SMART WAREHOUSING SOLUTIONS
A solution for every need
BOOST YOUR WAREHOUSE EFFICIENCY WITH SMART SPACE MANAGEMENT
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CONVENTIONAL PALLET RACKING

Optimised solution for warehouses containing palletised goods and a wide variety of SKUs.
» **Direct access** to every single product.
» Easy **stock control**: each storage slot holds one pallet.
» **Adaptable** to any space, weight or size of goods.
» Double-deep racks can be installed to increase storage capacity.

INNOVATIVE SAFETY LOCKING SYSTEM THAT PREVENTS ACCIDENTAL OR DELIBERATE MOVEMENT OF THE BEAM.
DRIVE-IN RACKING

Ideal for managing many products of the same SKU.
» Maximum **utilisation of available space**, both surface area and height (up to 85%).

» Excellent for **homogeneous products** with many pallets per SKU.

» **No aisles** between the racks.

» Perfect for **freezer rooms** requiring full use of available storage space.

CAN BE USED WITH EITHER LIFO (LAST IN, FIRST OUT) OR FIFO (FIRST IN, FIRST OUT) WITH BATCHES WHEN THERE ARE MORE THAN THREE LANES PER SKU.
PALLET SHUTTLE SYSTEM

Optimised storage capacity: an electric shuttle moves inside the channels, inserting and removing pallets autonomously.
Compact, **high capacity** system: storage of up to 40 m deep.

High **productivity**: increased flow of pallets/hour.

Greater **diversification**: one SKU per storage channel.

Maximum **safety**: less damage and fewer accidents.

PERFECT FOR STORING CONSUMER PRODUCTS WITH A HIGH PALLET TURNOVER RATE.
Perfect for cold storage

» Implementing the Pallet Shuttle in cold storage warehouses is ideal, as it makes maximum use of the cold store’s volume.

» Energy cost savings.

» Adaptable to temperatures between -30 °C and 45 °C.
Extremely simple control system

» Very intuitive interface that makes it much easier for operators to perform their tasks.

» Possibility of integrating Easy WMS warehouse management software and the Pallet Shuttle control system on the same screen.
LIVE PALLET RACKING

Pallets accumulate in the storage channels by gravity, compacting space and ensuring agile management.
» **Perfect pallet turnover** with the FIFO method: the first pallet in is the first pallet out.

» Ideal system for **perishable products**.

» Savings in space and time when handling pallets.

» Optimal **use of surface area**. Up to 30 pallets deep per channel.

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**UNINTERRUPTED FLOWS:**
NO INTERFERENCE BETWEEN LOADING AND UNLOADING OPERATIONS
BY DESIGNATING A DIFFERENT AISLE FOR EACH TASK.
PUSH-BACK RACKING
Maximised available space with high accessibility and agility in goods handling.
» Excellent **use of space**: up to four pallets deep.

» **LIFO method**: loading and unloading are carried out from the same side.

» Suitable for **medium-turnover** products.

» Each channel can be used to store a **different SKU**.

» **Reduced times** for loading and unloading operations.

AGILITY AND SAFETY IN OPERATIONS: FORKLIFTS DO NOT HAVE TO ENTER THE RACKS AND ONLY WORK FROM ONE AISLE.
MOVIRACK MOBILE RACKING

Maximise your storage capacity with racking installed on mobile bases.
» Direct access to each pallet.

» With only one working aisle needed for access, the mobile bases free up storage space by compacting the goods and can even multiply the capacity of the space.

» Suitable for cold storage or freezer warehouses due to the lower energy consumption per pallet stored.
CLAD-RACK WAREHOUSES

The best solution for high-bay storage with maximum use of the available surface area.
» **Space optimisation**: storage area is increased by eliminating intermediary pillars.

» **Quick implementation** with minimal construction: the racks themselves form the building structure.

» **High performance** warehouses that can incorporate different degrees of automation.

» Ideal for freezer or **cold stores**.

» Both **automated** and **standard** systems can be implemented.
AUTOMATED STORAGE AND RETRIEVAL SYSTEMS (AS/RS) FOR PALLETS

Boost warehouse productivity by automatically depositing/removing pallets from the racking.
Raised **productivity** in goods inflows and outflows.

Elimination of **errors** arising from manual management.

**Inventory controlled** and updated in real time.

**High profitability** due to lower labour and maintenance costs.

**Space** maximisation.

**Load safety.**

**OPTIMISED PRODUCT ENTRY, PLACEMENT AND EXIT FUNCTIONS CONTROLLED BY THE WAREHOUSE MANAGEMENT SYSTEM (WMS).**
AUTOMATED PALLET SHUTTLE

All the advantages of compact storage and automation.
» **Maximum capacity** with storage channels up to 40 m deep and racking over 40 m tall.

» **Raised productivity** by increasing the number of pallet cycles/hour.

» **Automated** management. Error elimination.

