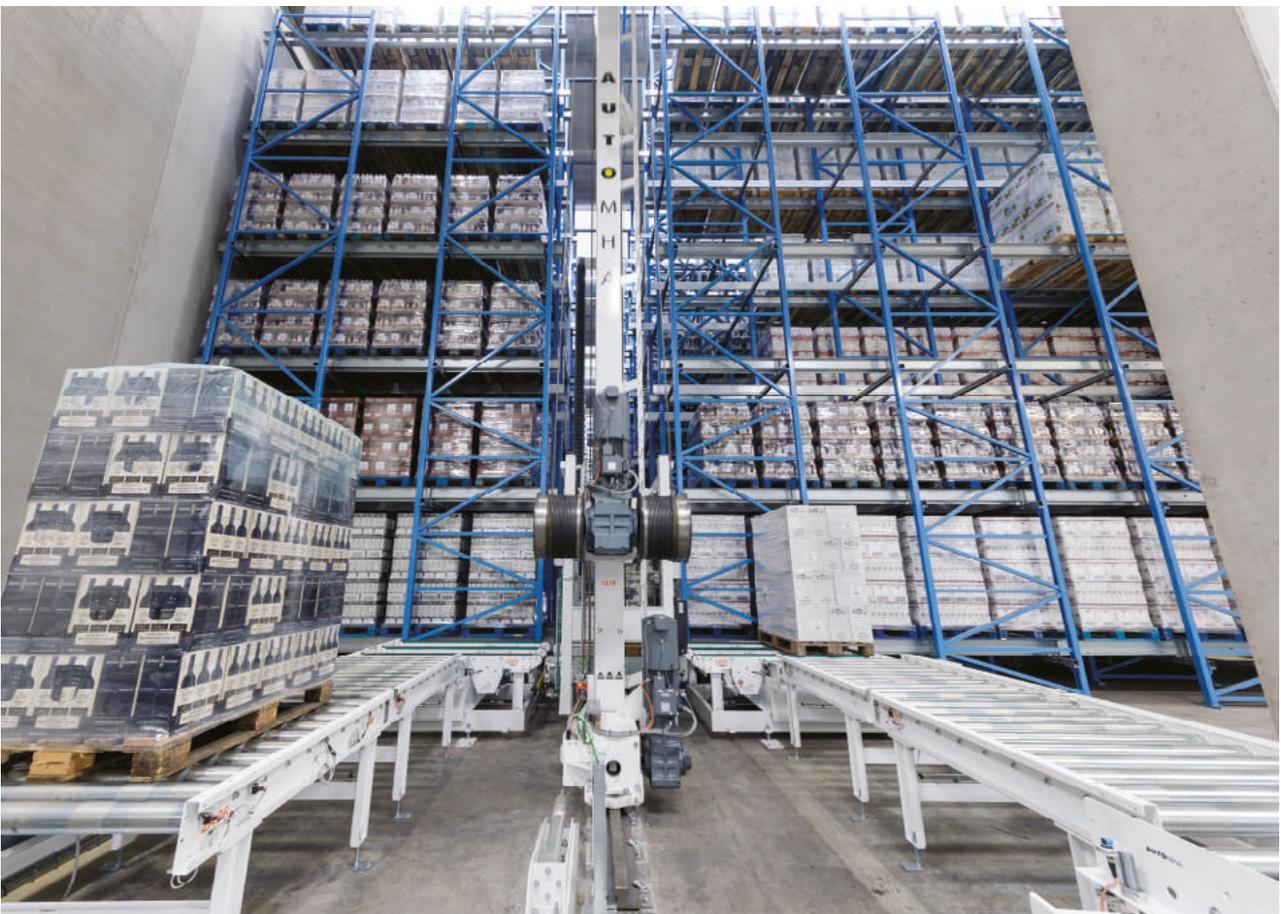




The fully-automated warehouse for the storage of loading units of all weights and sizes suitable for all industrial sectors, equipped with various picking systems (telescopic forks, on-board satellite).



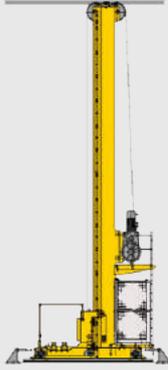
Stacker crane warehouses allow for the automated storage of loader units of all weights and sizes. The SRM stacker cranes are designed for solutions which make the most of available space while respecting the modes of handling requested.

Warehouses with SRM technology can be adapted for pre-existing industrial buildings or be inserted into specially-made or self-supporting structures.

