PALLETLESS

AUTOMATED PARKING SYSTEM

APS Satellite®

SYSTEM OVERVIEW

Westfalia's palletless parking system utilizes our reliable Satellite® technology, which adjusts to a vehicle's wheelbase for precise transport from the transfer area to a Transfer Car (T-Car). The T-Car moves vehicles horizontally to designated parking positions, where the Satellite completes the parking process.

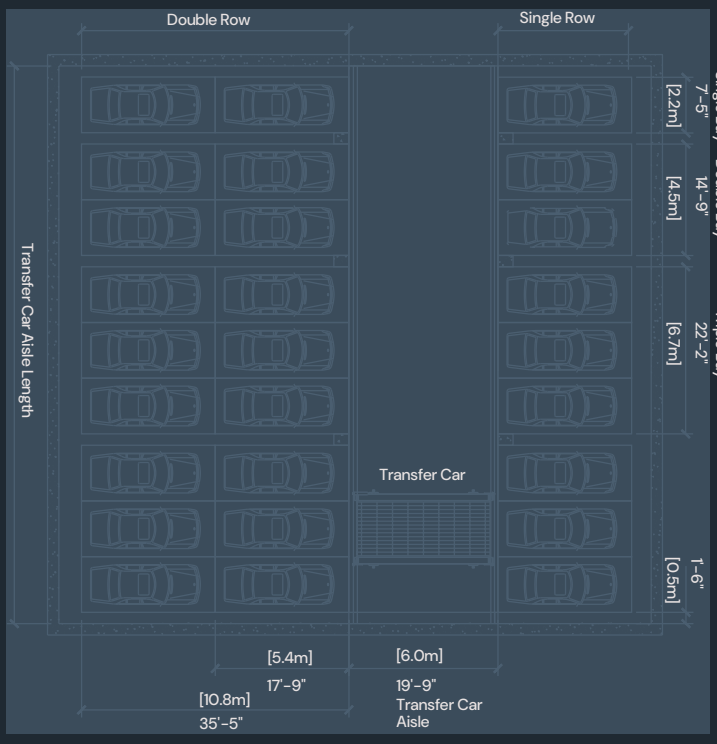
Unlike pallet-supported systems, vehicles are stored directly on concrete or steel decks, optimizing space and enhancing throughput. This design allows for flexible integration with various building structures, offering architects greater design freedom.

The user experience is streamlined and comfortable, with well-lit, welcoming transfer areas where vehicles are parked and retrieved. Developers can elevate this experience with intuitive touchscreens or mobile apps for easy vehicle retrieval, providing a seamless and memorable interaction for end users.

APPLICATION

Designed for versatile applications, our system operates efficiently above or below ground, ensuring maximum throughput and high availability. Ideal for projects with low floor-to-ceiling heights, it delivers reliable performance across diverse environments.

Vehicles may be stored in single, double, or triple row configurations based on column spacing or other architectural constraints. Configurations can vary by level.



SYSTEM COMPONENTS

Transfer Cars or "T-Cars" move vehicles horizontally within the parking system, utilizing on-board Satellite technology to park and retrieve vehicles from designated positions. The number of T-Cars is flexible and can be adjusted based on the required system throughput. The Satellite consists of two independent components that adjust their clamp arms to accomodate various vehicle wheelbases, ensuring flexibility in handling different car sizes.

The Transfer Area is where users park and retrieve vehicles. It can be designed for entry, exit, or both, and may be positioned on one or both sides of the system. Typically the size of a residential garage, transfer areas are designed to be safe and welcoming, featuring sensor devices and large LCD displays that provide clear parking instructions.

Lifts are used to move vehicles vertically within the system. They can be located in the transfer areas, at the ends of the parking aisles, or adjacent to the T-Car aisle, depending on system design.

Turntables rotate vehicles 180° within the system, either in the transfer areas or other locations, to ensure a smooth and easy exit for the user.

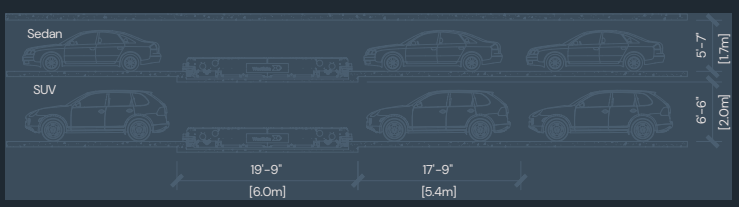
WePlug® EV Charging System is a fully automated, DC fast-charging system designed to save space. It utilizes an overhead gantry and vision system to intelligently locate and connect to an adapter to charge EVs regardless of port position, allowing it to service multiple electric vehicles sequentially.

Savanna.NET® Parking Control Software manages and orchestrates vehicle movements, ensuring efficient parking and retrieval. Built on Microsoft® .NET technology, it supports ongoing software updates to maintain system performance.

CONFIGURATION OPTIONS

The system supports one or two vehicle rows per side of the T-Car aisle, with a three-row option for long-term storage. T-Car aisle length is fully adjustable to match the building layout.

Parking level heights are adaptable to suit a mix of SUVs, sedans, or both, providing complete flexibility based on customer specifications.



Westfalia

DISCOVER MORE ONLINE

Scan to see our technology in action and explore our full range of automated parking solutions. For the complete scope of our automation expertise, please visit **WestfaliaUSA.com** or reach out to our team at **Sales@WestfaliaUSA.com.**