**Shuttle / Cart Parking System**

The **Shuttle or Cart Parking System** is an advanced pallet-based automated parking solution that combines the benefits of **elevator lifting and shuttle transfer** for highly efficient vehicle storage and retrieval. Unlike conventional stack or puzzle systems, this design allows vehicles to be moved **vertically and horizontally at the same time**, drastically reducing parking and retrieval cycles.

Its **modular structure** makes it adaptable to both small and large-scale projects — from residential complexes to commercial hubs such as shopping malls, office towers, and airports. The system allows **multiple shuttles to operate simultaneously**, ensuring smooth traffic flow and eliminating waiting queues.

With the ability to integrate **entry/exit lifts**, the Shuttle System is particularly suitable for locations where **land cost is high** and every square meter must be optimized for maximum parking density.

**Key Features**

* **Fast Operation:** Vehicles are moved vertically and horizontally at the same time, cutting parking/retrieval time by nearly **50%** compared to conventional systems.
* **Flexible Layout:** Can be configured to suit rectangular or irregular land plots.
* **Scalable Capacity:** Easily expandable for large-scale projects without disrupting existing operations.
* **High User Convenience:** Entry and exit lifts allow smooth traffic management and minimal driver involvement.
* **Smart Automation:** Integrated with RFID, smart card, or mobile app-based operation for seamless user experience.
* **Safety First:** Equipped with sensors, emergency stop functions, and anti-collision technology.

**General Specifications**

* **System Length:** 5450 mm – 5700 mm
* **System Width:** 2700 mm – 3700 mm
* **System Height:** 2000 mm – 6500 mm
* **Car Weight Capacity:** Up to 2,500 kg per vehicle
* **Operation Mode:** Automated shuttle with elevator integration
* **Entry/Exit Points:** Customizable — front, rear, or side depending on site layout