LShd
LIFT-SLIDING
Semi-Automated Parking 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.

Entire assembly comes pre-wired 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"
- Width of Stall: 8'-2 1/2"
- Height of Unit: (Determined by Model)
*Excluding column dimensions of structural framework
*Custom Dimensions Available

Operation:
- Electric 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 (500Amp) – 60HZ
- All control wiring is a Class 2 Circuit 24V
- Power & Electrical specifications vary per Product Model

Cost-Effective, Multi-Layered Parking Solution
In-house Design, Manufacturing, Installation & Service
Minimal Moving Parts – Reduced Maintenance
Self Parking – No Attendant Required

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

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.

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 by local fire code. 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.

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 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.

Application
- Lift-Sliding System can be installed in attended/valet applications and self-park applications.

Approvals
- OTCR Certified, City of New York
- LAETL Approved, LARRP/California, City of Los Angeles
- ISO compliant
- California Inclusive Code Compliant
- Miami-Dade County Compliant
- Approved in Multiple U.S. Cities

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

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* System shown at capacity

ADDITIONAL INFORMATION

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Fire Sprinklers
Outdoor: 1. Most cities do not require fire sprinklers. 2. May need to conform to additional zoning regulations and building code requirements. Indoor: 1. Installation shall be in a sprinklered garage. In tandem array, additional sprinkler requirements may apply. 2. Sprinkler Plans filed and approved by local municipality. 3. Sprinkler system designed as required by NFPA 13 and local building codes. 4. Clear building height within parking area must match height of equipment plus additional requirements for adequate coverage of fire sprinklers.

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*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: 5 HP – 5 HP
Travelling Motor: 0.55 HP
Electrical
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

Applications
Lift-Sliding System can be installed in attended(valet applications and self-park applications.
- Multi-Family Residential Buildings
- Indoor & Outdoor Installations
- Low & High Rise Buildings
- Commercial Buildings
- Surface Lots

Cost-Effective, Multi-Layered Parking Solution
In-house Design, Manufacturing, Installation & Service
Minimal Moving Parts – Reduced Maintenance
Self Parking – No Attendant Required

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

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 feature ensures normal operation of each cycle.

1. Stand by mode. Vehicle requested.
2. Slide-motion initiated.
3. Vehicle presented at ground level.

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

8-444-PARKPLUS
**PRODUCT MODELS**

**MODEL LS2h0d**

2 Levels High, 0 Levels Down.

**MODEL LS2h1d5w**

2 Levels High, 1 Level Down.

**MODEL LS2h2d5w**

2 Levels High, 2 Levels Down.

**MODEL LS3h0d**

3 Levels High, 0 Levels Down.

**MODEL LS3h1d5w**

3 Levels High, 1 Level Down.

**MODEL LS3h2d5w**

3 Levels High, 2 Levels Down.

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**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>
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</table>
| Pit Depth    | 7'-'-3"| 9'-'-0"
| On Grade     | 6'-'-8"| 6'-'-8"
| Above Grade  | 5'-'-2"| 6'-'-8"

*Custom dimensions available.

Tandem Layout
PRODUCT MODELS

MODEL LS4h0d5w

4 Levels High, 0 Levels Down.

MODEL LS5h0d5w

5 Levels High, 0 Levels Down.

MODEL LS4h1d5w

4 Levels High, 1 Level Down.

MODEL LS5h1d5w

5 Levels High, 1 Level Down.

MODEL LS4h2d5w

4 Levels High, 2 Levels Down.

MODEL LS5h2d5w

5 Levels High, 2 Levels Down.
HIGH DENSITY PARKING SYSTEMS FOR 50 YEARS

MECHANICAL STACKERS
ATTENDED SYSTEMS FOR MULTIPLE LEVEL BASIC STACKING

AUTOMATED SYSTEMS
ADVANCED TECHNOLOGIES FOR ROBOTIC PARKING SOLUTIONS

SEMI-AUTOMATED SYSTEMS
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CREATIVE SOLUTIONS FOR CUSTOM DESIGN & EXPOSURE

OUR GLOBAL FOOTPRINT

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