



DimaSimma

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**AUTOMATIC WAREHOUSES and AGV
FOR STORING AND HANDLING OF
ALUMINIUM, STEEL, PVC and WOOD**

INTEGRATED LOGISTICS AND AUTOMATIC STORING SYSTEM FOR ALUMINIUM-STEEL-PVC-WOOD



Since the end of the 60's DimaSimma is projecting and manufacturing automatic storing systems for all industrial activities.

Since then DimaSimma has been continuously developing and innovating in the automation of industrial processes.

In cooperation with his Customers, DimaSimma elaborates fully automatic customer-tailored solutions, especially in the field of extrusion and of industrial carpentry.

DimaSimma srl has been delivering all over the world storing systems in the field of aluminium, steel and PVC with full satisfaction of the Customers.

Purpose of this catalogue is to show some examples of application of automatic storing system for long goods and moulds/dies in the field of aluminium, steel, PVC and wood.

There are several possible solutions, that are applied according to the Customer needs and objectives.

The Motto of DimaSimma is:

„We project and supply not only automatic warehouses, but first of all systems that, interfaced with handling equipment form a global solution integrated in the production“

In facts, interfaced with the production area, surface treatment, commissioning, thermal break, cutting, assembling and delivery, the warehouse turns out into a «tool machine».



AUTOMATIC WAREHOUSES and AGV FOR STORING AND HANDLING OF ALUMINIUM, STEEL, PVC and WOOD

The product range of DimaSimma includes different storing system according to the Customer demand.

A) EMS - Elephant Modular Store.

Compact tower store in the version either for existing building or in the outdoor execution protected by cladding.

Loading capacity of each cassette is up to 5 tons, for profiles length of up to 14 m.

This store can be equipped, on different levels, with storing / retrieval stations in the front or in the sides.

The station can consist of conveyors or of motordriven shuttle.



An economic and compact solution....

- From 80 to 160 cassettes with direct access.
- Max. height of the store up to 15m.



Installation indoor and outdoor: the system is designed for an easy and quick cladding



Configuration details:

*Cassette: open or closed type.
Station: with conveyor or shuttle,
either in the front or in the side.*



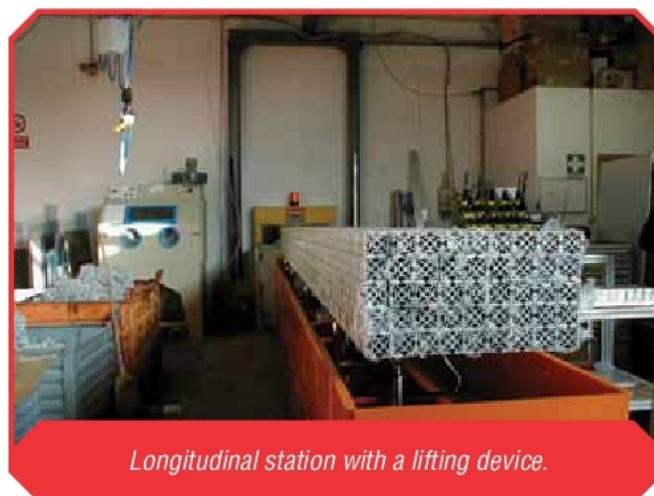
B) ES - Elephant Store system.

It consists of a module running on side rails placed at the base of the shelving structure. Customer-tailored executions and dimensions.

Loading up 2 tons/cassette. A specific and flexible solution for storing and handling the Customer existing containers.

This warehouse can be equipped, at different levels, side or frontal in-out stations.

A solution from 100 up to 500 loading units, height up to 9 meters.



Longitudinal station with a lifting device.



Storing system for Customer's existing containers.



Longitudinal station.

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C) ETS - Elephant Top Store.

It consists of a module running on rails placed on the top of the store structure. The cassettes are designed in function of the dimensions and weight of the products to be stored. Loading up to 5 tons/cassette. This warehouse can be equipped, at different levels, with side or frontal in-out stations.

A solution from 100 up to 500 loading units, height up to 16 meters.



Automatic system for bar extraction.



Machine detail: access for the maintenance.



Variants: tunnels and stations at different levels.

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D) BeeHiveStore *(see also photo in the cover page).*

This warehouse is designed for big volumes of long products and enables impressive production flows. Loading units: up to 10 m length, width and height according to customer needs, maximum load up to 3.000 kg/skid.

The storing skid can be equipped for directly receiving the products, as well as the customer's or the supplier's containers.

Execution either inside an existing hall or outdoor (the shelving structure can support a protecting cladding). In this way the warehouse turns out into a building.

A solution from 300 up to 6.000 loading units, height up to 25 meters.



Example of warehouse that directly receives the profiles.



Warehouse with double platform, for enabling considerable production flows.



Technical solutions for maximized stations, for feeding process machine, commissioning, assembling, packaging and shipment.

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E) Automatic Warehouses for dies

Warehouses designed for any type and quantities of dies. Maximised floorspace / volume relationship.

**Storing systems from 500 up to 15.000 dies –
dies diameter up to 700 mm and unit weight up to max. 1.500 kg.**



Example of execution of a warehouse with high density of dies storing in the loading unit.



Example of execution of a warehouse for storing groups of complementary products in the loading units.



Solutions for maximized storing and handling logistics in the production flow.

**AUTOMATIC WAREHOUSES and AGV FOR STORING AND HANDLING
OF ALUMINIUM, STEEL, PVC and WOOD**

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transport of coils & rolls up to 50 ton



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Our Experience for Your Satisfaction...



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AGV: VEHICLE FOR TRANSPORT, STACKING AND STORING

Our deal is the integration at any level: our AGV vehicle can interact as well with static shelving as with automatic warehouses.

Advantages:

- Floorspace maximization.
- Higher productivity thanks to the automation.
- Time maximization, thanks to the quick access to the material.
- Safety for the workers.
- Full product traceability.
- Inventory update in real time.



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