THE LENNOX

PARRAMATTA, SYDNEY

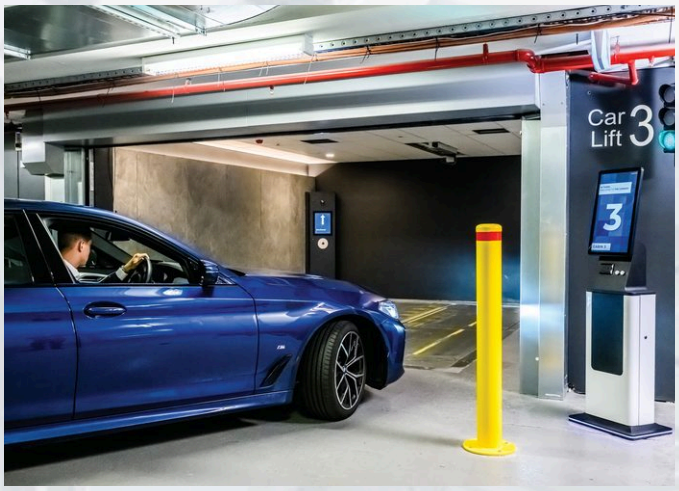
327 parking spaces. One intelligent solution.
A smarter way to park in the city.



LÖDIGE INDUSTRIES

AUSTRALIA'S LARGEST AUTOMATED PARKING SYSTEM

A high-density parking solution for 327 vehicles, designed to reduce excavation requirements while maximising valuable space within a premium residential development.



DESIGN

Making every metre count.

THE LENNOX is a 46-storey luxury residential tower in the heart of Parramatta, comprising 413 apartments alongside premium amenities including an indoor pool, fitness facilities, a Zen Garden and concierge services. Originally designed by Johnson Pilton Walker (JPW), with design development and construction documentation by Marchese Partners, THE LENNOX is a distinctive residential landmark that reconnects Parramatta's city centre with its riverfront.

Providing sufficient parking within the constrained site presented a significant design challenge. Instead of relying entirely on conventional basement parking, the building's nine-level basement combines three conventional levels with six levels of fully automated parking.

Lödige Industries' RESPACE SHIFTER system provides 327 parking spaces within a compact footprint by reducing the space normally required for ramps, driving aisles and pedestrian circulation. The automated solution allows up to 60% more vehicles to be accommodated within the same space compared with conventional parking structures.

By using underground space more efficiently, the parking concept supports the wider development strategy: providing the required parking capacity while protecting valuable building volume for the residential and amenity functions that define THE LENNOX.

BUILD

Less Excavation. More Development Value.

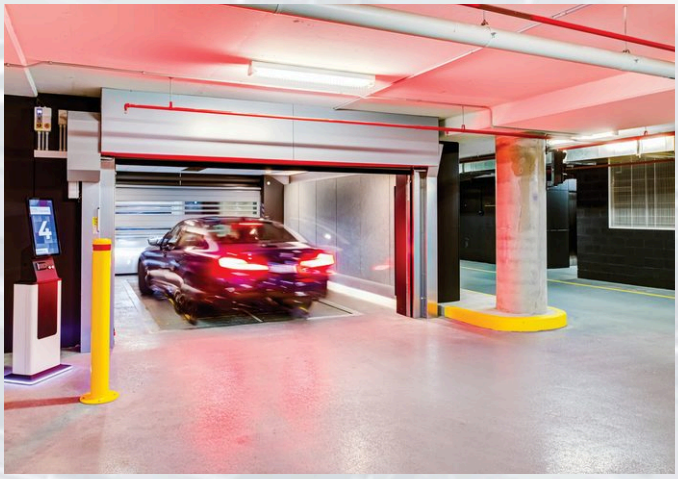
Building below ground in Sydney comes with a particular challenge: rock excavation. At THE LENNOX, the sedimentary rock beneath the site and its proximity to the Parramatta River made the depth and volume of excavation a challenging factor in both construction complexity and cost.

Thanks to the space-saving design of the automated system, all six automated parking levels fit within an excavation depth of less than 15 metres.

Within the basement, Lödige Industries integrated five transfer cabins with automated vertical and horizontal vehicle transport and robotic SHIFTER technology. An equivalent conventional car park would have required around 28 metres, almost twice the excavation depth. Thus, the reduced excavation translated directly into significant cost savings and reduced the overall impact on the building.

Work on site began in 2020. Despite the challenges of the COVID-19 pandemic, the automated parking system was successfully delivered on schedule in 2021.

At THE LENNOX, automated parking therefore became more than a capacity solution. Its compact design was an integral part of the construction strategy, demonstrating how automation can overcome the spatial and economic constraints of building below ground in Sydney.



"The automated parking technology from Lödige Industries offers both the innovative functionality and luxurious user experience we were keen to create and the performance we needed to see."

