

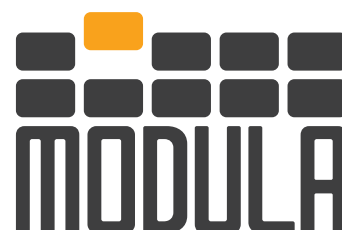


# Modula NEXT保險櫃

Think Vertical, Think Modula

新一代自動立體貨櫃

THE NEW GENERATION OF VLM



## 精準與效率的重新定義

精準交付，**每一次**都不負所托。

Modula NEXT是一款創新的自動化存儲解決方案，它將工業自動售貨機的所有精準和控制功能與垂直升降模塊 (VLM) 的空間節省和效率相結合。

當取料時，設備會檢索存儲該物品的特定托盤，並將其帶到符合人體工程學高度的取貨口。

與常見的垂直升降模塊不同，Modula NEXT的捲簾門系統只打開包含請求物品的庫位。

這確保了取貨和補貨操作超高的精準度。



## PRECISION AND EFFICIENCY REDEFINED

DELIVERING THE RIGHT PART TO THE RIGHT PERSON.  
**EVERY TIME.**

Modula Next is an **innovative automated storage solution**, that combines all the precision and control of **industrial vending machines with the space-saving and efficiency of Vertical Lift Modules (VLMs)**.

When an item is requested, the unit retrieves the specific tray where the item is stored and brings it to the **picking bay at an ergonomic height**.

Unlike conventional Vertical Lift Modules, Modula Next's **shuttering door system** only opens the compartment containing the requested item.

This ensures unmatched precision in picking and replenishment operations.



每次僅開啓一個庫位，單次僅取一種物料，實現100%精準揀選。

**100% PRECISE PICKING WITH ACCESS TO ONE COMPARTMENT, ONE PRODUCT AT A TIME**

## 為何選擇MODULA NEXT WHY CHOOSE MODULA NEXT



- **智能系統組合**

Modula NEXT結合了工業自動售貨機的精準度與垂直升降模塊 (VLM) 的容量。

- **創新設計**

配備滑動捲簾門，每次僅允許訪問特定隔間中的特定物品。

- **靈活性與定製化**

可動態調整的隔間，使其適用於各種工業存儲需求，適應不同尺寸的物品。

- **跨行業通用性**

適用於醫療、零售、航空航天、汽車、MRO (維護、維修與運行) 及任何需要安全防護或高價值物品的行業。

- **SMART SYSTEM COMBINATION**

Modula Next combines the precision of industrial vending machines with the capacity of Vertical Lift Modules (VLMs).

- **INNOVATIVE DESIGN**

Features sliding shutter doors, providing access only to a specific item, in an individual compartment at a time.

- **FLEXIBILITY AND CUSTOMIZATION**

Adjustable compartments on the fly make it ideal for various industrial storage needs, accommodating diverse item sizes.

- **VERSATILITY ACROSS INDUSTRIES**

Ideal for healthcare, retail, aerospace, automotive, MRO, and any industries handling sensitive or high-value items.



# 安全與空間優化選項 SAFETY & SPACE OPTIMIZATION

為您的產品和操作員提供安全保障，始終如一。  
SAFETY FOR YOUR PRODUCTS & OPERATORS. **ALWAYS.**

## 通過用戶識別保障安全 SAFETY THROUGH USER IDENTIFICATION

每個單元均設有密碼保護，僅允許授權操作員訪問。  
所有取貨操作和登錄記錄均可追蹤至具體托盤。

Every unit is password protected, allowing access only to authorized operators with a badge or access code.

All picking operations and logins are tracked even down to specific trays.

## 安全光柵 SAFETY LIGHT BARRIERS

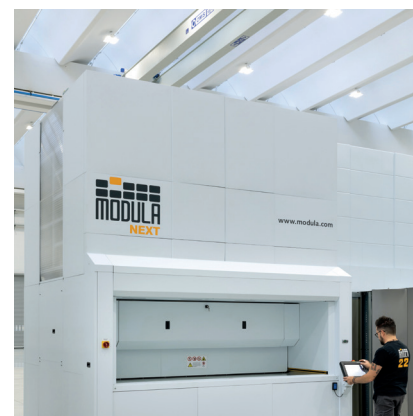
取貨口設有安全光柵，可檢測障礙物或操作員干擾。  
一旦檢測到，系統將立即停止所有動作，保護操作員和庫存安全。

The access opening features safety light barriers that detect obstacles or operator interference.  
Upon detection, the system instantly stops all movements, safeguarding both the operator and the inventory.

