

74E BOX

AUTOMATED VERTICAL WAREHOUSE



ORGANISED



CONTROL



SIMPLE



TRACEABLE



SPEED



MODULAR



SAVING

SPECIFIC FOR TOOL MANAGEMENT

HOW "THE BOX" CAME ABOUT

In 2017 SAU S.p.A. was facing various issues around material storage and, consequently, the management of its production facility in Polinago, operating since 1982. We began thinking about how to make our workers' jobs easier, exploit room height for storage, manage and control resources better and, ultimately, speed up operations. The desire to design a "simple and useful" vertical warehouse brought together SAU S.p.A. and AGS Automation in a partnership that saw AGS join SAU Group in early 2019. After a period of in-depth study and analysis, we created software capable of easily and intuitively managing individual picks and contingent operations in a precise, smart way.

After installing the first two vertical warehouses at SAU's Polinago production facility in 2018, we saw just how effective and dynamic an impact it had on our work in terms of costs, management and organisation. After this initial experience, we decided to "share" our vertical warehouse idea with other commercial and production departments, enabling companies across a broad range of sectors to store small and medium sized items regardless of weight.

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That's how the idea for THE BOX vertical warehouse came about.

SAU headquarters (Polinago)



AGS headquarters (Castellarano)





THE BOX

The compact automated vertical warehouse. Fully modular and expandable, by adding modules to the sides or top.

EFFICIENT, ERGONOMIC AND SAFE



Dimensions:
W 1600 x H 2200 x D 1200 (mm)



Weight:
850 kg



Maximum number of drawers:
20



Maximum number of sectors:
480 dynamic individual locations



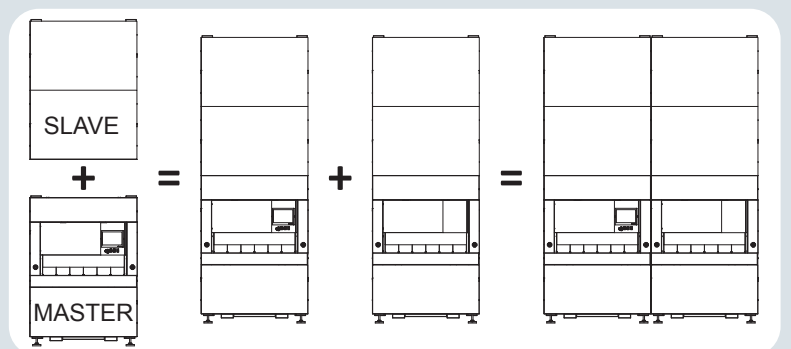
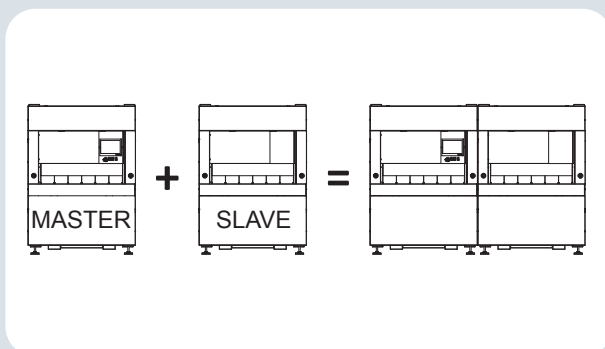
Load limit:
over 1600 Kg



Footprint:
W 1600 x D 1000 < 2 mt²

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MODULAR OVER TIME



Double the height and triple the advantages with THE BOX DOUBLE!



