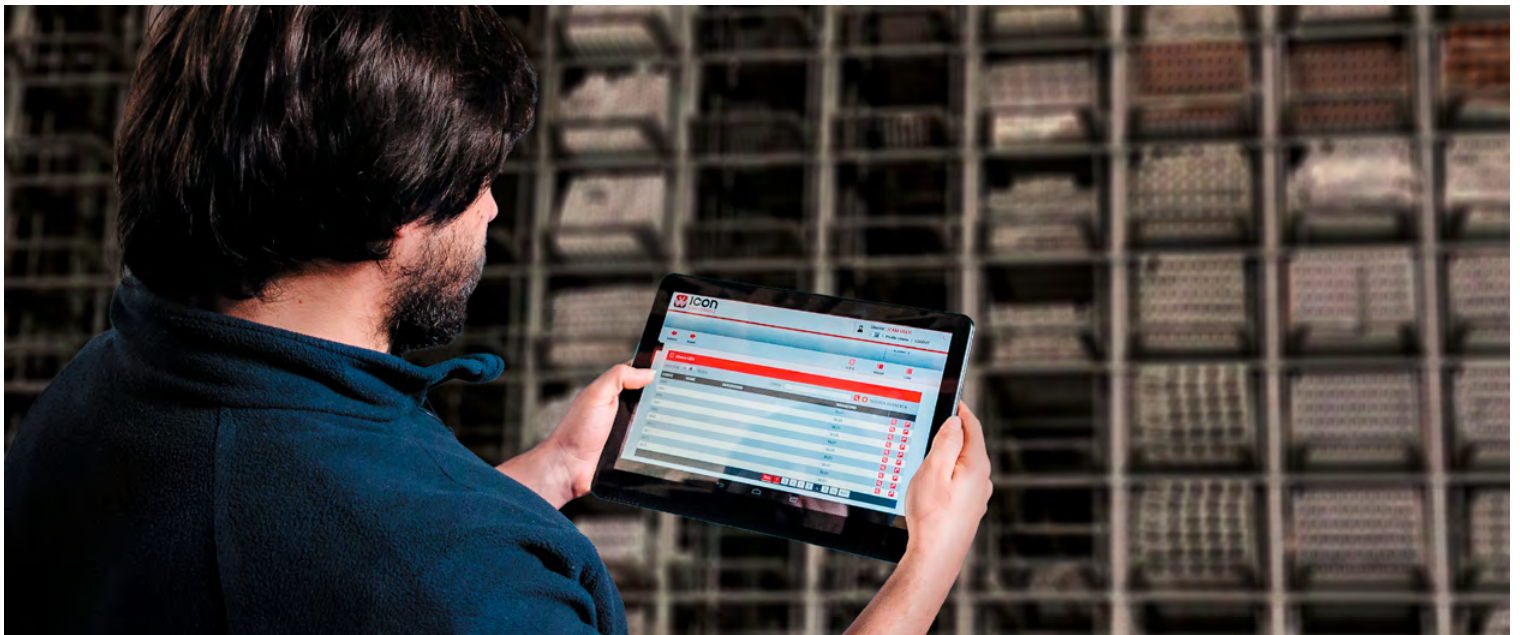
ICON: THE DIGITAL INTELLIGENCE DRIVING MAXI^{STC}



ICON is ICAM's proprietary software developed for advanced management of its automated storage systems range. Web-based, intuitive and scalable, it enables full control of system functions and seamless integration with WMS, ERP and other enterprise systems. Additionally, ICON enables **floor area mapping**, managing stock stored outside the automated storage system to provide a complete overview of total inventory.

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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