WestfaliaX®

AUTOMATED PARKING SYSTEM —

PALLETLESS

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

> Above or below ground

> Maximizing system throughput

> Office, residential, medical, public, or mixed use development

> Low floor-to-celing heights

> High availability

CONFIGURATION OPTIONS

The system can be configured with one or two rows of vehicles on either side of the T-Car aisle, with an option for three rows in long-term storage situations. The length of the T-Car aisle is highly flexible and can be adjusted to fit the building layout.
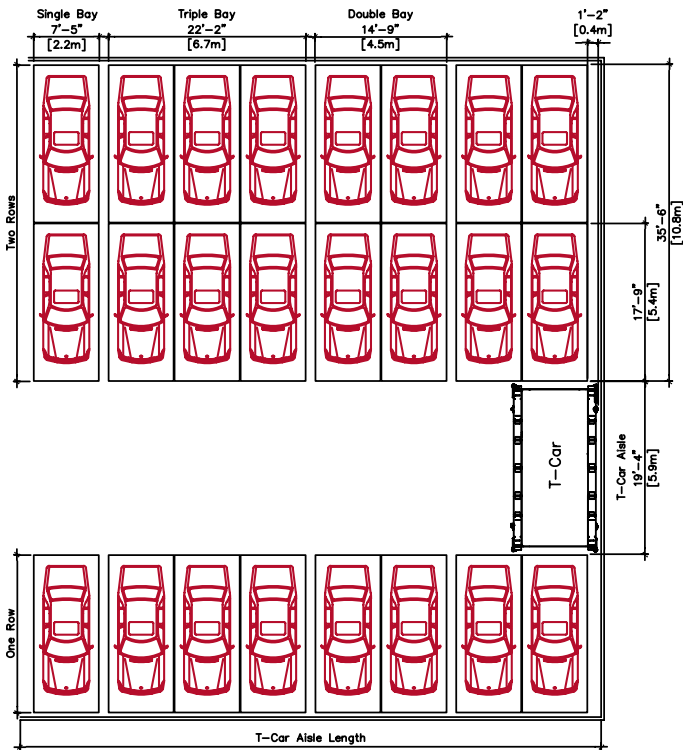
Vehicles can be stored in single, double, or triple bay configurations, depending on the structural column spacing or other architectural constraints. This configuration can vary between levels to accommodate different structural requirements.
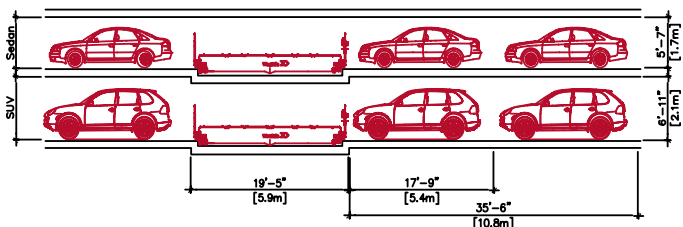
Parking level heights are adaptable to suit a mix of SUVs, sedans, or both, providing complete flexibility based on customer specifications.

SYSTEM COMPONENTS

Transfer Car (T-Car): 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

Transfer Area: 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.

Lift: 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.

Turntable: Turntables rotate vehicles 180° within the system, either in the transfer areas or other locations, to ensure vehicles are positioned for a smooth exit. This feature enhances user comfort by positioning the vehicle for an easy drive-out experience.

Savanna.NET® Parking Control Software: Savanna.NET® 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.