Dimensions:
W 1600 x H 4200 x D 1200 (mm)



Weight:
1250 kg



Maximum number of drawers:
70



Maximum number of sectors:
1680 dynamic individual locations



Load limit:
over 5700 Kg



Footprint:
W 1600 x D 1000 < 2 mt²

Exploits room height to make the most of the space available

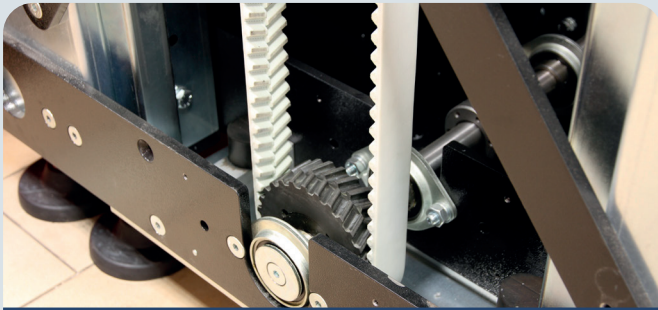


HARDWARE FEATURES

The ideal solution in any setting for storing any type of small and medium sized product regardless of weight.



15.6" touch screen user interface



Self-centring reinforced belt



Robust construction

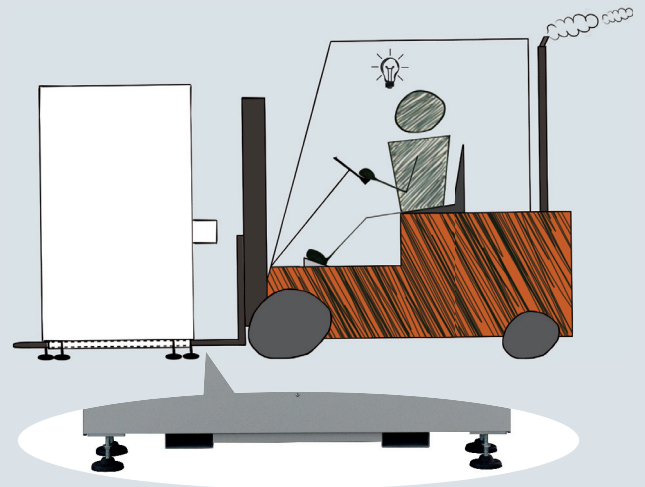


Mechanical and electrical components designed to guarantee resistance and durability

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Designed to be handled by pallet truck/fork-lift with roll over protection



MAXIMUM ERGONOMICS



The warehouse's ergonomics encourages proper posture.



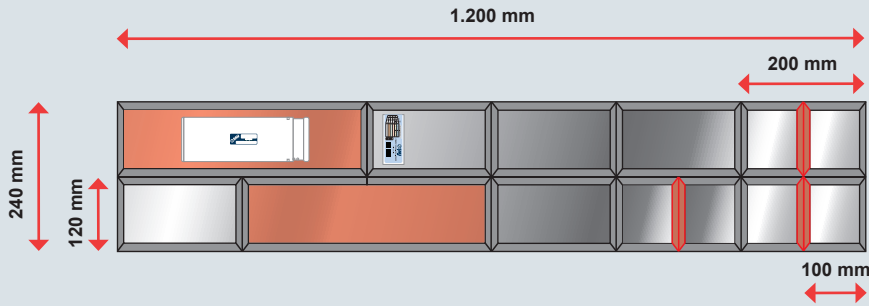
Material available for pick-up in a few seconds :
(max 16 seconds)

IMPROVES PRECISION

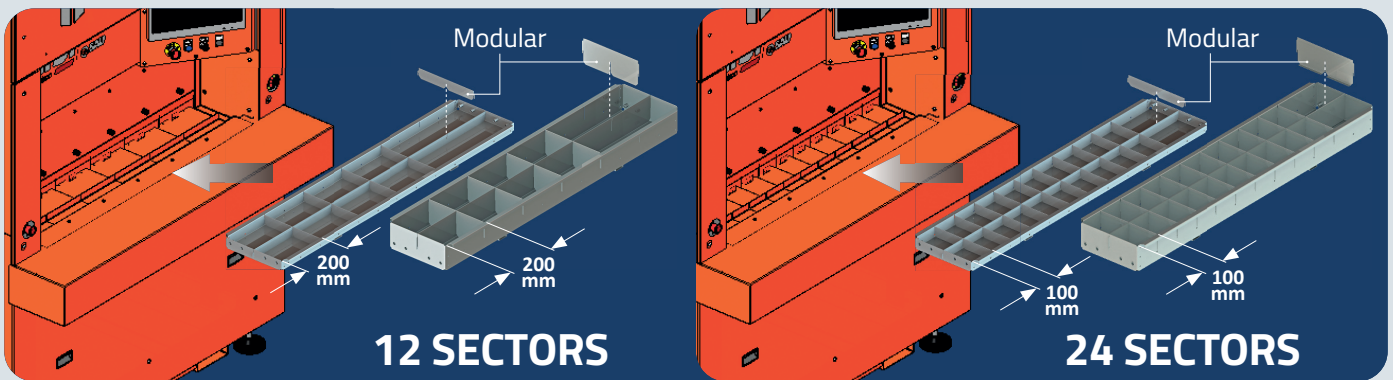
Each drawer can be divided into 24 handy ergonomic sectors. The item is automatically made available when the corresponding sector is opened. While items stored in adjacent locations are inaccessible.