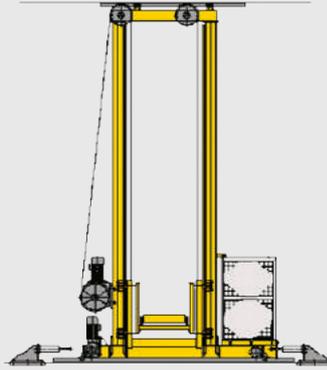
AUTOMHA stacker cranes run on rails equipped with exclusive anti-vibration plates and receive their power supply for motion from bus bars positioned on the ground and double brushes on the machine.

The SRM is not connected to the ground-based switchboards via cable and is managed by precise systems controlling the operational functions: this guarantees an elevated level of safety and precision.

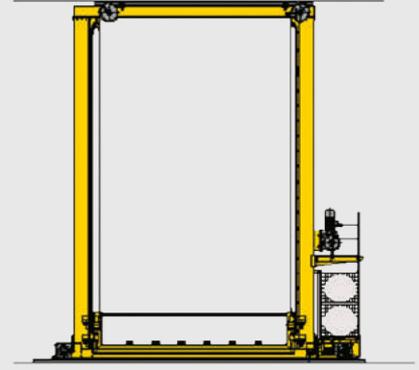
MODELS



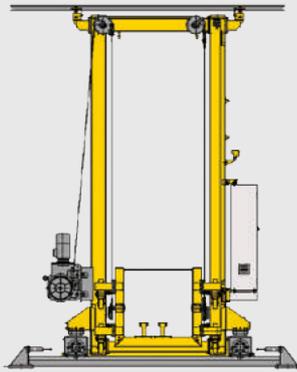
SRM Single column stacker crane - SC



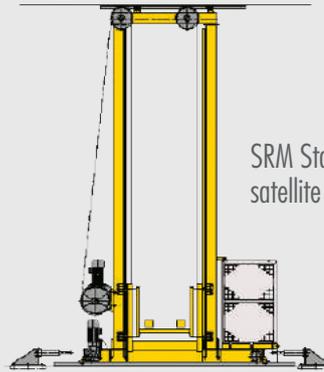
SRM Double column stacker crane - DC



SRM Stacker crane for long units - DCL

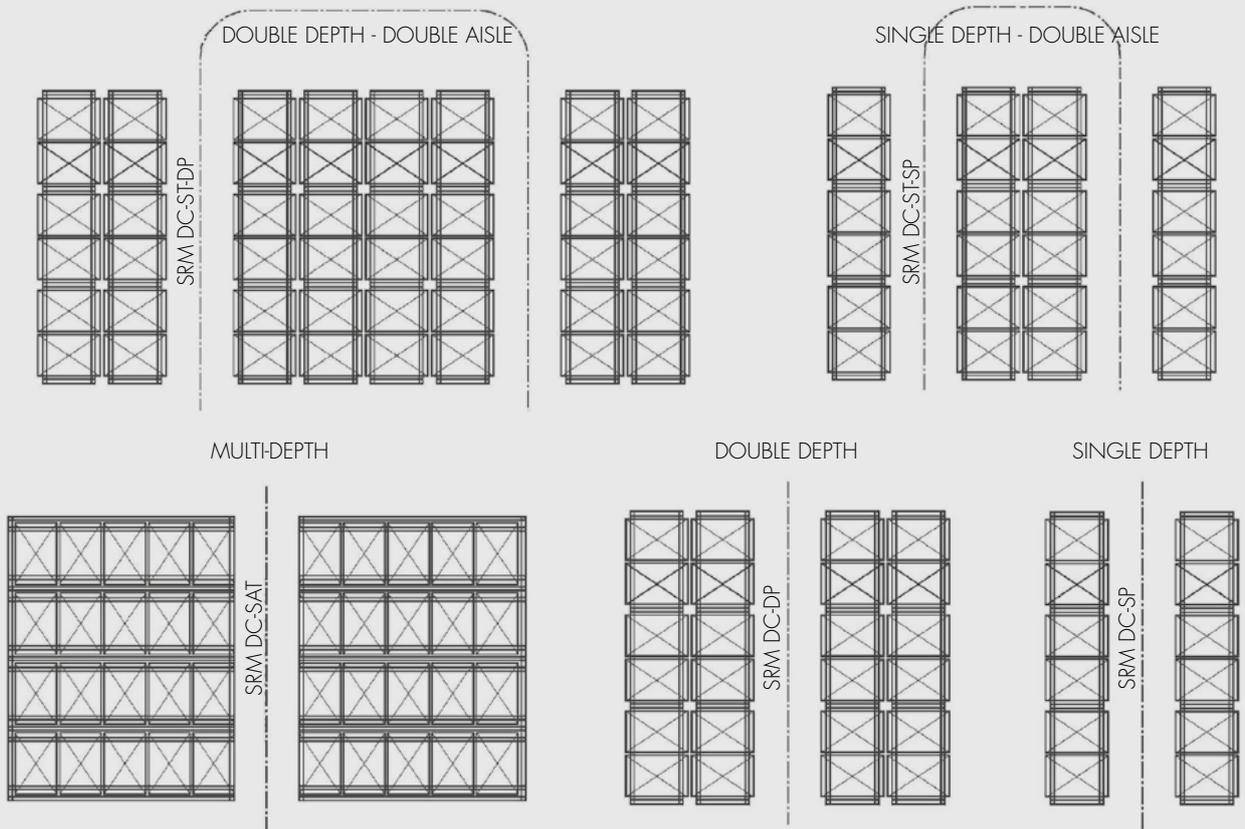


SRM Steerable stacking crane - ST



SRM Stacker crane with on-board satellite for multi-depth storage

