The PARKPLUS Semi-Automated Lift-Sliding Parking System is a multi-level customizable vehicle storage and retrieval system for storing cars in vertical and horizontal arrays. The Lift-Slide uses Programmable Logic Control (PLC) software to move stacked cars on platforms to receive and present vehicles at grade, providing direct access to stacked vehicles without removing other vehicles from the system.

Entire assembly comes pre-welded and is assembled in the field. System is designed to be mounted on grade with an engineered foundation. System can be designed to stack up to 5 vehicles above grade and up to 2 vehicles below grade, with a maximum vertical stacking capacity of 7 vehicles in the space usually occupied by a single vehicle. There are no horizontal limitations to the system.

The PARKPLUS Lift-Sliding System is designed to be installed indoors and outdoors. System can be customized with external cladding/siding, garage doors and roof, per project specifications. Platform height is set at fixed height between 5'-2" min. and 7'-0" max. Each city may have minimum height requirements and different clear requirements for code required parking. Owner/Architect should review with local planning and building departments. MEP coordination with project team must meet code requirements and satisfy equipment clearances.

**Suitable for**
- Standard passenger vehicles
- SUVs
- Custom Solutions Available

**Specifications**
- Load per Platform: 5,200 lbs.
- Weight of Unit: (Determined by Model)
- Length of Stall: 19'-9" (Determined by Model)
- Width of Stall: 8'-2" 1/2" (Determined by Model)
- Height of Unit: *Excluding column dimensions of structural framework
- *Custom Dimensions Available

**Operation:**
- Electric Control Panel
- Programmable Logic Control (PLC)
- Automatic with Manual Override

**Control:**
- Push Button Control
- Key Fob
- Remote Control (Optional)
- Mobile App (Optional)

**Power**
- Lift Motor: 3 HP – 5 HP
- Traversing Motor: 0.55 HP

**Electrical**
- 1 Disconnect required per system module
- 3 PH 208V (100Amp) – 480V (90Amp) – 60HZ
- All control wiring is a Class 2 Circuit 24V
- Power & Electrical specifications vary per Product Model

**ADDITIONAL INFORMATION**

**Safety**
- System is equipped with limit switches which limit motions to correct system levels and positions. Motion detectors and lasers detect obstructions within the system and stop operation in emergency. System requires operator reset to check safety and obstruction removal. System is equipped with safety locking system. The safety hook system holds full weight of vehicle on platform in locked position. System is equipped with a secondary (anti-fall) safety system. System is equipped with Visual and Audible alarms and Emergency Stops. Safety Gates are required for Self Parking and In-ground units.

**Fire Protection**
- In most metropolitan areas, car stacker systems are reviewed as similar to high piled storage and non-building structures. Fire rating of structural components is not required. Sprinklers may be required per following section. Each city may have fire department guidelines.

**Fire Sprinklers**
- Outdoor: 1. Most cities do not require fire sprinklers. 2. May need to conform to additional zoning regulations and building code requirements.

**Load Capacity**
- 12-month Standard Manufacturer’s Warranty on new equipment.
- Extended Warranty is available at time of purchase.

**Service**
- At end of 12-month warranty period a service contract is available upon request.
- Rental option includes Service & Maintenance for full term.

**Approvals**
- OTCR Certified, City of New York
- LAETL Approved, LARRP Pending, City of Los Angeles
- ISO Compliant
- California Seismic Code Compliant
- Miami Dade County Compliant
- Approved in Multiple U.S. Cities
Applications

• Surface Lots
• Commercial Buildings
• Low & High Rise Buildings

Typical LS System

The PARKPLUS Semi-Automated Lift-Sliding Parking System is a multi-level customizable vehicle storage and retrieval system for storing cars in vertical and horizontal arrays. The Lift-Slide uses Programmable Logic Control (PLC) software to move stacked cars on platforms to receive and present vehicles at grade, providing direct access to stacked vehicles without removing other vehicles from the system. Each assembly comes pre-welded and is assembled in the field. System is designed to be mounted on grade with an engineered foundation. System can be designed to stack up to 5 vehicles above grade and up to 2 vehicles below grade, with a maximum vertical stacking capacity of 7 vehicles in the space usually occupied by a single vehicle. There are no horizontal limitations to the system.

The PARKPLUS Lift-Sliding System is designed to be installed indoors and outdoors. System can be customized with external cladding/sliding, garage doors and roof, per project specifications. Platform height is set at fixed height between 5’-2” min. and 7’-0” max. Each city may have minimum height requirements and different clear requirements for code required parking. Owner/Architect should review with local planning and building departments. MEP coordination with project team must meet code requirements and satisfy equipment clearances.

