

Automated Parking Facility for Ultra-compact Electric Vehicles

EV ECO Park™



 **GIKEN**

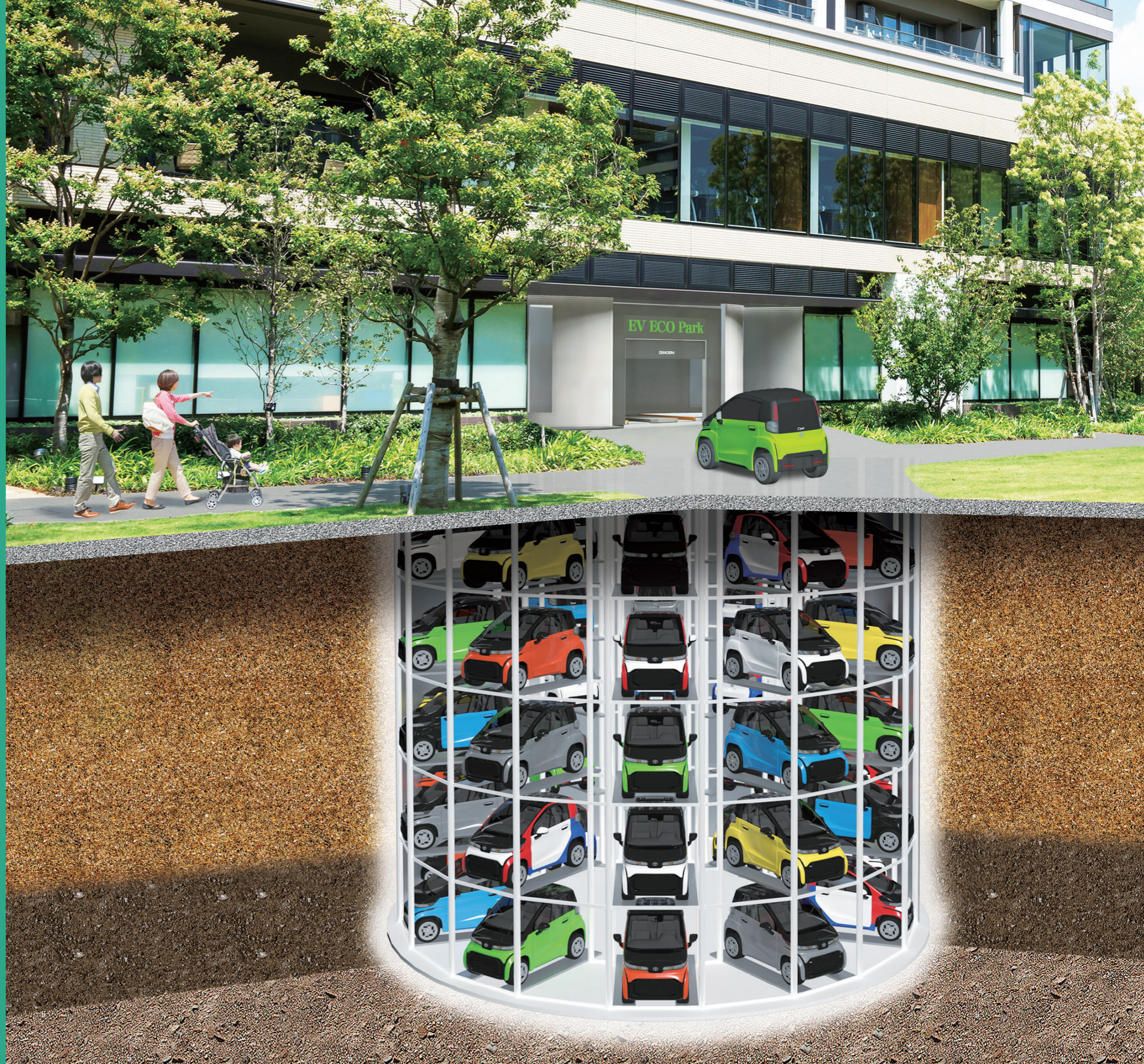
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for Ultra-compact Electric Vehicles
- EV ECO Park

EV ECO Park™

Culture Aboveground, Function Underground

The EV ECO Park system is designed to address two major issues faced by ultra-compact EV owners - lack of parking space and charging facilities. With its space-saving, high-capacity and speedy delivery features, this system is an ideal solution for those who need to charge their vehicles on the go. By offering such a convenient and eco-friendly service, the system is also contributing to the cause of carbon neutrality.

You can watch a video of the EV ECO Park.





Sustainability

Innovative approach to achieving carbon neutrality and sustainable community

As Smart Cities, Super City, and SDGs initiatives gain more attention for resolving social and urban issues, GIKEN Group strives to offer more than just the “EV ECO Park” hardware product. We also provide a comprehensive package that includes post-installation operations and services such as car sharing, delivery, and pick-up services. By tailoring the services to address the specific challenges of each community, GIKEN aims to create comfortable and secure communities while also contributing to carbon neutrality.