Adrian Liaw –
President of Aoyuan (now NOVM)

MAINTAIN

Keeping the system moving.

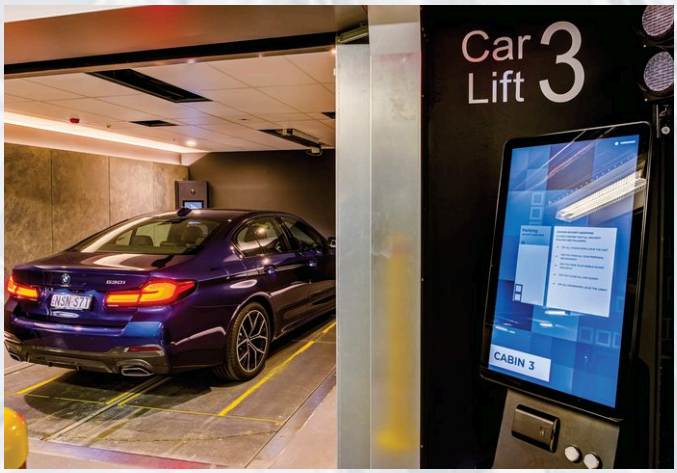
The parking system at THE LENNOX is monitored 24/7. Visual and acoustic alerts flag irregularities immediately, and Lödige Industries Customer Care Center provides remote diagnosis and troubleshooting as the first response. If on-site intervention is required, a local on-call technician is dispatched.

Around 80–90% of service issues are solved remotely, minimising the need for on-site intervention and operational disruption.

Regular preventive maintenance is complemented by weekly reporting, so recurring issues are identified and addressed systematically. Operational flexibility helps minimise the impact of individual faults: individual parking positions can temporarily be taken out of service, while the flow of the five transfer cabins can be adjusted if required.

The system also continues to evolve. Since commissioning, additional sensors have been installed to detect open car trunks, and targeted control software updates have been implemented based on operational experience.

Continuous monitoring, remote support, local response and ongoing optimisation combine to keep everyday operation reliable.



OPERATE

Intelligent movement at every level.

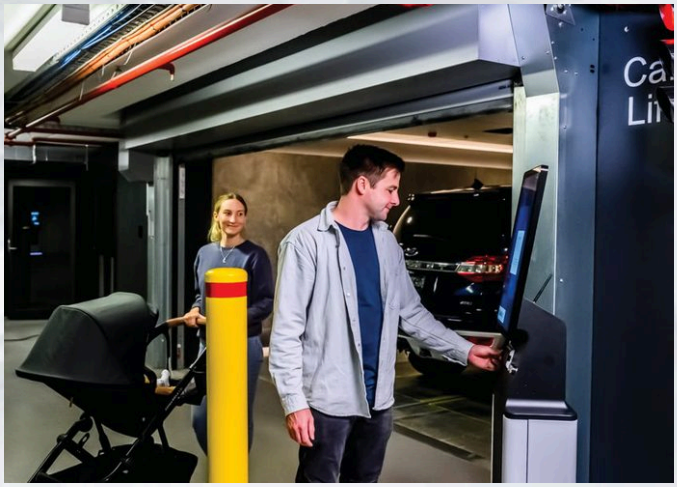
Since entering operation in 2021, THE LENNOX automated parking system has completed more than 375,000 parking and retrieval operations, providing a substantial track record in everyday residential use.

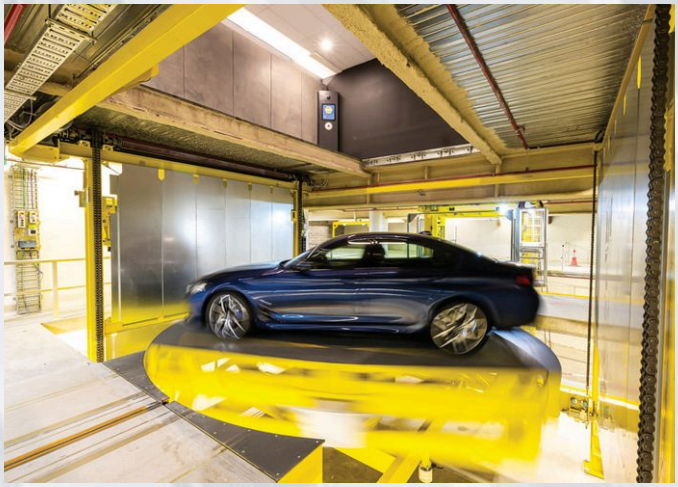
Five transfer cabins connect residents with 327 parking spaces across six automated levels. Behind the scenes, Lödige Industries' intelligent control software coordinates vehicle movements and calculates efficient storage positions and transport routes throughout the system.

During a representative week in May 2026, the system handled more than 1,200 parking and retrieval movements, averaging around 177 movements per day.