» **Lower labour and energy costs** and less floor space used.

» **Reduced risk** of accidents and total control of goods.

**IN COMBINATION WITH STACKER CRANES, THE PALLET SHUTTLE SYSTEM CAN REACH A STORAGE HEIGHT OF UP TO 40 M.**
AUTOMATIC TRILATERAL STACKER CRANES

Perfect solution for automating conventional racking up to 15 m tall without altering the warehouse structure.
» **Economical automation** with a rapid return on investment.

» **Maximum use of locations**: pallets can be picked from floor level.

» **Reduced operating costs**.

» **Improved safety** in the facility.

» **Low maintenance costs**.

» **Integrated trilateral extraction system**: a rotating head picks and stores pallets in three positions.

EASY TO IMPLEMENT IN BOTH NEW AND EXISTING FACILITIES, AS THE WAREHOUSE STRUCTURE DOES NOT REQUIRE MODIFICATION.
PALLET CONVEYOR SYSTEMS
Automation of internal goods transport, optimising flows and boosting productivity.
» Reliability in **continuous flows** of products.

» **Fewer accidents** and errors compared to manual transport.

» **Wide range** of components for different combinations and circuits.

**MAXIMUM STANDARDISATION OF MEASUREMENTS AND COMPONENTS TO MAKE PRODUCTION EASIER AND LOWER COSTS.**
MINILOAD SYSTEMS
Perfect for box storage and picking operations using the goods-to-person concept.
» Complete **automation** of entries and exits.

» Great **productivity**.

» **Maximum use** of available space.

» **Elimination of errors** stemming from manual management.

» **Real-time Inventory**.

» Excellent storing **small loads**.

INTEGRATES THE RACKING, STACKER CRANE AND WAREHOUSE MANAGEMENT SYSTEM ROLLED INTO ONE.
SHUTTLE SYSTEM FOR BOXES

For increasing storage density, order picking speed and, thus, productivity.
» **Continuous flow** and operations 24/7.

» **Maximum speed** in goods entries and exits.

» **High** number of movements/hour.

» **Modular and scalable** based on logistics needs.

» **Optimisation of available surface space** to expand storage capacity.

» **Easy maintenance** without the need to completely stop the operation of the system.

ADAPTABLE TO DIFFERENT UNIT LOADS: PLASTIC OR CARDBOARD BOXES AND METAL TRAYS OF MULTIPLE SIZES.
HIGH PERFORMANCE PICK STATION
Preparation of a large number of orders: up to 1,000 picks/hour
» **Speed and productivity** for businesses that manage a high number of orders.

» Possibility of preparing up to 6 orders simultaneously.

» **Ergonomic** system that adapts to the height of the operator.

» **Elimination of errors** thanks to the warehouse management software’s instructions.
BOX CONVEYOR SYSTEMS

For increased speed in moving and handling boxes and light loads in the warehouse.
» Improved **communication** between different areas or levels.

» Possibility to span **long distances**.

» Ability to **sort** orders.

» Essential for any **automated process**.

» Can be **combined** with any other storage system.

» Easy **maintenance**.

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**SCALABLE AND FLEXIBLE: POSSIBLE TO DESIGN AN INFINITE NUMBER OF CONFIGURATIONS AND TO EXPAND OR MODIFY CONVEYORS ALREADY IN OPERATION.**
METAL SHELVING FOR MANUAL PICKING

Economical, efficient solution for manual storage of medium and heavy loads.
» **Great strength** and versatility.

» Ideal for **diverse SKUs** and split turnover.

» **Multiple accessories** for storing products of particular shapes: tyres, clothing, spare parts, etc.

» **Gangways** can be installed to leverage the height of the warehouse.

WITH NARROW AISLE HANDLING EQUIPMENT, THESE SHELVES CAN BE UP TO 20 M TALL.
CARTON LIVE STORAGE
Boost efficiency in order picking, minimising travel in the warehouse.
» **Optimal product turnover** (FIFO method: the first box in is the first box out).

» **Greater number of SKUs** in the front part of the racks.

» **No interference** in replenishment and picking operations.

PICK-TO-LIGHT SYSTEMS SPEED UP ORDER PICKING AND MINIMISE ERRORS.
LIGHT DUTY SHELVING

Basic manual storage and archiving system for light and medium loads: up to 200 kg per level.
» High-quality finishes that adapt to all types of environments, from warehouses to offices and garages.
» Easily assembled and scalable.
» Wide range of accessories: additional modules, vertical dividers, book dividers, metal doors, plastic drawers, etc.
PICK MODULES

Ideal for e-commerce warehouses with intensive order processing: they divide order picking into different sections by levels.
» **Maximum use** of vertical space.

» **Flawless management** of stored materials.

» **Multiple configurations** adaptable to each operation.

» **Storage of different load types**: from small parts and individual items to packages and boxes.

