



Modula

for the automotive sector

The intelligent solution for automotive dealerships & manufacturing



RECOVER SPACE



INCREASE SECURITY



SAVE TIME



IMPROVE EFFICIENCY

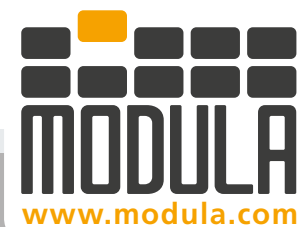


REDUCE RISKS



BOOST INVENTORY MANAGEMENT

OUR PRODUCTS ARE
★ MADE IN USA ★
 From US & Imported Components



What can you do with a vertical warehouse in the automotive industry?

Optimized parts and material stock management for automotive dealerships and manufacturing

With Modula automatic vertical warehouses you can:

- Manage inventory in your dealership's parts department, service center and manufacturing facilities, saving up to 90% of floor space compared to traditional storage systems

- Store parts in one physical location, where everything is tracked so knowing your stock levels or doing reorders is quick and easy
- Improve efficiency and achieve higher overall profit margins

You can stock any kind of product in an automatic vertical warehouse; from spare parts to accessories, from tools to mechanical components, from nuts and bolts all the way to very large/heavy items such as motors. Everything is stored ergonomically and within easy reach of your operators, without racks, shelves, mezzanines or ladders. Modula offers various types of vertical warehouses, with different sizes, heights, volumes, options, bay types and tray configurations.

IMPROVES EFFICIENCY

Fulfill orders efficiently without picking errors

INCREASES SECURITY

Choose storage that keeps your spare parts secure

REDUCES RISKS

No more climbing stairs, mezzanines or footstools to retrieve your goods

SAVES TIME

Locate the parts and products you need instantly

RECOVERS SPACE

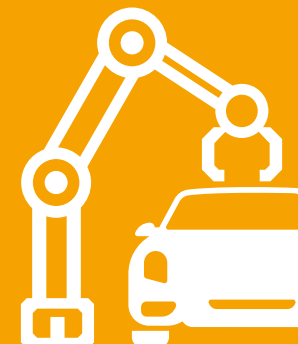
Drastically reduce the space taken up in your parts and production departments

MANAGES YOUR INVENTORY

Control stock levels and inventory movements with just one click



Automotive Manufacturer



Easy integration into robots & production lines for manufacturing

Vertical warehouses can also integrate perfectly into manufacturing robots and production lines. They actually contribute to achieving high levels of automation particularly in combination with robotic systems.

Possible uses

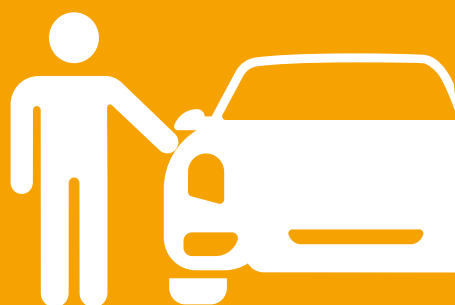
Buffer storage for parts or components needing to be stored for a certain amount of time before being moved on to subsequent production phases. Once stored, the items are then retrieved by operators or by **anthropomorphous robots which place them back into the production line.**

Emergency buffer storage: should a production phase upstream of the Modula come to a halt, materials are pulled directly from the warehouse to keep the production process flowing. If the problem is downstream, what has been produced so far can be stored and the Modula system gets filled with semi-finished products.

Dual front and rear loading with opposed bays: logistics operators load ready materials on one side and assembly or production technicians unload them from the opposed bay.



Automotive Dealerships



Quick turnaround with all parts in a small footprint

What volume of orders can your parts department generate? How important is throughput when locating components? An efficient parts department definitely increases performance and profitability in your dealership! With Modula units, parts are stored in a single clean, secure and easy-to-access location.

Modula's software WMS allows you to manage your inventory in real-time and keep track of your low stock items so you can best manage your reorders.

With a Modula system, you can get rid of dozens of shelving & mezzanines and store the same number of parts in a footprint about the same as a parking space.

The space you will save can be put to better uses...

- **A bigger service department**
- **A waiting area**
- **A new office or something else....**



Automotive Dealerships



Your parts within easy reach and a 100% safe working area

A Modula warehouse allows you to maximize your productivity and ergonomics by bringing parts to the operator within easy reach.

All storage solutions are designed to improve workplace ergonomics and safety.

No more bending, reaching, lifting heavy parts and walking up & down mezzanine steps or shelving aisles.

Safe and Ergonomic

With one click, the required product is automatically delivered to the operator, at the optimal working height. This considerably improves the picking operations and dramatically reduces the order lead time.



You can store common groups of parts used for service jobs in the same tray, further reducing the time it takes to obtain the necessary parts and complete repairs or carry out replacements more quickly.

