



**AUTOMOTION PARKING SYSTEMS**  
**THE TRUE TURNKEY PARKING SOLUTIONS**

# **AUTOMOTION UP SYSTEM**

FULLY-AUTOMATED UNIVERSAL PARKING SYSTEM

Universal parking system for parking up to 100 vehicles with a maximum height of 65" as an underground, above-ground or mixed solution.



**AUTOMOTION PARKING SYSTEMS, LLC**

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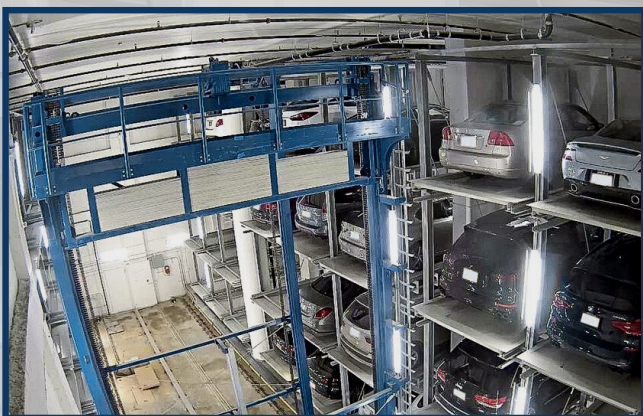
## UP SYSTEM

### ABOUT UP SYSTEM

The AutoMotion Universal Parking System (UP) is our fully-automated parking system that can accommodate up to 100 vehicles with 1 Storage and retrieval unit at a maximum height of 65.7 ft. and can be implemented as a below-ground, above-ground or mixed solution.

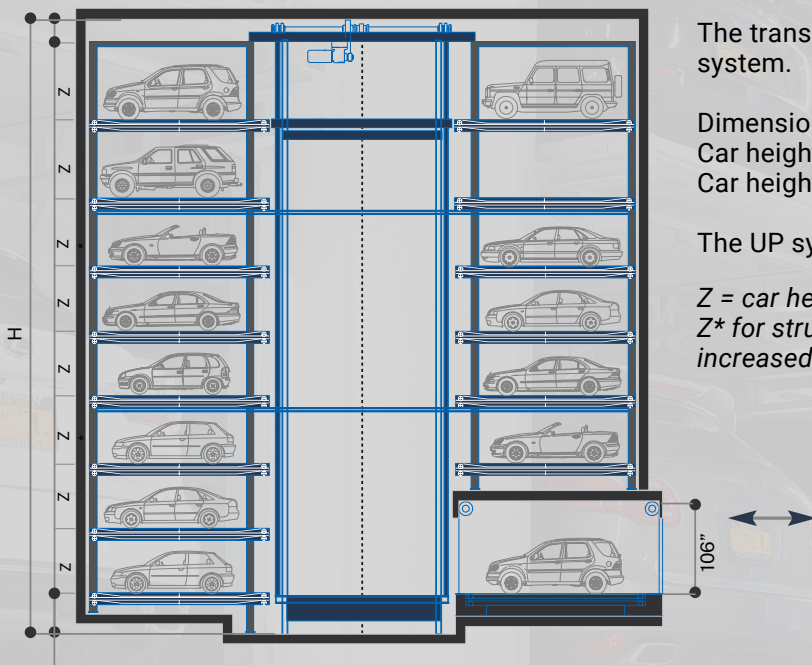


Our UP System is the Universal parking system that gives you the option to build more parking spaces economically in office buildings or as a public parking system. With AutoMotion's UP System, up to 100 parking places for various vehicles can be accommodated using only 1 Storage and Retrieval Unit (SRU) at a maximum height of 65.7 ft. With AutoMotion UP System, our parking solution's rack structure can be built above-ground, below-ground, or in a mixed-solution type of parking.





### SIDE VIEW: PARKING SPOTS WITHIN A STEEL STRUCTURE



The transfer room can be located on any level within the system.