Sector opening and accessibility



Selectable drawer depth of 40 mm and/or 100 mm. Modular drawers adapt to the dimensions of the material being stored.



Drawer layout can be changed at any time by moving the metal dividers and redesigning the drawers on the system, using the simple graphical tool in the software. The standard picking bay is divided into 12 sectors (200mm x 120mm), while the optional 24-sector picking bay (100mm x 120mm) offers twice the number of sectors.



STANDARD BAY 12 SECTORS (200mm x 120mm)



"S"-TYPE BAY 24 SECTORS (100mm x 120mm)

SOFTWARE FEATURES

User friendly! Enables easy, immediate access to all machine functions. Guarantees ease of use even for non-specialised personnel.

- Creation and management of **unlimited users**.
- Creation of **unlimited tasks**.
- Creation of **infinite product families/types**.
- Creation of **product uses** for **customized analysis and reports**.
- Management of **item details**.
- **Software implementation**.
- **Low stock alert and product sorting** management.
- **Returnable item** management.
- **Resharpended item** management.
- **Product expired alert**.
- warehouse control for **fast inventory checking**.
- **Creation of a virtual warehouse** also for the management of items that are not stored within THE BOX".

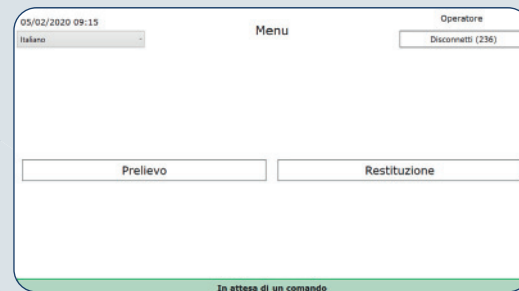
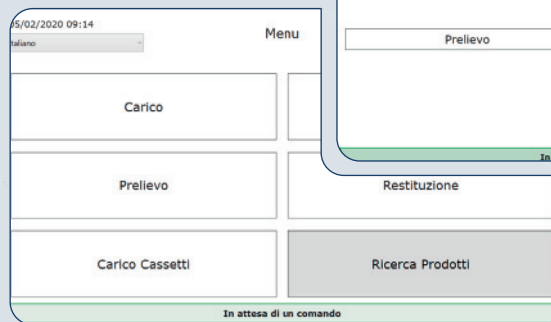
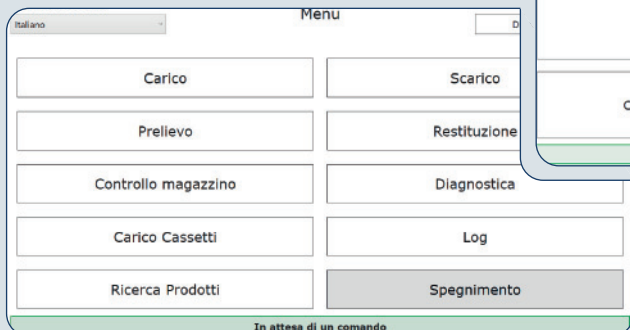
Machine/Drawers management and creation of virtual warehouse for managing items not located in THE BOX.

