



# Modula WMS

Think Vertical, Think Modula

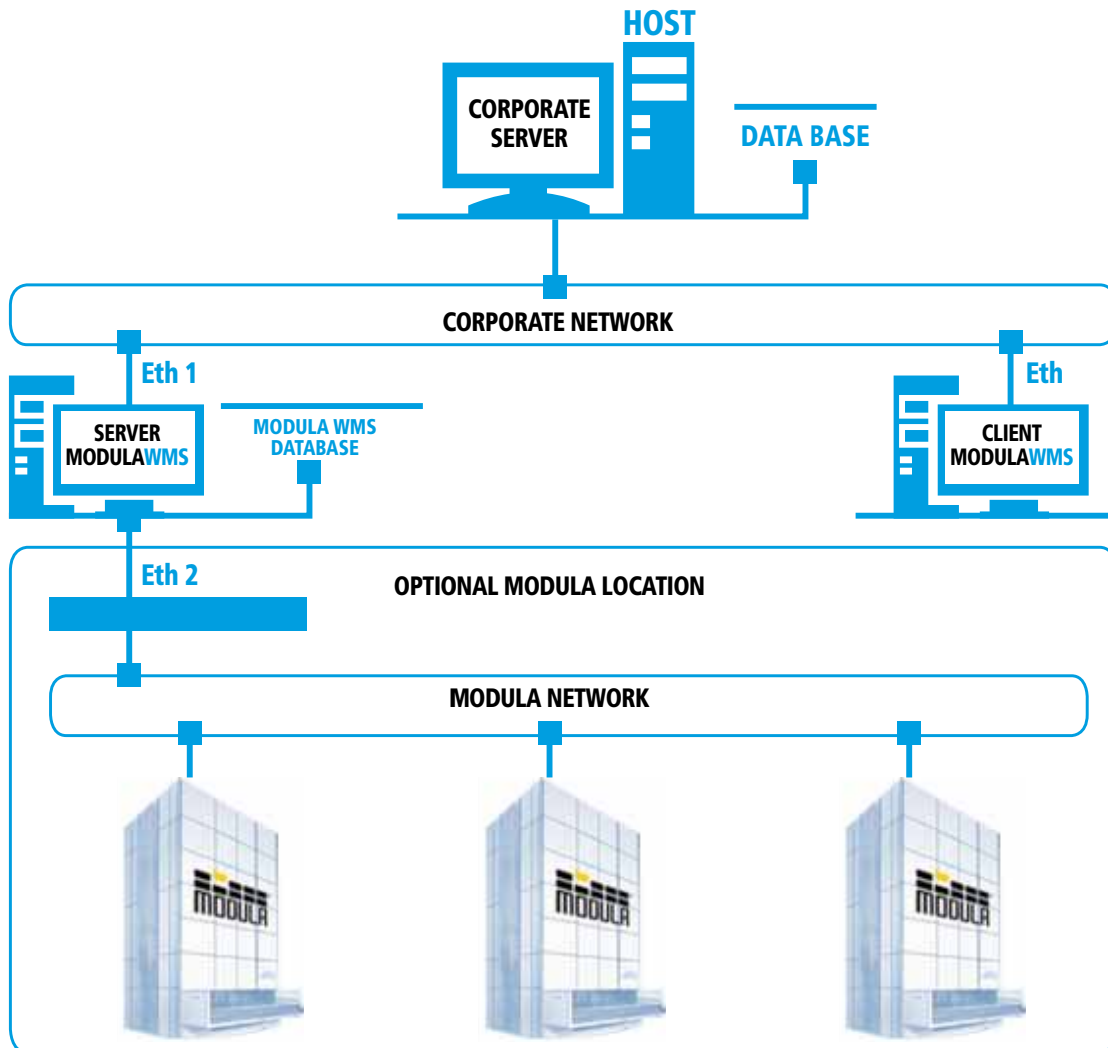
# Warehouse management system

Modula WMS software is a complete inventory management software ideal for all Modula automated storage equipment, such as VLM's, vertical carousels and horizontal carousels as well as with traditional storage methods, such as shelving or racking.