Before Modula



Floor space recovery

INTELLIGENT STORAGE

Parts will no longer be limited to one fixed area and this will provide greater flexibility in your materials management

MONITORED ACCESS, MORE SECURITY

Direct control over who is accessing which trays and particular stock items

with Modula



up to **90%**

LESS PAPERWORK, MORE EFFICIENCY

Fewer paper picking lists, less printing, digital documentation

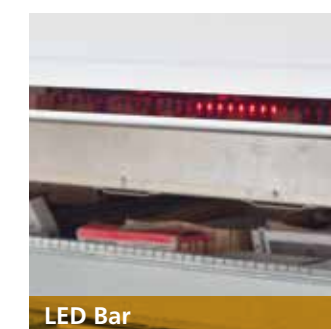
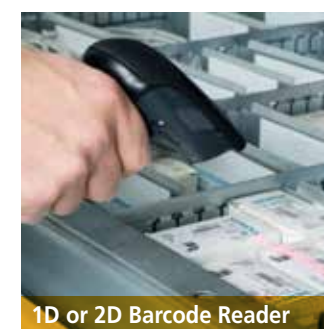
INVOICES AND INVENTORY WITH ONE CLICK

Extremely simple invoicing linked directly to picked orders, inventory and storage always under your control

Even more accurate picking

To make your picking activities even more accurate and reduce picking and refilling times, Modula offers visual aids and automatic barcode reader devices for completely wireless goods tracking.

With tools like our LED or alphanumeric bar or laser pointer, the product is pinpointed and the operator is guided straight to it.



Automotive Dealerships



The advantage of the Dealer Management System (DMS) integration

Modula units have the potential to interface to any Dealer Management Systems (DMS), allowing orders to be sent directly & automatically from the DMS to VLM units.

MODULA WMS-AUTOMOTIVE

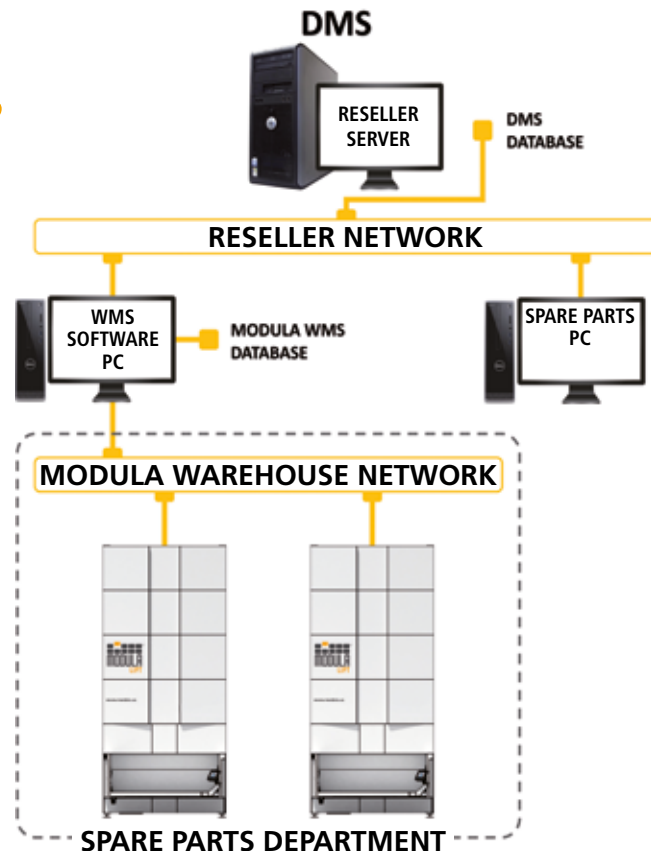
This module adds the following important software functionality in addition to the MODULA WMS – BASE software module:

- An automatic data exchange with a client's Dealer Management System (DMS)
- Current data exchange partners utilizing the Automotive Package include: CDK Global, Reynolds & Reynolds, Dealertrack Technologies and Karmak



DMS Integration Benefits

- Approved DMS interface provides seamless order processing in real-time.
- No code is modified or installed in your DMS, avoiding potential reliability, security and data integrity problems.
- DMS integration saves you time & increases accuracy when using Modula WMS software.
- Modula receives advance notification of changes to the DMS, providing uninterrupted performance and less chance of disruption to your business.



Modula AUTOMOTIVE



More than just accurate

analysis, it's even easier to identify an item's rotation factor. The result of combining a series of parameters will help determine each product's ideal location, significantly increasing efficiency during the picking phase.

Copilot Operator Console

The Copilot Console is a robust operator interface which includes a 10.5" touch screen color display and an extremely easy and user-friendly environment.