User friendly graphical tool

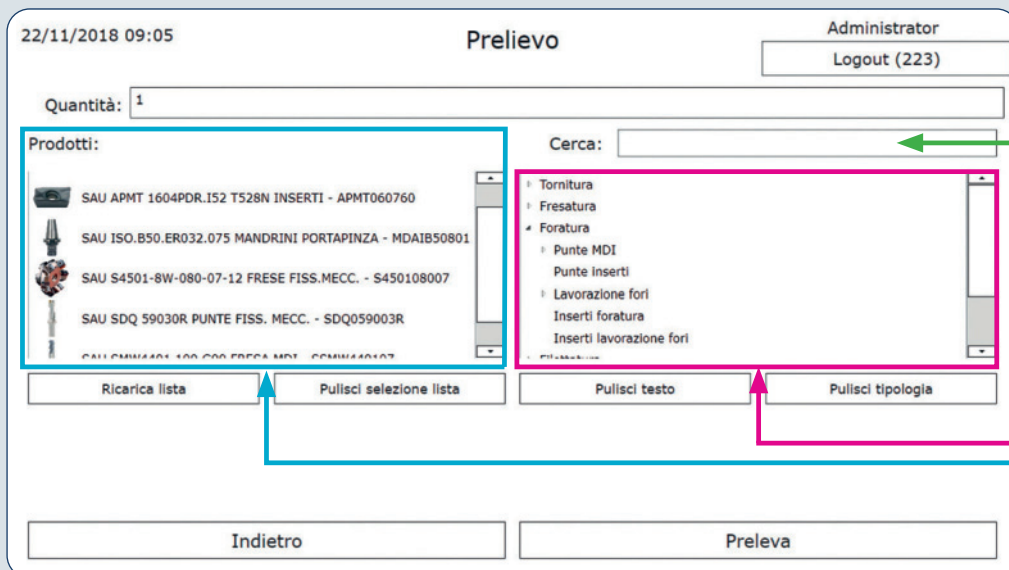
3 user levels, selectable

- Administrator
- Warehouse worker
- Operator

Intuitive controls



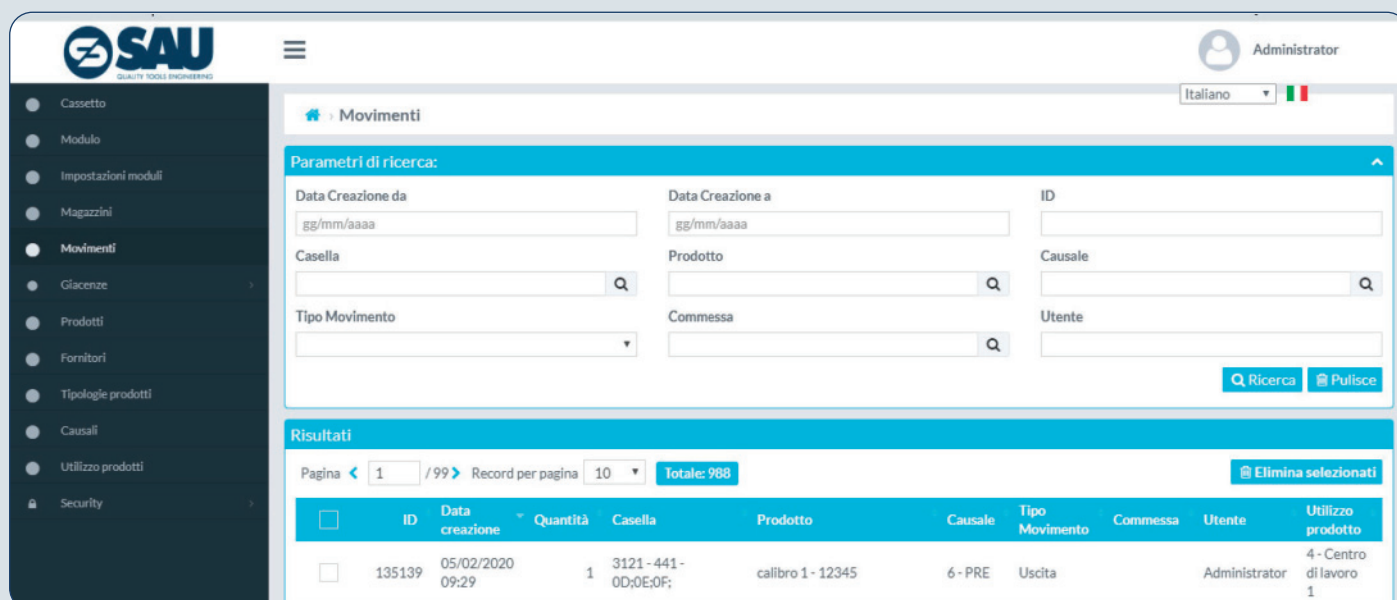
TASK-BASED FUNCTIONS CREATION OF UNLIMITED USERS