## 緊急停止按鈕 EMERGENCY STOP BUTTON

位於副操作面板上，操作員在緊急情況下可立即停止操作，  
確保對任何潛在危險的快速響應。

Positioned on the copilot panel, this button allows operators to instantly stop the operations in case of an emergency, ensuring quick response to any potential hazards.



**揀貨口範圍**  
100x100毫米至2,500x654毫米，  
可透過WMS軟件靈活定制

**PICKING WINDOW SIZE RANGE**  
from 100x100 mm to 2,500x654 mm,  
CUSTOMIZABLE THROUGH WMS SOFTWARE

# 可選件 OPTIONS

滿足任何操作需求 FOR ANY OPERATIONAL NEED



**亮燈揀選系統**  
Put to Light



**揀選車**  
Picking Cart



**揀選站**  
Picking Station



**托盤配件**  
Tray Accessories



**1D/2D條碼閱讀器指示燈**  
1D or 2D Barcode Reader



**EKS 閱讀器**  
EKS Reader



**RFID 閱讀器**  
RFID Reader



**結束取貨按鈕**  
End Picking Button



**揀選完成踏板**  
Foot Bar Task Complete



**條碼閱讀器**  
Barcode Reader



**標籤打印機**  
Label Printer



**工業電子稱**  
Counting Scale

## 跨行業通用性

安全、精準與靈活性，滿足不同行業需求。

Modula NEXT適用於需要精準庫存控制和快速訪問的行業。。

其通用性和處理各種物品類型的能力使其適用於：

- **製造業**  
用於存儲和管理工具、零件和關鍵組件。
- **醫療行業**  
用於安全地分發醫療用品和藥品。
- **處理高價值物品的行業**  
適用於需要高精準度的或高價值庫存部門。
- **航空航天與汽車行業**  
用於高效存儲專業且昂貴的工具和組件。
- **零售業**  
用於後端存儲，管理各種零售產品。
- **MRO (維護、維修與運行)**  
用於存儲典型的MRO用品，如鑽頭、銑刀、粘合劑和緊固件。



製藥與生物醫學PHARMACEUTICAL AND BIOMEDICAL

## VERSATILITY ACROSS INDUSTRIES

**SECURITY, PRECISION AND FLEXIBILITY.  
FOR DIVERSE SECTOR NEEDS.**

Modula Next is ideal for **industries requiring precise inventory control and quick access.**

Its versatility and capacity to handle various item types make it suitable for:

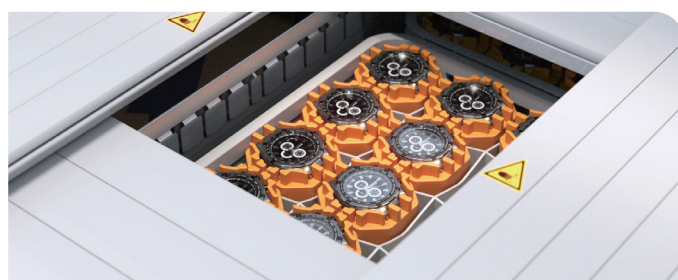
- **MANUFACTURING**  
For storing and managing tools, parts and essential components.
- **HEALTHCARE**  
Ideal for dispensing medical supplies and pharmaceuticals securely.
- **INDUSTRIES WITH SENSITIVE OR HIGH-VALUE ITEMS:**  
Perfect for sectors dealing with sensitive or costly inventory, where precision is a must.
- **AEROSPACE & AUTOMOTIVE**  
For efficiently storing specialized and expensive tools and components.
- **RETAIL**  
Useful in back-end storage for managing a variety of retail products.
- **MRO (MAINTENANCE & REPAIR)**  
For storing typical MRO supplies such as drill bits, end mills, adhesives, and fasteners.



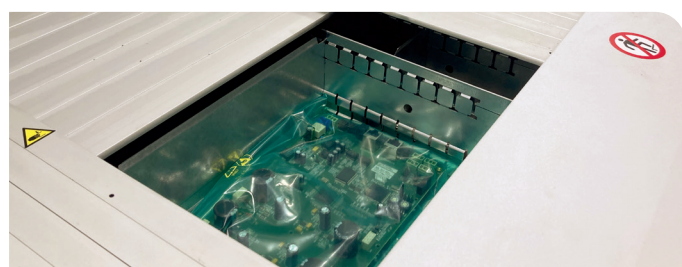
汽車AUTOMOTIVE



航空航天與國防AEROSPACE & DEFENCE



高價值物品HIGH-VALUE ITEMS



電子ELECTRONICS



MRO (維護、維修與運行) MRO (MAINTENANCE & REPAIR)

# MODULA NEXT管理寄售庫存的專家

## MODULA NEXT FOR MANAGING CONSIGNMENT INVENTORY



### 使用MODULA NEXT管理您的寄售庫存

Modula NEXT是寄售庫存場景中的寶貴解決方案。

對於供應商而言，它轉化為高效的寄售庫存服務，增強其價值主張。

對於客戶而言，他們則受益於在正確的時間擁有正確的工具，無需承擔過多呆滯物料的成本風險。

### MANAGING CONSIGNMENT INVENTORY WITH MODULA NEXT

Modula Next is a valuable solution for consignment inventory scenarios.