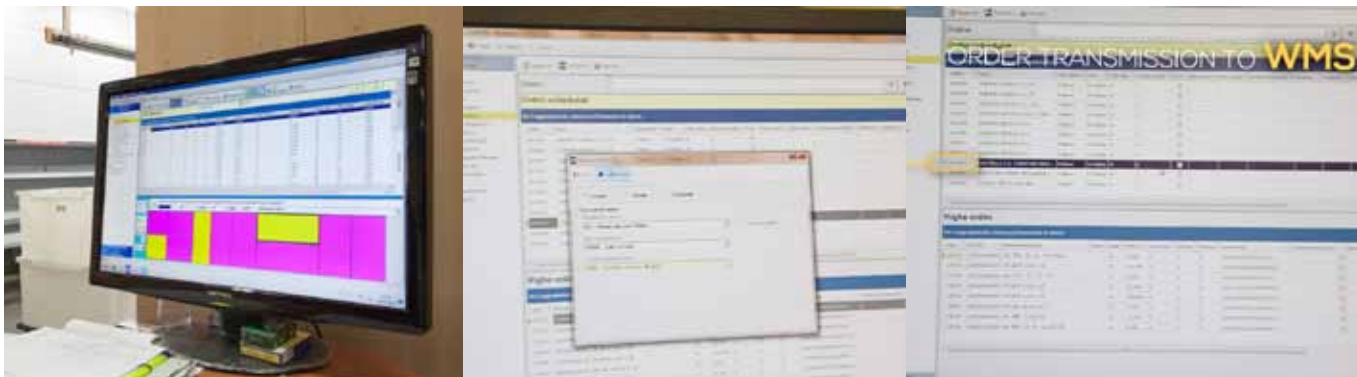
Modula WMS software is able to be used as the perfect compliment to all Modula units for additional space and utilization management or even as a stand alone software tool for your warehouse.

It allows for a real-time management of items via a **PC interface**. All that is needed to be supplied is a PC to act as the software's server and customers may choose to add additional "client" PC's for their use, depending on the number of storage area locations or specific needs.

Modula WMS installs the **Express version of Microsoft SQL Server**, which is free and does not require any additional licenses. The SQL Server database used must be exclusively for Modula WMS to use.



# Benefits of Modula WMS



## CONTROL AND EFFICIENCY

Using your data to its fullest potential to improve and maximize the overall performance of your operation.

- Repetitive tasks and procedures are automated.
- Material movements are well planned to optimize tasks.
- Processes and paperwork are substantially reduced.

## INVENTORY OPTIMIZATION

Modula WMS software continuously searches for optimal locations to further maximize space and optimize inventory in the best possible manner.

## EASE OF USE

Operating procedures are efficiently designed for an intuitive and easy to use experience, by even lower skilled users.

## INTEGRATION TO YOUR HOST SYSTEM

Modula WMS provides an easy ability to integrate with your ERP or Host systems (SAP, Oracle, Microsoft, etc.), MRP or other applications, providing an exchange of accurate and continuous information between systems and Modula WMS.

## PRODUCTIVITY IMPROVEMENTS

By optimizing order management, Modula WMS provides users with the ability to increase speed of order execution for both picking and replenishment operations, all done with complete item traceability.

## CONFIGURABILITY

Modula WMS is easily adapted to existing corporate software systems and organizational needs. The result is minimal impact to current procedures and preferences.

# Software Packages



## MODULA WMS BASE

The BASE software module is the included package provided with all Modula units sold. It provides the basic tools necessary to manage the space and utilization of units, such as order register management, graphical tray location management, the ability to request individual items by way of orders or individual item requests, execution of physical inventories and the ability for integration with a client's management system by means of a manual text file exchange with a predefined path.



## MODULA WMS BASE PLUS

The BASE PLUS software module adds two important functionalities in addition to the BASE software module. Advanced security management to limit access to specific trays or items, based on the user's login profile. And an automatic and configurable import/export data exchange with a client's management system, using text files or shared tables accessible via ODBC, XML, ASCII or Excel files.