CONFIGURATION



TECHNICAL SPECIFICATIONS

● General

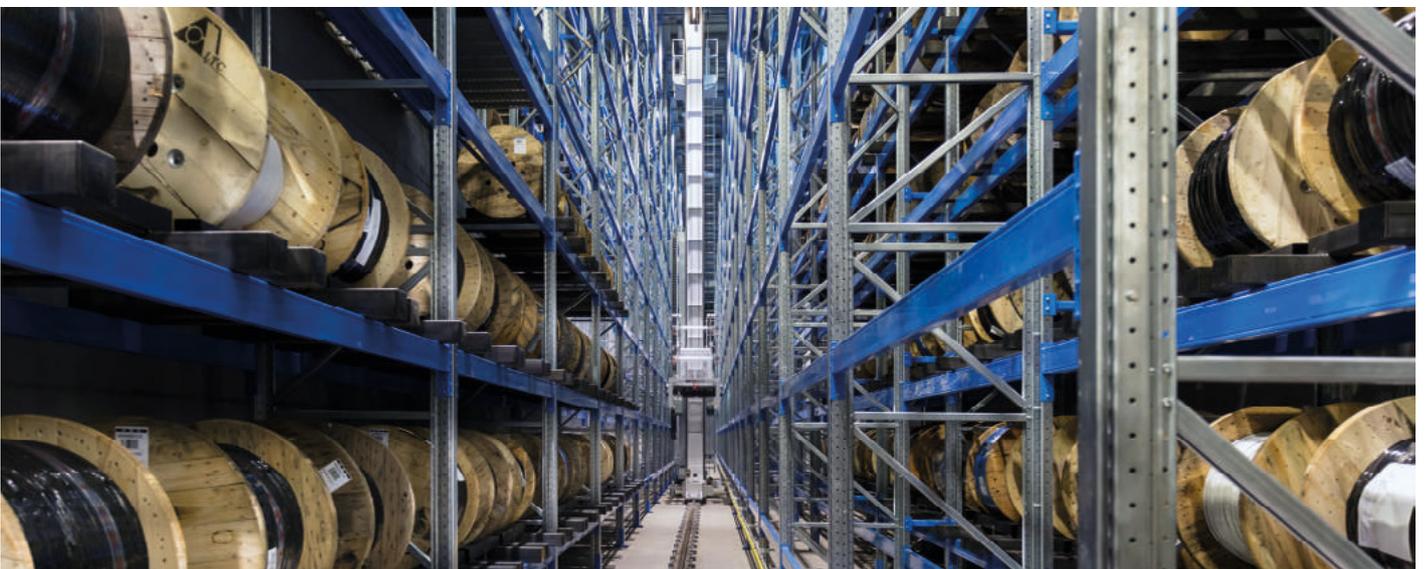
- Maximum capacity 3000 kg
- Maximum height 35 m
- Maximum running speed m/1' 200
- Running acceleration m/1.5"
- Lifting acceleration m/1.5"
- Max speed and lifting m/60 min
- Average fork picking speed m/50 min
- Automation of input and output
- Elevated productivity
- Permanent inventory
- Elimination of errors
- Functioning in temperatures as low as -30°C

● Machine body

- Steel column, structured to guide the vertical running cradle
- Lifting with steel cables and command hoist
- Independent drive units with motors electronically synchronised for torque control (according to the cycles requested).
- The running system is usually equipped with a single motor, an optional second motor reducer unit is available for increased acceleration

