



CAR PARKING

SP system

AUTOMOTION
PARKING SYSTEMS



CONSUMER BENEFITS

- ◆ **Safe, Secure and Convenient**
 - No one enters the car, personal belongings are secure
 - No scratches, dents, or dings
 - Retrieval in less than 2 minutes for all system applications

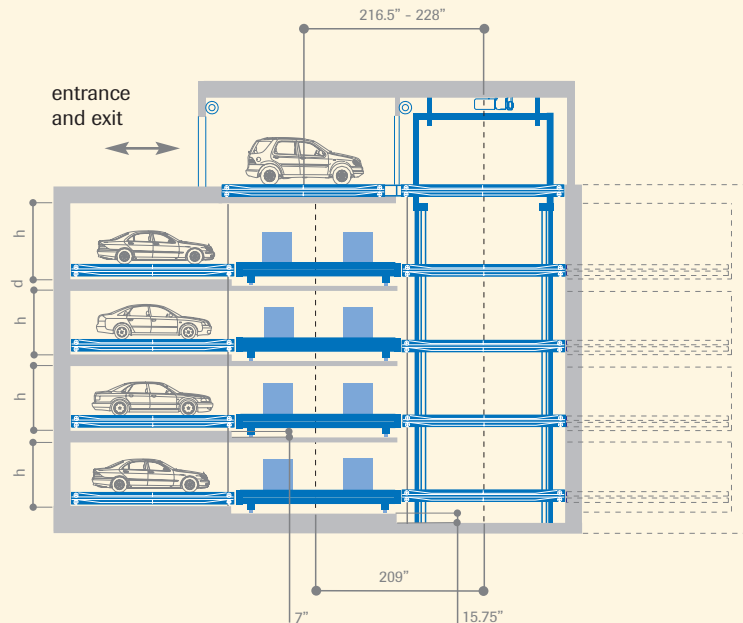
GROUNDBREAKING ADVANCES

- ◆ **Maximizes land use and parking revenues**
 - 2 to 3 times more spots than the conventional parking equivalent
 - Parking spaces can be created where previously impossible
 - Significantly increases project's financial performance
- ◆ **Improves customer parking experience**
- ◆ **System designed to eliminate the possibility of damage to vehicles**
- ◆ **Environmentally friendly**
 - Consistent with "Green" building requirements – LEEDS
 - Eliminates harmful emissions – no running engines
- ◆ **Reduced infrastructure costs**
 - Limits underpinning, excavation costs, as well as site preparation
- ◆ **Reduced labor costs**
- ◆ **Reduced operations costs**
- ◆ **Optional features**
 - Fully integrated user interface and cash management system
 - Car wash
 - Remote management
 - Redundant power supply
- ◆ **Research & Development**
 - Bomb detection
 - High security facility

SP Car Parking System

The SP system is designed for locations that require a large number of parking spots and receive a high volume of traffic. Based on a modular concept, the SP can be adapted to meet the specific requirements of any given location. Through the combination of vertical car elevators passing through the entire system and shuttles that work on each individual parking level, the SP boasts a limitless array of possible configurations. The SP provides several hundred parking spots that can be built above or below grade. Transfer rooms can be placed on every level within or above the system. The SP allows for various car heights and its integrated quick change system allows drivers to retrieve cars rapidly, minimizing wait time. The transfer rooms and rotating turntable are arranged to position the vehicle toward the exit, allowing the driver to proceed immediately forward.

Side view: Parking spots within a concrete structure



Clear height per level = car height + 15"

The size of the control cabinet room depends on the number of car elevators and the number of transfer rooms. If the system contains one car elevator and one transfer room, the control cabinet room must be 11.5' (138") L x 79" W x 86.5" H. To accommodate an additional car elevator, the length must be increased to 14.75' (177").

Entrance and Exit Alternatives

IMAGE 1

Directly driving onto the elevator. In this case, the transfer room is a drive-through solution without a rotating unit. This solution requires the elevator pit's dimensions to be increased by 39".

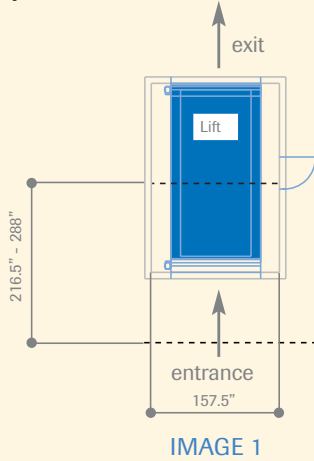


IMAGE 2

Lateral transfer room with turntable. The elevator can process a new request while the transfer room is occupied.

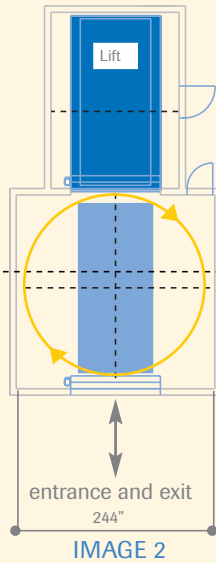


IMAGE 3

Double-sided transfer rooms, each with turntable. This allows both transfer rooms to be used for entering and exiting the parking system, based on demand.