## MODULA WMS STANDARD

The STANDARD software module includes functionality designed to make Modula units as efficient as possible, added functionalities include:

- Dynamic item to compartment allocation management.
- Dynamic batching and item serial & lot number management.
- FIFO and expiration date management.

It also provides warehouse statistical analysis tools as well as print report customization.



## MODULA WMS DRIVER

The DRIVER software module allows clients who already have a "Host Management" type of software in place to have the ability to manage several Modula units for their picking, replenishment and cycle-counting needs using the in place Host system. Communication is made possible using text files or shared tables. It is possible to use visual picking aid accessories such as the X-Axis LED Bar, Alphanumeric LED Bar and Laser Pointers. The CoPilot console is used to allow operators to interact with units, although all item and order requests are done using the existing WMS.



## MODULA LINK

Modula LINK allows clients who already have a "Host Management" type of software in place to have the ability to control the automation commands of several Modula units. Communications with the supervisory Host PC is accomplished via sockets. In this case there is no order information exchanged, rather specific machine movement commands to move storage locations are sent based on the items needed. It is possible to use visual picking aid accessories such as the Alphanumeric LED Bar and Laser Pointers. The Copilot console in this case is not used by operators to interact with the unit. In this case it is necessary to use RF terminals or another PC to execute orders and interact with the external host system.

# Supplementary software modules

to be added to the modula WMS standard package:



## ADVANCED ITEM MANAGEMENT

The advanced item management module provides additional functionality to the STANDARD software:

- Extended fields for advanced item management
- Ability to associate images to items for picking operations
- Ability to group items into families for improved search and filtering capabilities
- Advanced security management options able to limit access to specific trays for users
- Multiple, pre-defined types of order management possible

## REMOTE ASSISTANCE

The remote assistance module provides the ability to connect remotely to Modula SMS through a web browser. It allows for easy error diagnostics and assistance in troubleshooting issues quickly and easily without having to wait for a software technician to arrive.

## MANUAL WAREHOUSE MANAGEMENT

The manual warehouse management module allows for the creation and management of manual storage areas. Users can also manage material transfers between areas as well as incoming materials received.

### • RADIO FREQUENCY

The RF software module is only available in addition to the manual warehouse module and it further extends its functionalities. The RF module allows the use of Windows CE or Mobile based RF terminals to manage manual storage areas.

## ADVANCED ITEM PICKING

The advanced item picking module provides additional functionalities to improve picking activities such as batch picking “put-to-light” system management, packing list management, and assembly kitting management.

## SAP® IDOC

The SAP® IDOC module allows for interfacing with SAP® WM module by means of standard SAP IDOC's.

# Services provided

In addition to MODULA WMS software, the following services are available to its users.



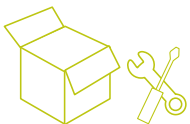
## WMS INSTALLATION

Modula WMS software is installed by computer specialists using a fast guided procedure. Once the program has been installed on the server and on any clients and the Modula VLM units have been configured in Modula WMS, the system is immediately ready for use.



## STAFF TRAINING

After installation and the initial configuration of the Modula VLM units, the staff that will be using the software will receive basic training in the use and operation of the software and its functionalities. On request, additional in-depth training sessions are available to be organized if needed.



## INTEGRATION WITH A HOST MANAGEMENT

Software integration consultation and support is available when required and its goal is to provide the support required for a fast and effective integration to the host or ERP system.



## WARRANTY AND SUPPORT

Modula WMS is covered by a limited warranty and support until the end of the software's life cycle. The licensor reserves all rights not expressly stated herein.



## TECHNICAL SERVICE

Telephone support and/or remote service support is provided using the Remote Assistance module.