Speed

Creation of Comfortable User Environments

With speedy retrieval with an average time of 19.7 seconds (a shortest time of 17.2 seconds), it conveniently charges vehicles while parked, which solves the issues of limited parking space and charging facilities. This creates a more comfortable and user-friendly experience, particularly for ultra-compact EVs.



Highly efficient storage/retrieval operation

Both entering and existing EV ECO Park can be handled without the hassle of backing up. In addition, vehicles are stored in a radial pattern to improve transfer efficiency and realise amazingly rapid storage and retrieval.

Deposit

Drive the vehicle forward into the entry / exit booth and place or insert the parking card at the operation panel outside the booth to commence storage.

1 The machine detects the vehicle and the door opens.



2 Check for safety and start the storage operation.



3 The vehicle will be stored automatically.



Retrieval

Place or insert the parking card and start the retrieval operation. Drive the vehicle forward to exit the booth.

1 Place or insert the parking card and start the retrieval operation.



2 The vehicle will be retrieved automatically.



3 Drive the vehicle forward and complete the retrieval.



Chargin functions (non-contact)

When parking the vehicle, you can easily charge it by performing a simple operation. The standard specification is 200V, but it can also be changed to 100V.

1 Set the connector to the mechanical device.



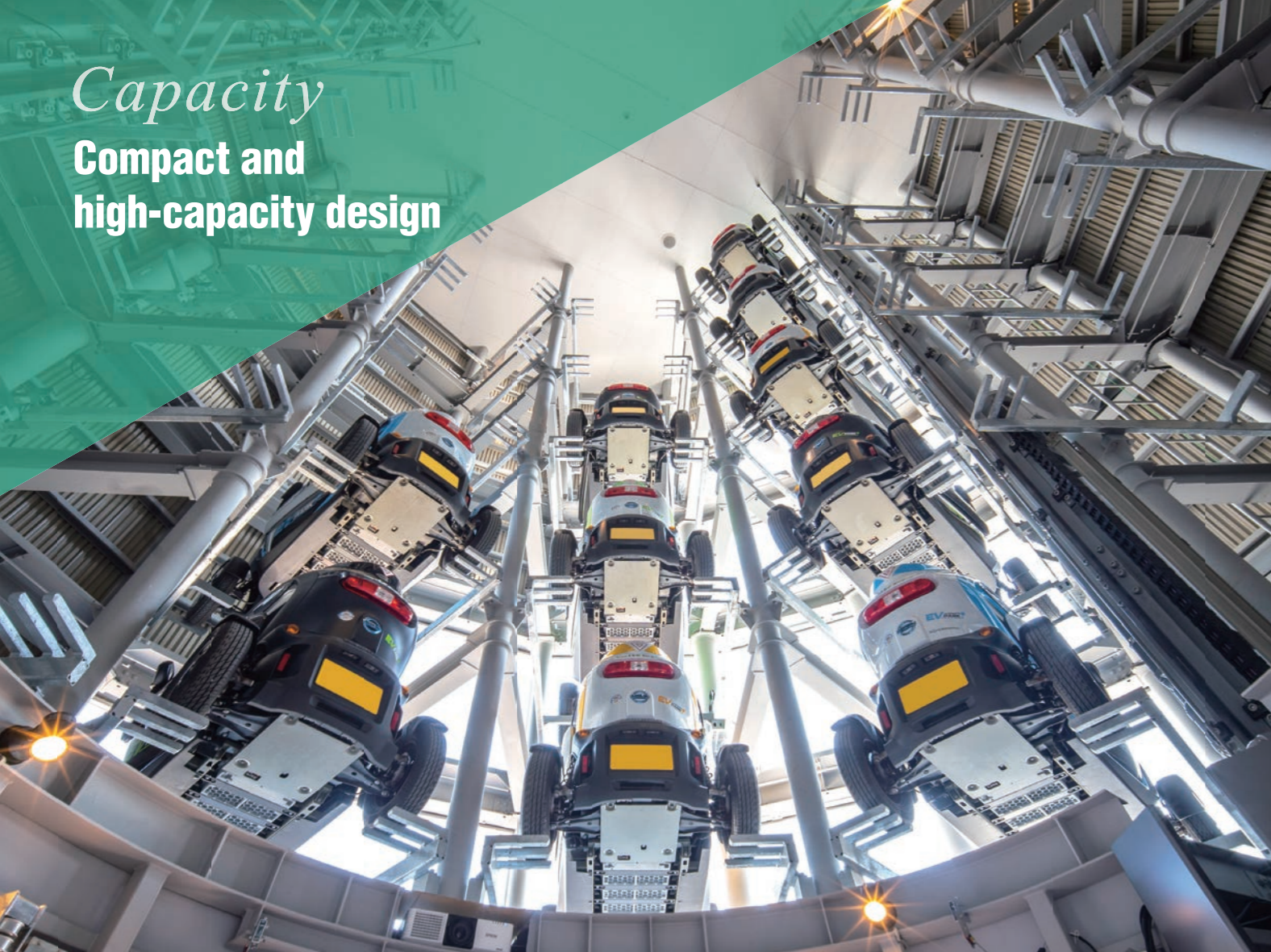
2 Connect the cable to the vehicle.



