POWERSTORE™

FLEXIBLE & SUSTAINABLE ¦ OPTIMAL UTILIZATION OF PALLET STORAGE SPACE

Efficient Pallet Storage

PowerStore is a shuttle storage and retrieval system designed for deep lane storage of palletized loads. PowerStore is tailored to provide an attractive ROI for companies with small, medium and large storage needs. This fully automated system is very adaptable in size and shape and can therefore be implemented using existing space to maximize density and efficiency in your current warehouse.

The simultaneous use of automated storage and retrieval devices, along with independent lifts means that PowerStore has the ability to make your warehouse the world's most efficient with the highest density and throughput in the industry. In addition, PowerStore can perform in various temperature zones including deep freeze environments.

PowerStore can be configured either with ProMove conveyor systems or with a monorail system, depending on the requested throughput.

BENEFITS

▪ **Fast & Reliable**
Thanks to its high density and throughput, the system processes orders efficiently and stores 40 - 60% more pallets compared to conventional storage.

▪ **Flexible & Modular**
PowerStore can be implemented into a building of any shape and size. The modular technology allows for easy addition of extra modules. It is suitable for most pallet types.

▪ **Sustainable & Competent**
PowerStore boasts low energy consumption which leads to reduced operational costs. More than 25 successfully installed PowerStore systems are already in operation worldwide.

Projects implemented with PowerStore:
PEPSI ¦ COCA-COLA ¦ TRINCHERO FAMILY ESTATES

PROVIDES BETTER USE OF AVAILABLE SPACE THAN ANY OTHER AUTOMATED PALLET STORAGE SYSTEM

### COMPONENTS ¦ VERTICAL CONVEYOR AND TRANSFER CONVEYOR

Vertical Conveyor

The single mast design accommodates fast and effective pallet movements between levels. The lift motor and the most critical components are located on floor level for easy maintenance. Therefore the design incorporates the ability to remove or replace these critical parts within one hour if required.

Transfer Station

The Transfer Station is available with chains, or beams/rail platform and separates the vertical conveyor from the aisle carrier.

COMPONENTS ¦ SOFTWARE
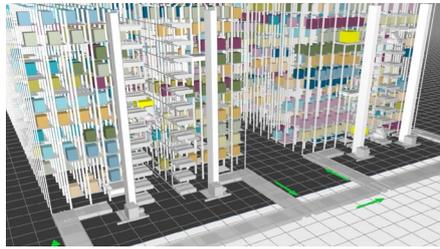
Integrated Software

User-friendly storage and retrieval software comes standard with every automated Swisslog solution. The software offers:

- Seamless integration with the ERP system
- Feature-rich and flexible software components which can be used to solve complex requirements
- Centralized material flow control handled by MFCS
- All needed graphical views, from high-level views providing status information for all subsystems to low-level views for each subsystem
- Condition monitoring as a base for preventive maintenance actions and future system improvements

COMPONENTS ¦ AISLE CARRIER & ROW CARRIER

Together, the Aisle Carrier and Row Carrier pair deliver and retrieves pallet loads from the rack.

Aisle Carrier

The Aisle Carrier transports the Row Carrier, with or without a load unit on it, between the Vertical Conveyor and the designated row. The Aisle Carrier knows its position along the aisle rail through a laser positioning system.

Row Carrier

The Row Carrier retrieves from and delivers to the Transfer Station at the Vertical Conveyor. The Row Carrier regards its position on the Aisle Carrier as its "home" position. The Row Carrier utilizes a precision laser for positioning and wireless Ethernet/IP or Bluetooth for communication with Aisle Carrier. The Row Carrier is designed to handle various pallet types and load requirements.

FACTS

Load weight per transport unit	up to 1 500 kg in standard application
Transport units	CHEP, EURO, BLOCKPALLET, STRINGER, AS
Aisle Carrier vehicle speed	up to 5.0 m/s
Row Carrier vehicle speed	up to 3.0 m/s
Vertical Conveyor	up to 2.0 m/s
Throughput	up to 200 pallets per hour per module
Temperature range	Ambient version 32 F - 113 F (0 - 45 °C) Cold storage version -22 F – 32 F (-30 - 0°C)

swisslog