For suppliers, it translates into efficient consignment inventory service, enhancing their value proposition.

Clients, on the other hand, benefit from having the right tools at the right time, without the overhead of large inventories.



#### 對供應商的主要優勢 KEY BENEFITS FOR THE SUPPLIER

##### 實時庫存管理 REAL-TIME INVENTORY MANAGEMENT

WMS集成提供對客戶現場物料的實時監控，確保精準的庫存控制。

WMS integration provides immediate insight into client-site part levels, ensuring accurate inventory control.

##### 訪問控制 CONTROLLED ACCESS

對單元和特定物品的訪問受限，防止因庫存處理不當而產生的成本，從而對供應商產生直接影響。

Restricted access to the unit and specific items, prevents the cost of inventory mishandling that directly impacts the supplier.

##### 供應管理靈活性 FLEXIBILITY IN SUPPLY MANAGEMENT

供應商可根據消耗模式和客戶需求輕鬆調整存儲物品的類型和數量。

Suppliers can easily adjust the type and quantity of items stored based on consumption patterns and customer requirements.

##### 成本高效的庫存 COST-EFFICIENT INVENTORY

供應商保留所有權直至客戶使用，使生產與需求保持一致，降低庫存過剩和過度生產的風險。

Suppliers retain ownership until customer use, aligning production with demand, to reduce overstocking and overproduction risks.



#### 對客戶的主要優勢 KEY BENEFITS FOR THE CLIENT

##### 按需部件訪問 ON-DEMAND PART ACCESS

關鍵零部件可從 Modula Next 系統按需獲取，從而最大限度地減少停工風險。

Essential parts are available on-demand from Modula Next, minimizing operational interruptions.

##### 簡化的維護管理 STREAMLINED MAINTENANCE MANAGEMENT

幫助客戶有效管理維護實時數據，避免短缺和緊急訂單。

Real-time data allows clients to effectively manage maintenance, avoiding shortages and urgent orders.

##### 預算友好的維護 BUDGET-FRIENDLY MAINTENANCE

供應商可根據消耗模式和客戶需求輕鬆調整存儲物品的類型和數量。

The pay-per-use model for parts reduces the need for extensive inventory, making maintenance more cost-effective.

##### 運營生產力 OPERATIONAL PRODUCTIVITY

精準的庫存管理有助於提升維保工作，並提高運營效率。

Precise inventory results in optimized maintenance activities and improved operational efficiency.



# MODULA NEXT用于存储个人防护装备和分发成套组件

## MODULA NEXT FOR STORING PERSONAL PROTECTIVE EQUIPMENT AND DISPENSING KITTED COMPONENTS

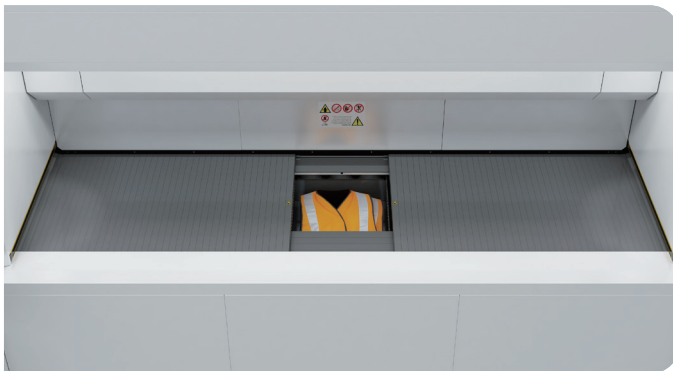
### 存储个人防护装备 STORING PERSONAL PROTECTIVE EQUIPMENT

Modula NEXT是管理个人防护装备 (PPE) 的完美解决方案。

Modula Next is a perfect solution for the management of Personal Protective Equipment (PPE).

通过将所有PPE整合到一个可访问的位置, 确保必要的安全装备可用、妥善管理和保护, 并符合安全法规。。

By consolidating all PPE into one accessible location, it ensures that essential safety gear is available, properly managed and secured, and compliant with safety regulations.