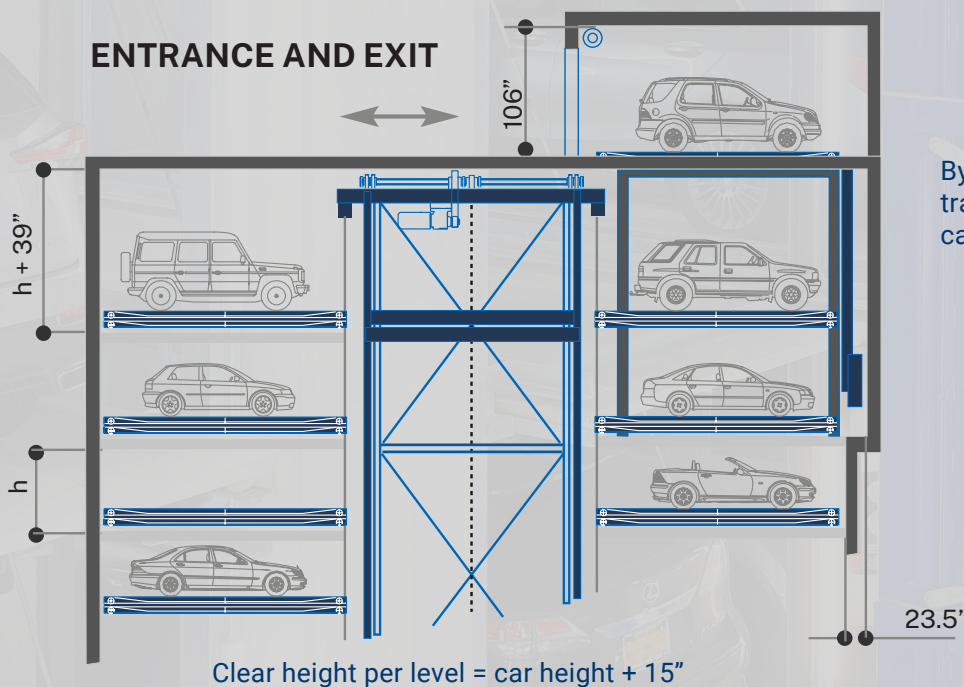
Dimension Z depends on the car height:  
Car height = 63" Z = 74"  
Car height = 78" Z = 89.75"

The UP system allows for many possible car heights.

$Z = \text{car height} + 11"$   
 $Z^*$  for structural reasons every third level must be increased by 39"

The parking places can be located either in a free-standing steel rack structure or in a concrete structure with intermediate slabs. The UP System's quick-change pallet solution enables short retrieval times, even in a double row arrangement with 2 vehicles behind each other. The vehicles can then be parked and retrieved in the driving direction.

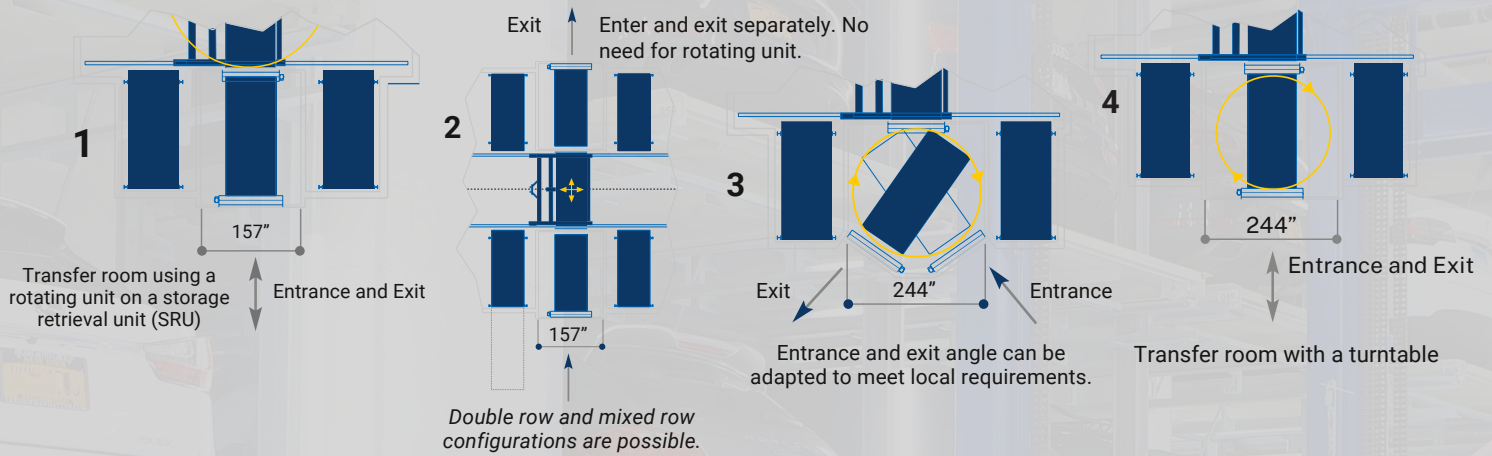
### SIDE VIEW: PARKING SPOTS WITHIN A CONCRETE STRUCTURE



By using a lateral car elevator, the transfer room can be located above the car parking system.



### ENTRANCE AND EXIT ALTERNATIVES



Control cabinets must be installed in a room with a minimum surface area of 11.4' (137") x 71".

The room height must be a minimum of 87". Please note this room should be located close to the transfer room. Parking spots on a steel structure require that the pallet distance X and Y depend on the height of the parking system:

X without wall plates / Y with wall plates  $s = 12"$ .

4 to 6 levels: X = 7" / Y=29"

7 and 8 levels: X = 8" / Y=31"

9 and 10 levels: X = 8.5" / Y=32"

11 and 12 levels: X = 9" / Y = 34"

Dimensions for additional parking levels and free-standing systems are available upon request. Dimensions of parking platform 17.1' (205") x 87"\*

\*Assumes vehicle dimensions of 16.8' (201") L x 87" W.

All dimensions refer to these platform dimensions. Platform dimensions can be customized.