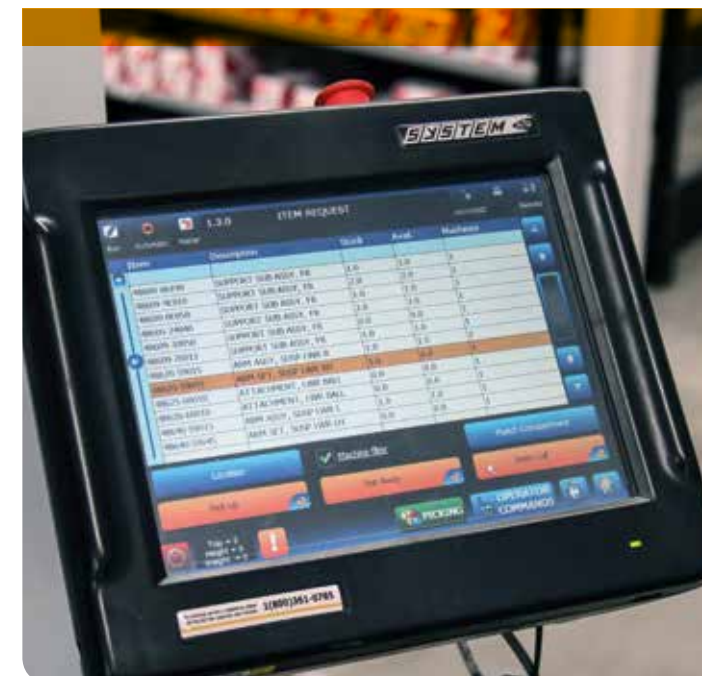
The graphic visualization of the tray layout shows the user clearly where and what to select, and displays all requested information relating to picking or refilling operations, such as item code, quantity, item notes, etc..

What is Modula WMS?



Modula WMS is a warehouse management software system which was created to operate the Modula units.

It interfaces easily with many DMS and ERP systems, making administration, invoicing, production orders, customer orders and picking operations much easier and quicker. Integration with these systems provides various advantages; immediate detection of any human errors, reduction in paperwork, and real-time control over warehouse operations and despatching. Using ABC cycle



Automotive sector customers

AUTOMOBILE MANUFACTURERS

APRILIA
AUDI
LAMBORGHINI
BMW
DAIMLER AG
DAIMLER MERCEDES-BENZ
DUCATI MOTOR
FERRARI
FIAT AUTOMOBILES
FIAT CHRYSLER AUTOMOBILES (FCA)
FIAT CHRYSLER AUTOMOBILES (FCA)
FIAT CHRYSLER AUTOMOBILES (FCA)
FORD MOTOR CO.
HARLEY DAVIDSON MOTOR CO.
HONDA
MASERATI
OPEL
PAGANI AUTOMOBILES
PEUGEOT CITROËN
PORSCHE
RENAULT
SUZUKI
VOLKSWAGEN

AUTOMOBILE DEALERS

AIRPORT MARINA FORD
AUDI BRUSSELS
AUTOVEGA VOLKSWAGEN
BMW GINION
DOWNTOWN AUTO GROUP (DAG)
EARNHARDT LEXUS OF PHOENIX
FABICK CATERPILLAR
GRENIER BMW
JAGUAR BRUSSELS EAST ZAVENTEM
OTTO'S BMW
PORSCHE - CENTRO ROMA NORD
SUBARU OF NEW ENGLAND - USA
WALSER BMW/MINI OF WICHITA
WENDLE NISSAN

AUTOMOTIVE COMPONENT SUPPLIERS

AMERICAN AXLE
AXLETECH INTERNATIONAL
BETA MOTOR
ROBERT BOSCH
BOSCH AUTOMOTIVE
BREMBO
CHARTER AUTOMOTIVE
CONTINENTAL
CONTITECH
CUMMIS
GKN DRIVELINE
GOODYEAR
GOODYEAR DUNLOP
HONEYWELL
MAGNA INTERNATIONAL
MICHELIN
MUBEA AUTOMOTIVE COMPONENTS
TENNECO AUTOMOTIVE

SPARE PARTS SUPPLIERS

AP LOGISTICS
ATHENA
AUDI
BALDUINA
BETA MOTOR
BRANDOLI CARROZZERIA
DAF
GRUPPO AUTORAMA CASTELNUOVO
LEMA
MIRAGLIO
PELLONI NISSAN
PIERBURG
ROCHLING
SGR SOCIETA GENERALI RICAMBI
SUPER RICAMBI

INDUSTRIAL VEHICLE MANUFACTURERS

BOMAG AMERICAS
CATERPILLAR
CNH INDUSTRIAL
JOHN DEERE
HAULMAX AUSTRALIA
IVECO
KOMATSU
MACK TRUCKS
NEW HOLLAND TRACTOR
SCANIA
VLI DIESEL

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

Modula Inc.

US HEADQUARTERS

90 Alfred A. Plourde Parkway
Lewiston, ME 04240 - USA
Tel. + 1.207.440.5100
Fax + 1.207.786.0271
info.usa@modula.com
www.modula.com

Modula S.p.A

ITALY HEADQUARTERS

Via San Lorenzo, 41
42013 Salvaterra di Casalgrande (RE) - ITALY
Tel. +39 0522 774111
Fax +39 0522 774175
info@modula.com
www.modula.com

All information provided in this catalog is for informative purposes only and is not binding. Modula reserves the right to change information in this catalog at any time. Modula will not accept liability for or guarantee the accuracy of the information contained herein.