## Accessories

Black&Decker	USA
Colgate Palmolive Company	USA
Costan	Italy
Cristian Lay	Spain
Deny Fontaine	France
Dewalt	USA
GGB	USA
Incold	Italy
Maria Galland	Germany
Osram	Mexico/Italy
Seco Tools	France

## Aeronautic

Barry Controls Aerospace	USA
Bombardier	Germany
Dassault Aviation	France
Embraer	Brazil
Eurocopter	France
Israel Aerospace Industries	Israel
JPR	France
Krasny Oktyabr	Russia
Lufthansa	China
TFI	France

## Food Industry

Acetaia di Modena	Italy
Beam Global	Spain
Contri Spumanti	Italy
Damm	Spain
Marchesi Antinori	Italy
Mars	USA
Nestle	Great Britain
Pepsi Corporation	USA
Spendrups	Sweden
Vonpar Refrescos	Brazil
Yoplait (General Mills)	France

## Furnishing

Alexandria Mouldings	USA
Edilkamin	Hungary
Franke	Italy
Immergas	Italy

## Automotive

Automobili Lamborghini	Italy
Axletech	France
Betamotor	Italy
Brembo	Italy/Poland/China
Caterpillar	USA
Chrysler	Mexico
CNH Industrial (FIAT)	Spain/Belgium
Continental	Germany/Romania/Serbia
Daimler	Germany
Ferrari	Italy
FIAT	Italy/Serbia
Ford	Spain
Goodyear	Germany
Iveco (FIAT)	Spain
John Deere	USA
Renault	France
New Holland Tractor (FIAT)	Holland
Pagani Automobili	Italy
Porsche	Germany
Volkswagen	Germany/China

## Biomechanical/Biomedical Industry

Biotec	Italy
Fatro SPA	Italy
Medison co.	Korea
Merit Medical Systems	USA
Neodent	Brazil
Steris Corporation	USA
Symrise	USA
Synthes	USA

## Paper Industry/Publishing

Crane&Co	USA
Irving Tissue	USA
MPO	France
Rocktenn Preprint	Canada
SICPA	Brazil
Sofidel	Italy/France

## Ceramic Industry

Cooperativa Ceramica di Imola	Italy
Euroceramique	Spain
Kajaria Ceramics	India
Pamesa Ceramica	Spain
Porcelanosa Group	USA
Sacmi	Italy/Mexico
Serenissima Ceramiche	Italy
Tecnografica	Italy

## Chemical

Akzo Nobel	Italy
BASF	Spain
Dupont	USA
Firmenich	Switzerland
Grupo AC Marca	Spain
Infracor Gmbh	Germany
Wacker Chemie	Germany

## Construction Industry

Aluplast	Italy
I.K.O.	Canada
Saint Gobain	USA
Wilo SE	Germany

## Electrical/Electronic Industry

ABB	Estonia
Disano Illuminazione	Italy
Emerson Industrial Automation	Brazil
ETI	Slovenia
Johnson Controls	Germany
Kemet	Mexico
Moog	Italy
Rexroth Bosch Group	Germany/Russia
Siemens	USA/Germany/Mexico
Staubli	France
Tyco Electronics	Mexico

## Energy Industry

Babcock & Wilcox	USA
BP British Petroleum	Great Britain
Conoco Phillips	USA
Dow-Kokam	USA
Duke Energy	USA
Nordex Energy Gmbh	Germany
Petrobras	Brazil
Schlumberger	Mexico

## Pharmaceutical

Abbott	France
Amgen	USA
Bayer	Mexico
Cooper Vision	USA
Fresenius Kabi	Italy
GlaxoSmithKline	USA
Janssen Pharmaceutical	Belgium
Johnson & Johnson	USA
Roche	Italy

## Hydraulic/Oledynamic/Pneumatic Industry

Dicsa	Spain
Festo Pneumatics	Mexico
Hawe Hydraulics	USA/China
HP Hydraulics	Italy
IMM Hydraulics	Italy/Great Britain
Mono Pumps	Great Britain
Sag/Sagom Tubi	Italy

## Logistics/Transport Industry

AVTO LOGISTIKA	Russia
CSX Transportation	USA
DB Service Gmbh	Germany
Infrabel Railway	Belgium
Kuhne + Nagel	Spain/France
MTA Metro North Railroad	USA