### HOW AUTOMATED PARKING SYSTEM WORKS



#### TRANSFER ROOM

Vehicles will be parked head-in inside the transfer room and checked for the correct position. The vehicle will then be parked via the turntable or directly via the storage and retrieval unit onto an empty shelf. To exit, the vehicle will be returned to the driver's head-out. At no time is the driver ever allowed to interact with the automated mechanism.



#### TURNTABLE

Once the vehicle is parked inside the transfer room, the position checked and passengers have exited, the vehicle will be rotated to a head-out position and parked automatically. The turntable allows for any angle position for entry and exit.



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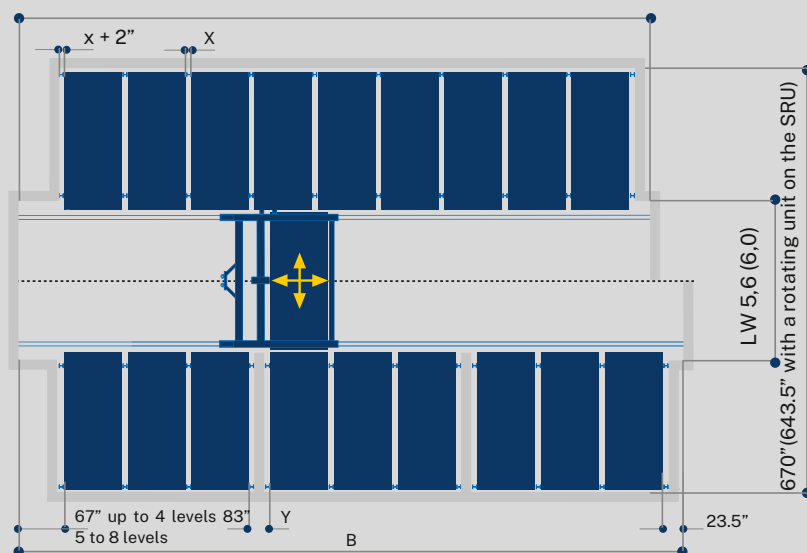
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## ADDITIONAL INFORMATION



### CONCRETE STRUCTURE

Parking spots within a concrete structure require the pallet distance  $X = 4.75''$  without wall plates and  $Y = \text{thickness of the wall plate} + 11''$ .

Control cabinets must be installed in a room with a minimum surface area of  $11.4'$  ( $137''$ ) x  $71''$ . The room height must be a minimum of  $87''$ . *Please note that this room should be located close to the transfer room.*

### STEEL STRUCTURE

Parking spots in a steel structure require the pallet distance  $X$  and  $Y$  depending on the height of the entire system:  $X$  without wall plates /  $Y$  with wall plates  $s = 12''$ .

2 to 4 levels:  $X = 7''$  /  $Y = 29''$

5 and 6 levels:  $X = 8''$  /  $Y = 31''$

7 and 8 levels:  $X = 8.5''$  /  $Y = 32''$

*Dimensions for free-standing systems are available upon request. Dimensions of parking platform  $17.1'$  ( $205''$ ) x  $87''$ \*. (\*Assumes vehicle dimensions of  $16.8'$  ( $201''$ ) L x  $87''$  W). All dimensions refer to these platform dimensions. Platform dimensions can be customized*

## HOW AUTOMATED PARKING SYSTEM WORKS



### RACK STRUCTURE

The system can be constructed around a free-standing or in-house steel rack framework. The vehicles are delivered onto parking pallets situated on a rack. As an alternative, a concrete rack structure can be used with pallet rails bolted to the intermediate slabs.



### STORAGE AND RETRIEVAL UNIT (SRU)

The automatic storage and retrieval unit moves on vertical and horizontal lines to service the various units of the racks. This system allows for the doubling of available parking compared to conventional garage operations.







## AUTOMOTION PARKING SYSTEMS UNIVERSAL PARKING SYSTEM (UP)

### OUR COMPANY

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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.

#### UNIVERSAL PARKING SYSTEM (UP)

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##### UNIVERSAL PARKING SOLUTION

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

#### LATERAL PARKING SYSTEM (LP)

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##### PARKING SOLUTION FOR NARROW BUILDINGS

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

#### SHUTTLE PARKING SYSTEM (SP)

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##### PARKING SOLUTION FOR A LARGE NUMBER OF PARKING SPOTS AND HIGH-VOLUME TRAFFIC

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

#### TOWER PARKING SYSTEM (TP)

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##### 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
- A turntable allows drivers to enter/exit in a driving direction
- Accommodates a variety of vehicle heights
- Suitable for public use

### WHY OUR AUTOMATED PARKING SYSTEM?

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**Our fully automated parking garages** increase parking up to 100% by sliding cars closer together, both side-to-side and bumper-to-bumper.

**Our parking platform** allows parking two levels deep with independent access to any car. This can maximize space normally lost in driving lanes and behind columns.

**Our turntable** allows convenient access in narrow and limited spaces.



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