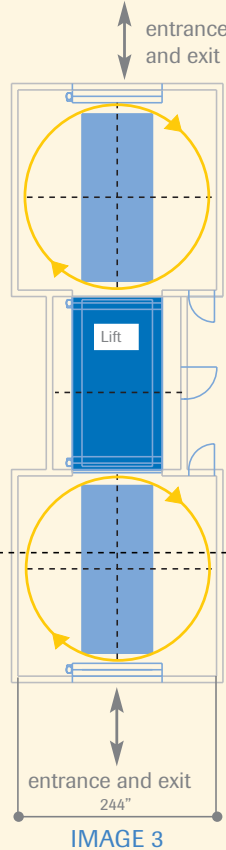
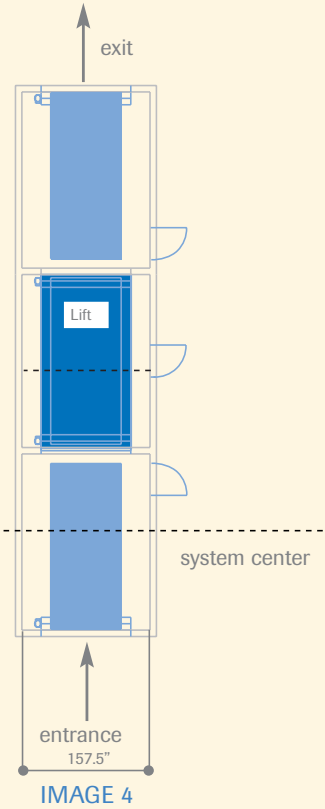


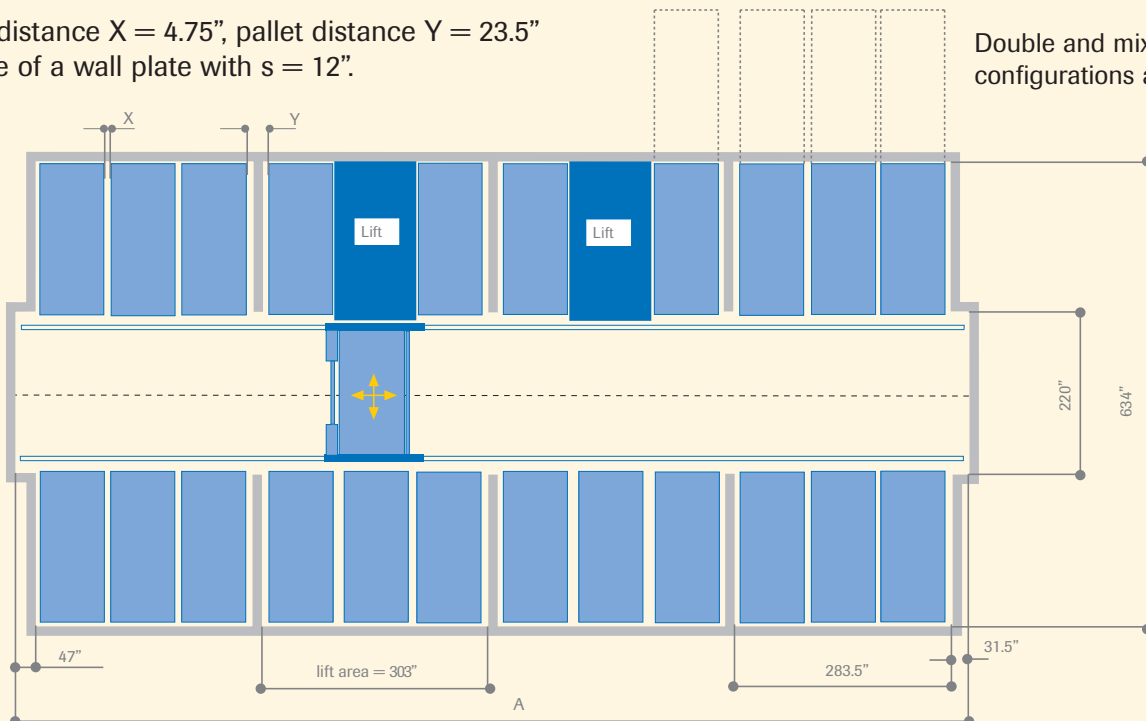
IMAGE 4

Double-sided transfer rooms with dedicated entrance room and exit room. The car elevator can process a new request while the transfer room is occupied.



Pallet distance $X = 4.75'$, pallet distance $Y = 23.5'$ in case of a wall plate with $s = 12'$.

Double and mixed row configurations are possible.



Automotion is an innovative parking system that combines a traditional elevator parking system with computerized guidance software. This allows Automotion to maximize the number of cars a location can handle while automating the entire vehicle storage and retrieval process. Automotion Parking Systems employs a comprehensive staff of architects, engineers and automated site planning solution specialists to aid in the development of your project. Automotion Parking Systems is the leader in transient parking systems in The United States.

STOPA is one of the global leaders in automated storage systems with more than 1800 installed systems including car parking systems of more than 3000 fully automated parking spaces

SP System

Parking solution for a large number of parking spots and high-volume traffic

- Customized configurations
- Retrieves cars quickly, minimizing driver wait times
- Turntable allows drivers to enter and exit in driving direction
- Accommodates a variety of vehicle heights
- Suitable for public use
- Works best in concrete buildings

LP System

Parking solution for narrow buildings

- Customized configurations
- Installation above or below grade
- Retrieves cars quickly, minimizing driver wait times
- Turntable allows drivers to enter and exit in driving direction
- Accommodates a variety of vehicle heights

TP System

Parking solution for spaces with minimum surface area and high headroom

- Customized configurations
- Installation above or below grade
- Retrieves cars quickly, minimizing driver wait times
- Turntable allows drivers to enter and exit in driving direction
- Accommodates a variety of vehicle heights
- Suitable for public use

UP System

Universal parking solution

- Customized configurations
- Installation above or below grade
- Retrieves cars quickly, minimizing driver wait times
- Turntable allows drivers to enter and exit in driving direction
- Accommodates a variety of vehicle heights
- Suitable for public use

Carbox System

Parking solution for a maximum of 20 parking spots

- Suitable for long-term parkers only
- Single or double row configurations
- Installation above or below grade
- Turntable optional



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