## Mechanical/Metallurgy

Bonfiglioli Riduttori	Italy
Comau	Italy/Romania
Fanuc Robotics	Italy
Fliegl	Germany
Honeywell Garrett	Italy/Romania
IMA Industries	Italy
KBA Konig&Bauer	Germany
Marchesini Group	Italy
Otis	Italy
Rodo-ketten	Germany
Su-matic	Italy
Thyssenkrupp	Brazil/China
Vesuvius	Germany

## Plastic Industry

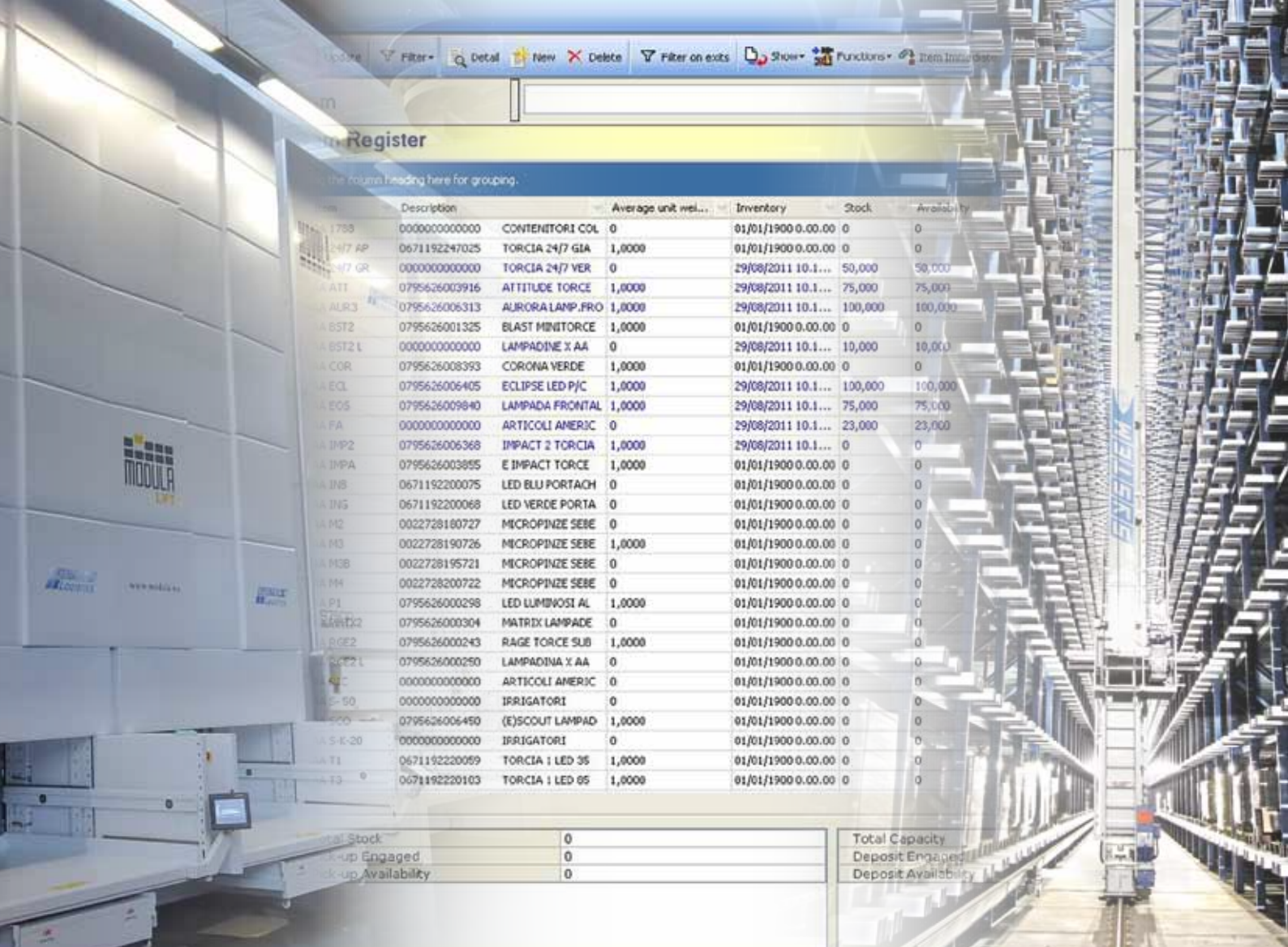
Lavel Gomma	Italy
Schwartz Gmbh	Germany
Trelleborg	Great Britain/China
Vision Extrusion	Canada