● Metal runners

- Running rails on the ground with shock absorption and upper runners integrated into the racks



● Electronics and control

- Communication via infra-red or Wi-Fi
- Reading of fork position via encoder
- Transfer and lifting positions read via precise laser sensors
- Hydraulic buffers at the end of the lane
- Power supply via bus bar with on-board double brushes
- Safety systems according to current regulations
- Sensors on the cradle for verification of the correct centering and height of the loading units

● System completion

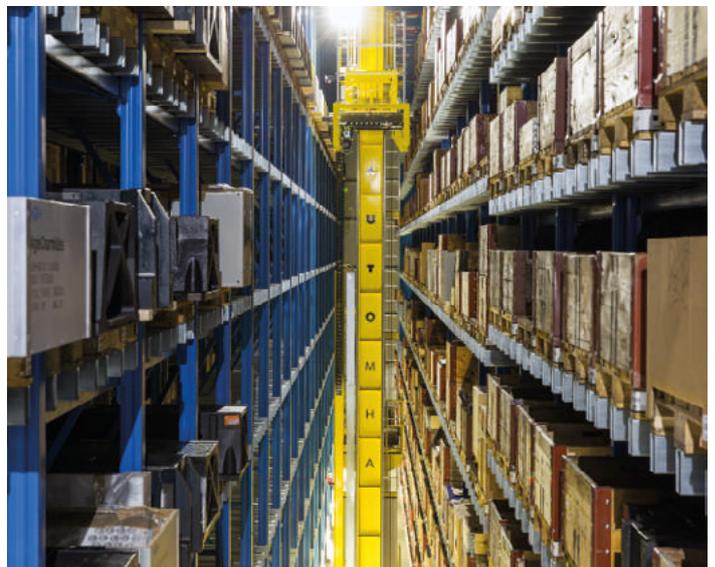
- Modular storage racks
- System perimeter walls with sound-absorbing panels and full coverage in the case of self-supporting warehouses
- Complete external handling system for the management of differing loading units

● Software

- AWM software for warehouse management and for interfacing with the automation computer
- Operator interface PC client
- SCADA system for the full monitoring of the system

● Various gripping systems

- Telescopic forks for maximum triple-depth storage,
- satellite with AUTOSAT battery for multi-depth storage
- satellite with SUPERCAP supercapacitor for multi-depth storage





ADVANTAGES

● **Cost saving**

The BOOSTER machines provide energy savings. During the deceleration and cradle descent phases, the motors regenerate energy which is then fed back into the factory power network. This leads to considerable reductions in costs.

● **Silent operation**

● **Handling of any type of loading unit**

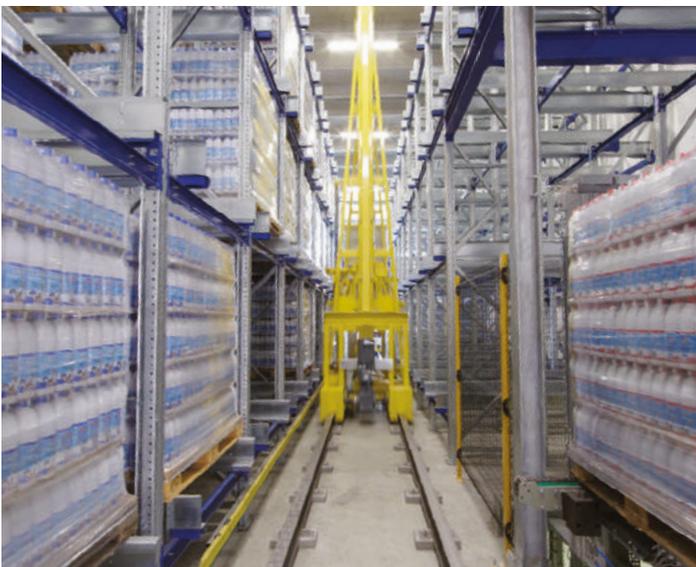
pallets of any size, metal or plastic containers, trays, frames, rolls and reels, long items, vehicles, finished products.

● **Can be adapted to pre-existing structures**

● **Possibility for multi-depth storage with the use of on-board satellites**

● **Suitable for all industrial sectors, particularly recommended for the textile sector**

● **Constant operational levels at temperatures of between -30°C and +55°C**





SECTORS OF APPLICATION

- **Logistics centres**
- **Food storage**
- **Low temperature food storage**
- **Textile production**
- **Pharmaceuticals**
- **Electrics - Electronics**
- **Mechanics**
- **Beverages**
- **Manufacturing industry**
- **Publishing**

