

The WÖHR SpaceManager in combination with car park systems

Many urban car parks are not operating at full capacity and have a mixed user base, including long-term parkers, residential and commercial tenants, car-sharing users, etc.

The aim is to combine the utilisation of car parks with different user groups through dynamic allocation of parking spaces and to avoid vacancies in the car parks. It makes no difference whether the allocation is carried out using parking systems or conventional parking spaces.

Car parking systems are not limited to individual users with fixed-allocation spaces. To make parking systems accessible to a wide range of user groups – such as short- and long-term parkers, staff parking spaces and visitors – WÖHR has developed a comprehensive parking management system – the WÖHR SpaceManager – which integrates WÖHR parking systems.

The concept is simple: the parking spaces are connected to the WÖHR SpaceManager.

The SpaceManager offers users vacant parking spaces and reduces vacancy rates caused by users being away – for example, on holiday or on business trips – whilst enabling better utilisation of the underground car park, as more users can be registered than there are parking spaces available.

This provides added value for users, investors and operators. Different user groups and billing models can be defined – including electric vehicle charging! Parking space configurations (e.g. parking space dimensions or electric vehicle charging facilities) can be booked via the booking platform.

The office and residential building 'THE PULSE' in Amsterdam, which opened in early 2025, serves as a pilot project for the integration of a parking system into the WÖHR SpaceManager in an underground car park. Here, 124 parking spaces were created using 13 WÖHR Combilift systems (models 542 and 543), which were connected to the WÖHR SpaceManager. This project has established a link between private and semi-public parking, as well as car-sharing, for a diverse group of users.

The WÖHR SpaceManager can be connected to the WÖHR product ranges Combilift, Combiparker and the Bikesafe bicycle parking system. Connection to fully automated systems is also possible. Retrofitting as part of a refurbishment of the control systems for the mentioned product groups and fully automated systems is also feasible.

The concept:

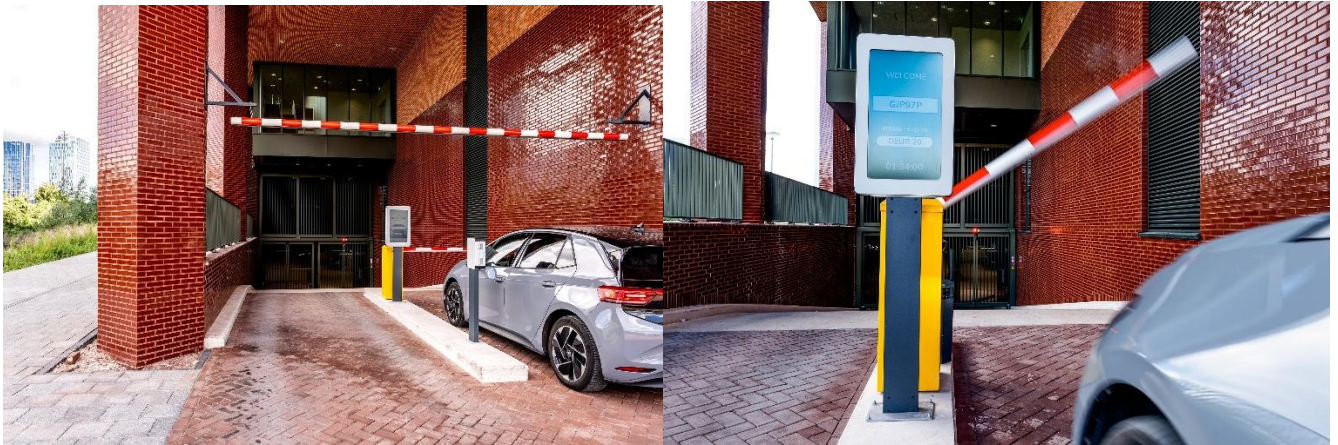
WÖHR parking systems are connected via software to the WÖHR SpaceManager and the digital parking space management cloud. Users book a parking space via the booking platform and receive a QR code or enter their number plate.

On entry, the number plate is recognised at the barrier or the QR code is scanned at the terminal at the entrance. The monitor displays inside the underground car park guide the driver to their allocated parking space. To collect the vehicle, the driver again enters their number plate or scans the QR code (and makes payment if applicable) at a terminal.

A video of the entire process and the project video 'THE PULSE' can be found here:

<https://transfer.woehr.de/index.php/s/M5Aq2qp6LzGkQnb>

Detailed description:



Employees (long-term parkers) and car-sharing vehicles are registered on the booking platform with their licence plate numbers. Visitors can generate a QR code via the booking platform. The camera recognises the licence plate and the barrier opens. An edge installation ensures the functionality of the system in the event of an interruption to the internet connection.



Once the barrier has opened, monitors on the Combilifts show the driver which parking space has been allocated to them based on their number plate. The car park gate is already open and ready for entry. Once the vehicle has been parked, the driver leaves the system and closes the gate using the green button on the control panel.



To collect the vehicle, the driver goes to the collection area of the underground car park. Here there is a control panel where the licence plate number is entered. After entering the number, the number of the gate where the vehicle can be collected appears.

To ensure personal safety, users must close the gate again using the control panel on the system after exiting the system. If the user has not closed the gate, they will be reminded again on the display when exiting the car park to close the gate of the parking system. The exit barrier will not open until the gate is closed.



The barrier automatically recognises the car's number plate and opens.

If a regular user uses the facility with a different car than usual, they can enter and exit using a QR code instead of number plate recognition.

An integrated emergency call button with an intercom system for assistance is implemented in the terminals.

The pilot project 'THE PULSE' in Amsterdam