Easy to consult and search items on a single screen with different search methods (select from list, filter by type, search by entering code and/or description):

- Typing (even partial)
- List of families/types
- List with description and picture

YOUR STRENGTH? DATA. When, by whom and why an item was picked/returned with reports in XML/XLS format.



OPTIONAL

CUSTOMISE "THE BOX"

ACCESSORIES



BARCODE READER:
improves efficiency by cutting the time taken to enter complex codes.



PIECE COUNTING BALANCE:
counts the number of pieces based on unit weight. Ideal for counting small items more quickly.



CRADLES AND SUPPORTS:
we can create custom supports using 3D printing.



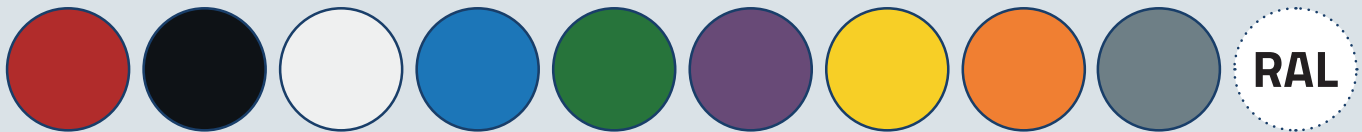
CAMERA:
video control of the movements carried out in the location.

24-SECTOR PICKING BAY

Ideal for doubling up the number of locations for storing small-sized items.

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CHOOSE YOUR RAL:



PAID SERVICES:

- Mass item data import for rapidly building an initial database.
- Software implementations
- Support packages and scheduled maintenance

OUR STRENGTHS:

WEIGHT

Store any type of product regardless of weight

ACCESSIBILITY

Minimum sector dimensions
100 x 120 x 40 mm

SPACE

Optimises reduced floor space, less than 2 m²,
by exploiting room height.

STOCK

Everything you need, when you need it and in the right
quantities with a constantly controlled inventory

CUT COSTS AND INCREASE PRODUCTIVITY

MAXIMUM MODULARITY

Drawers can be configured to store small and medium
sized items (up to 1200 x 100 x 240 mm).

HIGH PICKING SPEED

Max 16 seconds

ERROR-FREE PICKING

Solely the selected item is made available
to the user.

PRODUCT SOURCING AND TRACING

INCREASE SAFETY STANDARDS

FOURTH INDUSTRIAL REVOLUTION READY

THE BOX meets the SMART WORKING requirements of Industry 4.0.

Investing has never been so simple.



What our customers are saying about “THE BOX” ...

“We looked at a range of machines and the only one that fully met our requirements is THE BOX. Its software is simple yet comprehensive and its compact size has allowed us to exploit the height of our premises, optimising our floor space.”

“We used to have material spread out all over the workshop. With THE BOX we’ve managed to centralise, optimise our stock and cut excess purchases.”

“Our workers can pick consumables autonomously from THE BOX, cutting downtime. We’ve also noticed that excess product consumption is lower.”

“We’ve managed to avoid machine downtime caused by a lack of consumables as well as optimise our workers’ workload.”

“THE BOX.. Compact, Fast, Spacious.
It’s SMART!”

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