Suitable for

• Standard passenger vehicles
• SUVs
*Custom Solutions Available

Specifications

Load per Platform: 5,200 lbs.
Weight of Unit: (Determined by Model)
Length of Stall: 19’-9’
Width of Stall: 8’-2 1/2’
Height of Unit: (Determined by Model)
*Excluding column dimensions of structural framework
*Custom Dimensions Available

Operation:

Electrical

Power

Lift Motor: 3 HP – 5 HP
Travelling Motor: 0.55 HP

1 Disconnect required per system module
3 PH 208V (100Amp) - 480V (60Amp) - 60HZ
All control wiring is a Class 2 Circuit 24V
Power & Electrical specifications vary per Product Model

Safeguards

A system of safety features ensure normal operation of each cycle.

System returns to neutral
User will always park & retrieve car from same position on grade.

System presents vehicle at same position of loading

Driver exits vehicle and completes storage command at keypad
Safety gate closes
Vehicle is transferred to specified storage position

Operation

Each module requires an empty stack – allows for shifting of platforms. User will always park & retrieve car from same position on grade. Dedicated spaces/platforms can be assigned.

PARKING / STORAGE

• User requests platform by keypad/push-button control, key fob remote control and /or mobile app.
• System prepares platform and presents at grade level
• Safety gate opens when platform is in position
• Driver pulls vehicle onto platform
• Driver engages parking brake, shuts off vehicle

RETRIEVAL

• User requests retrieval at keypad
• Process is followed in reverse
• System presents vehicle at same position of loading
• Driver enters vehicle, starts and drives away
• Safety gate closes
• System returns to neutral

A system of safety features ensures normal operation of each cycle.

Safety

System is equipped with limit switches which limit motions to correct system levels and positions. Motion detectors and lasers detect obstructions within system and stop operation in emergency. System requires operator reset to check safety and obstruction removal. System is equipped with safety locking system. The safety hook system holds full weight of vehicle on platform in locked position. System is equipped with a secondary (anti-fall) safety system. System is equipped with Visual and Audible alarms and Emergency Stops. Safety Gates are required for Self Parking and In-ground units.

Temperature

This device is designed to operate between 20° and 120° F.

Loading

Structural design and loading is provided on a project by project basis and is dependant on seismic zones, soil conditions and other environmental conditions.

Warranty

12-month Standard Manufacturer’s Warranty on new equipment. Extended Warranty is available at time of purchase.

Service

At end of 12-month warranty period a service contract is available upon request.

Rental option includes Service & Maintenance for full term.

Approvals

• OTCR Certified, City of New York
• LAESTL Approved, LARRP(Finding), City of Los Angeles
• ISO Complaint
• California Seismic Code Compliant
• Miami Dade Code Compliance
• Approved in Multiple U.S. Cities

PARKPLUS PLUSINC.COM
MODEL LS2h0d
2 Levels High
0 Levels Down.

MODEL LS3h0d
3 Levels High,
0 Levels Down.

MODEL LS2h1d5w
2 Levels High,
1 Level Down.

MODEL LS3h1d5w
3 Levels High,
1 Level Down.

MODEL LS2h2d5w
2 Levels High,
2 Levels Down.

MODEL LS3h2d5w
3 Levels High,
2 Levels Down.

Layout
PARKPLUS LS Lift-Sliding System can be arranged in single or tandem arrays, with or without Pit, on either side of a drive aisle.

<table>
<thead>
<tr>
<th>TYPE</th>
<th>Sedan</th>
<th>SUV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pit Depth</td>
<td>7'-3&quot;</td>
<td>9'-0&quot;</td>
</tr>
<tr>
<td>On Grade</td>
<td>6'-8&quot;</td>
<td>6'-8&quot;</td>
</tr>
<tr>
<td>Above Grade</td>
<td>5'-2&quot;</td>
<td>6'-8&quot;</td>
</tr>
</tbody>
</table>

*Custom dimensions available.*

Tandem Layout
Lift-Sliding Semi-Automated Parking System

OUR GLOBAL FOOTPRINT

CALL US: 8-444-PARKPLUS

PARKPLUS, INC. HEADQUARTERS
83 BROAD AVENUE, SUITE 2
FAIRVIEW, NJ 07022

PARKPLUS CALIFORNIA
8640 TAMARACK AVENUE
LOS ANGELES, CA 91352
CSLB# 1018794

PARKPLUS FLORIDA, INC.
1111 OLD GRIFFIN ROAD
DANIA BEACH, FL 33004

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