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**PICK MODULES CAN BE COMBINED WITH AUTOMATIC LIFTS OR CONVEYORS TO STREAMLINE MOVEMENTS BETWEEN LEVELS.**
MOVIBLOC MOBILE SHELVING

Perfect for offices, this compact system can be used to store files, small products and valuable or delicate items.

» Storage capacity is doubled, saving space.
» Material stored will be organised, clean and secure.
» Suitable for archiving all types of books and documents.
MESH PARTITIONING AND ENCLOSURES

Ensure protection of operators, goods and machinery in warehouses and production centres.

» Modular, adjustable system for any area requiring partitioning.
» Quick and simple assembly.
» Easy to expand and modify at any time.
» Design and installation meet workplace safety regulations.
CANTILEVER RACKING
Designed to store long or variable length unit loads.
» For unit loads such as metal profiles, pipes, moulding, wooden boards, metal or plastic sheets, etc.

» Levels can be placed on one or both sides of the structure.

» Extremely simple, sturdy structure.

» Features all the necessary elements for outdoor installation.

THESE RACKS CAN BE INSTALLED ON MOBILE BASES TO INCREASE STORAGE CAPACITY.
INDUSTRIAL MEZZANINE FLOORS

Simplest, most economical and versatile solution for making the most of the height of the warehouse space.
» Greater storage capacity by adding one or more additional floors.

» Easy, quick assembly.

» Adaptable to any requirement due to the wide variety of sizes, floor types, construction systems, etc.

» Can be fully dismantled and reused.

» Possible to use in combination with conveyors and automatic lifts.

MULTIPLE FINISHES AND CONFIGURATIONS ADAPTABLE TO ANY TYPE OF PRODUCT, WAREHOUSE OR LOGISTICS OPERATION.
EASY WMS WAREHOUSE MANAGEMENT SYSTEM

The logistics software created by warehousing experts.
Easy WMS is a powerful, versatile and flexible warehouse management system. It controls and optimises all movements and operations that take place in a facility, eliminating errors and reducing logistics costs.

Easy WMS manages a manually operated warehouse (using RF scanners) with the same efficiency as an automated facility or an online shop, thanks to its WMS for Ecommerce module.

» Order preparation.
» Stock control in real time.
» Cost reduction.
» Adaptation to e-commerce.
» Error elimination.

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EASY WMS MAXIMISES WAREHOUSE OPERATIONS AND PRODUCTIVITY

The software sends instructions directly to the operators, who work faster knowing what to do and where to go at any given time.

GOODS RECEIPT

» Identifies and checks items received. Then assigns them the optimal location.

PRODUCT STORAGE

» Ensures ideal locations, manages replenishment, and controls stock and its traceability.

ORDER DISPATCH

» Creates the necessary documentation and organises the loading of the delivery lorry.

ORDER PICKING

» Sends instructions, generates pick paths and streamlines picking and packing for order fulfilment.
Easy WMS in the cloud

» Lower initial investment — no need to purchase servers.
» Faster, simpler implementation.
» Easy, cost-effective maintenance. Completely secure with Microsoft Azure.
» Software version up-to-date at all times.
» Always available to ensure business continuity.

BENEFITS GAINED WITH EASY WMS

- Storage capacity increased by up to 40%
- Errors eliminated by up to 99%
- Order picking productivity raised by up to 30%
- Inventory costs reduced by up to 40%
- Handling operations decreased by up to 30%
- Handling equipment reduced by up to 30%

EASY WMS MODULES

- WMS FOR ECOMMERCE
- STORE FULFILLMENT
- MULTI CARRIER SHIPPING SOFTWARE
- WMS FOR MANUFACTURING
- SUPPLY CHAIN ANALYTICS SOFTWARE
- 3PL WAREHOUSE MANAGEMENT SOFTWARE
- MARKETPLACES & ECOMMERCE PLATFORMS INTEGRATION
- LABOR MANAGEMENT SYSTEM (LMS)
- WAREHOUSE SLOTTING SOFTWARE
- YARD MANAGEMENT SYSTEM
- WMS AND PALLET SHUTTLE INTEGRATION

Our solutions are certified by:
TECHNICAL INSPECTION
OF RACKING SYSTEMS

Standard UNE-EN 15635 requires an annual inspection of your installation by qualified external personnel.
Have you scheduled your mandatory annual inspection?

The objective of this inspection is to:

» Improve safety in your warehouse.

» Reduce risks.

Mecalux has been offering this technical inspection service to its customers for over 25 years to enhance the safety and efficiency of their logistics facilities. The condition of the warehouse will be certified with a label placed on the safe load warning notice, indicating the date of the next inspection.

OUR TECHNICIANS PERFORM A RIGOROUS INSPECTION OF THE INSTALLATION, CHECKING THE CONDITION OF THE RACKING AND SHELVING AND OF THE WAREHOUSE IN GENERAL.
Feel free to get in touch with your local branch office

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Mecalux has a presence in more than 70 countries worldwide

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