3 Automatically connect to the charging connector when the vehicle is entered.



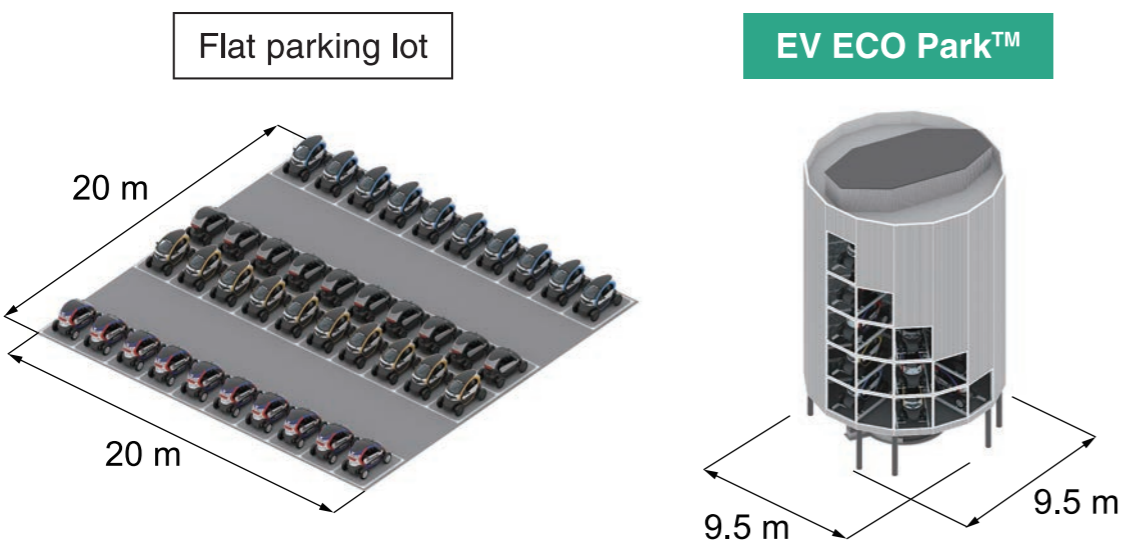
Capacity
Compact and high-capacity design



Design
High designability

Five times the capacity of a typical flat parking lot

If to park 40 ultra-compact EVs at a typical flat parking lot, it will require about 400 square meters of land. However, the EV ECO Park accounts for only about 800 square meters, which is one-fifth of this. (a cylindrical shape with a diameter of 9.5m and a height of 15m) Therefore, even in locations where it is difficult to secure a large lot of land, a high-capacity parking lot can be installed, and land can be used effectively.



A parking facility that adds colour to the city with exterior design and lighting

The exterior appearance and number of windows can be freely arranged, making it a stylish and attractive car park. Also, depending on the location and site conditions, an underground model can be selected that creates more space above the ground by embedding parking space underground.



Safety

High Design Safety

Equipped with a full range of safety systems including various types of sensors and a camera that monitors the inside of the entry/exit booth.



Observation

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Guidance Display

Displays guidance and information to assist the operation.

Entry Detection Sensor

Detects passage of people and vehicles into/out of the booth for proper use.

Motion Dectectors

The operation will be halted until the sensor detects that people have exited the booth.

Earthquake Detection Sensors

An earthquake exceeding 100 gals will trigger an automatic halt to prevent secondary disasters.

GIKEN LTD. Kochi Head Office

Visit us to see and learn more about the EV ECO Park, ECO Park and Mobile ECO Cycle.

3948-1 Nunoshida, Kochi-shi, Kochi

Access: 10 min drive from JR Kochi Station / 20 min drive from Kochi Ryoma Airport.



Prepared by GIKEN LTD, based on "Fundamental Geospatial Data" (Geospatial Information Authority of Japan) (<https://fgd.gsi.go.jp/download/menu.php>)



For inquiries about visits, please contact us in advance.

GIKEN LTD.

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Specifications

Mechanism	Elevator (Rotating)	
Capacity	40 Vehicles (Standard Spec.)	
Operation Method	IC cards, IC tags	
Average Vehicle Delivery Time	19.7 Sec.	
Vehicle	Total Width	Max. 1300 mm
	Total Width + Side Mirrors	Max. 1550 mm
Measurement	Total Height	Max. 1600 mm
	Total Length	Max. 2500 mm
Requirements	Weight	Max. 750 kg

*Product specifications may change without notice.

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