#### 主要优势 KEY BENEFITS

##### 集中式PPE存储 CENTRALIZED PPE STORAGE

确保在一个位置快速访问必要的安全装备。

Ensures quick access to essential safety gear in one location.

##### PPE质量维护 PPE QUALITY MAINTENANCE

通过防止损坏和污染, 延长PPE使用寿命。

Extends PPE lifespan by protecting against damage and contamination.

##### 实时PPE追踪 REAL-TIME PPE TRACKING

监控PPE数量和状况, 以便主动补货和维护。

Monitoring PPE quantities and conditions, for proactive replenishment and maintenance.

##### 精准与安全 PRECISION AND SAFETY

每次仅限访问一个物品, 并通过用户认证设备保护PPE。

Limits access to one item at a time and secures PPE with user authentication devices.

### 分发成套组件 DISPENSING KITTED COMPONENTS

Modula NEXT显著改善了成套组件的管理。与垂直升降模块不同, 它增加了一层安全保护, 每次仅允许访问一个库位。

Modula Next significantly improves the management of kits. Unlike VLMs, it adds a layer of security with access to only one compartment at a time.

这确保了正确成套组件的选取, 对于避免运营延迟和停机至关重要。

This ensures the correct kit is picked, which is crucial to avoiding operational delays and downtime.



#### 主要优势 KEY BENEFITS

##### 预组装成套组件 PRE-ASSEMBLED KITS

存储和分发预组装的成套组件, 包含所有必要的工具和零件。

Stores and dispenses pre-assembled kits, with all necessary tools and parts.

##### 成套效率 KITTING EFFICIENCY

通过消除工人收集单个物品的需求, 提高效率。

Enhances efficiency, by eliminating the need for workers to collect individual items.

##### 可配置隔间 CONFIGURABLE COMPARTMENTS

可调整的隔间以适应各种尺寸的成套组件或物品。

Adjustable compartments to fit various sizes of kits or items.

##### 库存优化 INVENTORY OPTIMIZATION

减少放错位置的风险并防止短缺。

Reduces misplacement risks and prevents shortages.

## 技術規格 TECHNICAL FEATURES



各型號最大托盤  
最大載重  
可達500公斤  
MAXIMUM  
CAPACITY FOR ALL  
TRAYS:  
UP TO 500 KG  
PER TRAYS



COPILLOT  
工業控制枱:  
10.4英寸觸摸屏  
COPILLOT  
INDUSTRIAL  
OPERATOR  
CONSOLE:  
10.4 INCH  
TOUCH SCREEN



MODULA WMS  
管理軟件:  
一切盡在掌握  
MODULA WMS  
SOFTWARE:  
TO HAVE  
EVERYTHING  
UNDER  
CONTROL



操作員安全性:  
符合人體工程學  
且安全  
SAFETY FOR  
OPERATORS:  
ERGONOMIC  
AND SAFE

托盤寬度 Trays width (mm)	托盤深度 Trays depth (mm)	可存儲物品最大高度 Maximum height stockable material (mm)	可用托盤側高 Side heights available (mm)	每個托盤淨載重量 Net capacity per tray max. (kg)	設備佔地尺寸 Size of the design W x D (mm)	揀選口尺寸最小/最大 Size picking window min./max. (mm)
1,900 2,500	654	245	70 120 145 170 195 220 245	500	2,336 x 2,986 2,936 x 2,986	100 x 100 1,900 x 654 100 x 100 2,500 x 654

## MODULA

## 倉庫管理系統 WAREHOUSE MANAGEMENT SYSTEM

為您的企業提供全面的端到端WMS解決方案

A COMPLETE END-TO-END WMS SOLUTION FOR YOUR BUSINESS

Modula倉庫管理系統 (WMS) 是一款全面的庫存管理軟件，旨在操作Modula的自動化存儲和檢索解決方案，或作為傳統倉庫（手動區域）的獨立軟件。

作為市場上最直觀和先進的軟件解決方案之一，Modula WMS與幾乎所有DMS和ERP系統無縫接口，使接收、取貨和存放產品等流程更快、更準確。

Modula Warehouse Management System (WMS) is a complete inventory management software, designed to operate Modula's automated storage and retrieval solutions or as a stand-alone software in traditional warehouses (manual areas).

As one of the most intuitive and advanced software solutions on the market, Modula WMS seamlessly interfaces with almost all DMS and ERP systems, making processes, such as receiving, picking, and putting away products, faster and more accurate.



# MODULA WORLD



Modula 在全球5個大洲、50多個國家均有經銷商和分公司

Modula is present in 5 continents with dealers and branches located in over 50 countries



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