## Administrative/Public/Army

A.O.U. Ospedali Riuniti Di Trieste	Italy
GOZ Obukhov State Plant	Russia
Guardia di Finanza	Italy
National Institutes of STDS	USA
NHS National Services Scotland	Great Britain
US Army / Airforce / Navy	USA

## Textile Industry/Clothing Industry

Cotton Republic	Mexico
Giorgio Armani Operations	Italy
Jeans Knit PVT Ltd	India
Max Mara Group	Italy
Valentino	Italy



Item	Description	Average unit weight	Inventory	Stock	Availability
1759	0000000000000	CONTENITORI COL	0	01/01/1900 0.00.00	0
247 AP	0671192247025	TORCIA 24/7 GIA	1,0000	01/01/1900 0.00.00	0
247 GR	0000000000000	TORCIA 24/7 VER	0	29/08/2011 10.1...	50,000
ATT	0795626003916	ATTITUDE TORCE	1,0000	29/08/2011 10.1...	75,000
ALR3	0795626006313	AURORA LAMP PRO	1,0000	29/08/2011 10.1...	100,000
BST2	0795626001325	BLAST MINITORCE	1,0000	01/01/1900 0.00.00	0
BST2 L	0000000000000	LAMPADINE X AA	0	29/08/2011 10.1...	10,000
COR	0795626008393	CORONA VERDE	1,0000	01/01/1900 0.00.00	0
ECL	0795626006405	ECLIPSE LED P/C	1,0000	29/08/2011 10.1...	100,000
E05	0795626009840	LAMPADA FRONTAL	1,0000	29/08/2011 10.1...	75,000
FA	0000000000000	ARTICOLI AMERIC	0	29/08/2011 10.1...	23,000
IMP2	0795626006368	IMPACT 2 TORCIA	1,0000	29/08/2011 10.1...	0
MPA	0795626003895	E IMPACT TORCE	1,0000	01/01/1900 0.00.00	0
IN8	0671192200075	LED ELU PORTACH	0	01/01/1900 0.00.00	0
IN5	0671192200068	LED VERDE PORTA	0	01/01/1900 0.00.00	0
M2	0022728180727	MICROPINZE SEBE	0	01/01/1900 0.00.00	0
M3	0022728190726	MICROPINZE SEBE	1,0000	01/01/1900 0.00.00	0
M3B	0022728195721	MICROPINZE SEBE	0	01/01/1900 0.00.00	0
M4	0022728200722	MICROPINZE SEBE	0	01/01/1900 0.00.00	0
P1	0795626000298	LED LUMINOSI AL	1,0000	01/01/1900 0.00.00	0
Matrix2	0795626000304	MATRIX LAMPADE	0	01/01/1900 0.00.00	0
RAGE2	0795626000243	RAGE TORCE SUB	1,0000	01/01/1900 0.00.00	0
RAGE2 L	0795626000250	LAMPADINA X AA	0	01/01/1900 0.00.00	0
SC	0000000000000	ARTICOLI AMERIC	0	01/01/1900 0.00.00	0
S-50	0000000000000	ISFRIGATORI	0	01/01/1900 0.00.00	0
S-50	0795626006450	(E)SCOUT LAMPAD	1,0000	01/01/1900 0.00.00	0
S-E-20	0000000000000	ISFRIGATORI	0	01/01/1900 0.00.00	0
T1	0671192220059	TORCIA 1 LED 35	1,0000	01/01/1900 0.00.00	0
T3	0671192220103	TORCIA 1 LED 65	1,0000	01/01/1900 0.00.00	0

Total Stock	0
Stock Engaged	0
Stock Availability	0

Total Capacity	
Deposit Engaged	
Deposit Availability	

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Modula is present in 5 Continents with dealers and branches located in over 30 countries.

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