MECHANICAL ATTENDED SYSTEMS FOR BASIC STACKING

AUTOMATED ADVANCED TECHNOLOGIES FOR ROBOTIC PARKING SOLUTIONS

SEMI AUTOMATED HYBRID DESIGN FOR SELF-PARK OR ATTENDED STACKING

CUSTOM UNITS CREATIVE SOLUTIONS FOR CUSTOM DESIGN & EXPOSURE

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OUR GLOBAL FOOTPRINT

AGV AUTOMATED GUIDED VEHICLE Parking System
The PARKPLUS Fully Automated Guided Vehicle (AGV) Parking System consists of free-roaming, battery-operated, omni-directional robots using traffic management software, markers, vision systems and lasers for self-navigation to manage the automated storage and retrieval of vehicles.

The PARKPLUS AGV Parking System is designed to be installed in an enclosed parking vault. In addition to the parking superstructure and storage area, the AGV system includes 6 main components:

2. Loading Zone: Entry/exit area where users leave/retireve vehicle.
3. Vertical Reciprocating Conveyor (VRC): Car lift to transport vehicle between floors/levels.
5. Vehicle Storage Tray: Platform vehicles park on. Handled by AGV to transfer vehicle from/to storage vault.
6. Tray Accumulator: Stacks trays to maximize storage.

System can be installed in multiple regular and irregular configurations on multiple levels above, on and below grade to maximize parking efficiencies. Basic system design and components are determined by peak demand throughput requirements of the parking system.

ASA requirements can be accommodated. 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
- Vans
- Custom solutions available

**Specifications**

- Maximum Vehicle Load: 6,000 lbs
- Width of Stall: 7'-4" min
- Clearance: 6'-6" to 8'-2"

**Control:** Touchscreen Kiosk, Mobile App, Key Fob (Optional), Remote Control (Optional), Maestro™ Traffic Management Software

**Power & Electrical**

- 208 Volt, 3 Phase Power
- Approx. 300-1000 Amps depending on system size and components
- Contact PARKPLUS for project-specific requirements.

**Safety**

System may be equipped with Visual and Audible alarms and Emergency Stops. Sensors for vehicle size and positioning ensure system will not initiate unless physical parameters are met. Motion detectors and lasers detect obstructions within system and stop operation in emergency. System requires operator reset to check safety and obstruction removal. Sensor signals, door signals and PLC program protection for sequence operation ensure function as programmed. System includes manual operation methods for system override. System is equipped with limit switches which limit motions to correct system levels and positions. System can be equipped with a secondary safety gate system. System is equipped with 24/7 Video Monitoring.

**Fire Sprinklers**

This system is designed to operate between 50° and 105°F.

**Temperature**

This system is designed to operate in humidity no higher than 75%.

**Humidity**

This system is designed to operate in humidity no higher than 75%.

**Loading**

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

**Warranty & Service**

12-month Standard Manufacturer’s Warranty. Extended warranty and Service Maintenance Agreement is available at time of purchase.

**Suitable for**
- OTCR Compliant, City of New York
- Los Angeles County Approved
- ISO Compliant
- California Seismic Code Compliant
- Miami-Dade County Compliant
- Approved in multiple US cities

**Operation**

Vehicle is always parked on a pallet. AGV transfers pallet containing vehicle to and from storage area, or may transfer it to a VRC for storage on another level. User will always park & retrieve car from Loading Zones.

**APPLICATIONS**

- ADG System can be installed in self-park applications:
  - Multi-Family Residential Buildings
  - Indoor Installations
  - Low & High Rise Buildings
  - Commercial Buildings

**ADVANTAGES**

- In-house Design, Manufacturing, Installation & Service
- Intelligent Traffic Management Software
- Flexible Floor Plan Configuration
- 24/7 Video Monitoring & Remote Access

**ADDITIONAL INFORMATION**

**Floor Plan Configuration**

- Entry/Exit: User parks and exits vehicle in Loading Zone
- Operation: System is activated by Touchscreen Kiosk/Mobile App
- Storage: Vehicle is automatically parked by AGV
- Retrieval: Vehicle is presented to Loading Zone when requested

**Contact**

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