Operational flexibility keeps vehicles moving even when individual areas require attention. The five transfer cabins can be managed according to demand, and individual parking positions can temporarily be taken out of service without stopping the entire system.

Maximising parking capacity within a compact footprint, accommodating up to 60% more vehicles in the same space.





LODIGE INDUSTRIES

PARRAMATTA,
SYDNEY

Creating more space for premium living while reducing excavation requirements through intelligent automated parking technology.

USER EXPERIENCE

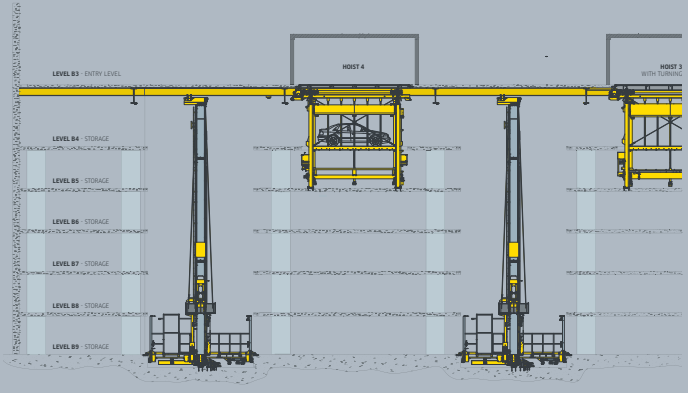
Parking designed around the resident.

The automated parking system forms part of the premium residential experience at THE LENNOX. Rather than driving through multiple underground levels, searching for a space and walking back through the garage, residents simply leave their vehicle in one of five transfer cabins. The automated car park system takes less than a minute to do its safety checks and send the vehicle into the underground system to be parked automatically after users have registered themselves and left the cabin with all their belongings.

With a payload of up to 2.5 tonnes per vehicle, the facility can accommodate common passenger cars and SUVs.

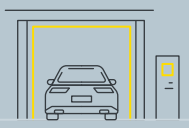
When residents need their vehicle, they request retrieval, and the vehicle is typically returned to a transfer cabin in less than 180 seconds.

The result is a parking experience designed around convenience rather than the infrastructure behind it: no searching for spaces, no navigating parking levels and no walking through the storage area. Simply safe, dry, and convenient for all types of users.

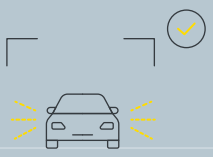


HOW IT WORKS

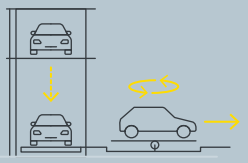
1. PARK THE VEHICLE



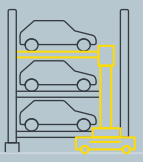
2. VEHICLE IS SCANNED



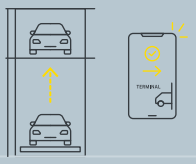
3. AUTOMATED TRANSPORT



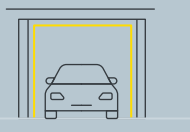
4. COMPACT ROBOTIC STORAGE

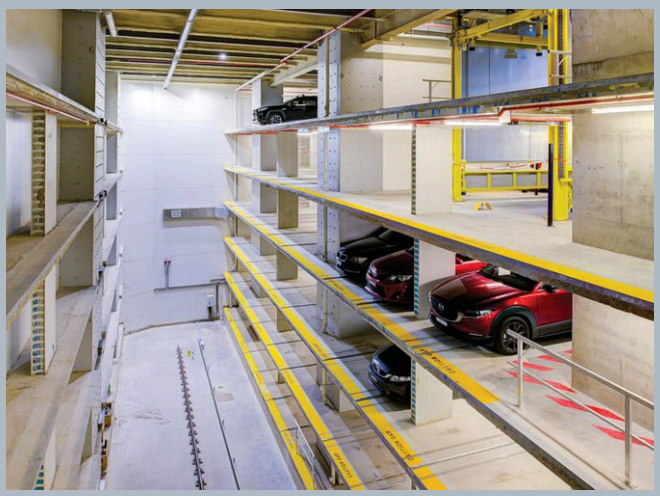


5. VEHICLE RETRIEVAL



6. VEHICLE DELIVERED





THE LENNOX

Fully Automated Parking System
RESPACE SHIFTER



375,000+
parking and retrieval operations



60 SECONDS
TIME TO PARK



LESS THAN 180 SECONDS
TIME TO RETRIEVE

- **Location**
  Parramatta, Sydney, Australia
- **Completion**
  2021
- **Use**
  Residential Parking Facility
- **Capacity**
  327 Parking Spaces
- **Levels**
  6 Automated Underground Levels
- **Transfer Cabins**
  5
- **Max. Vehicle Weight**
  2.5 Tonnes
- **System Depth**
  14.3 Metres

More information.
www.lodige.com

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