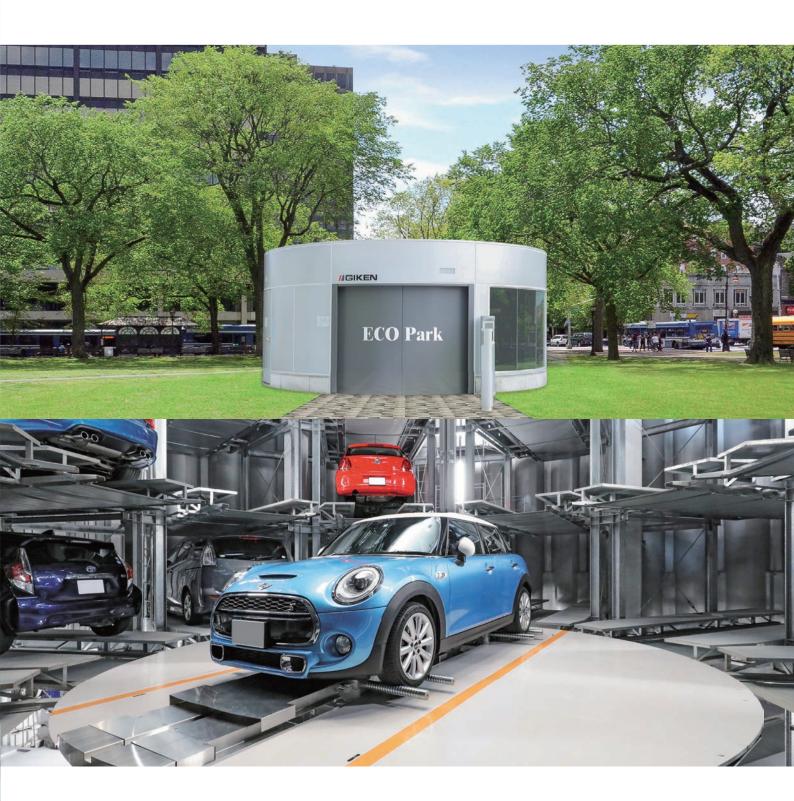
## **Automated Parking Facility ECO Park**

# ECO Park





Automated Parking Facility ECO Park

# ECO Park

# **Culture Aboveground, Function Underground**

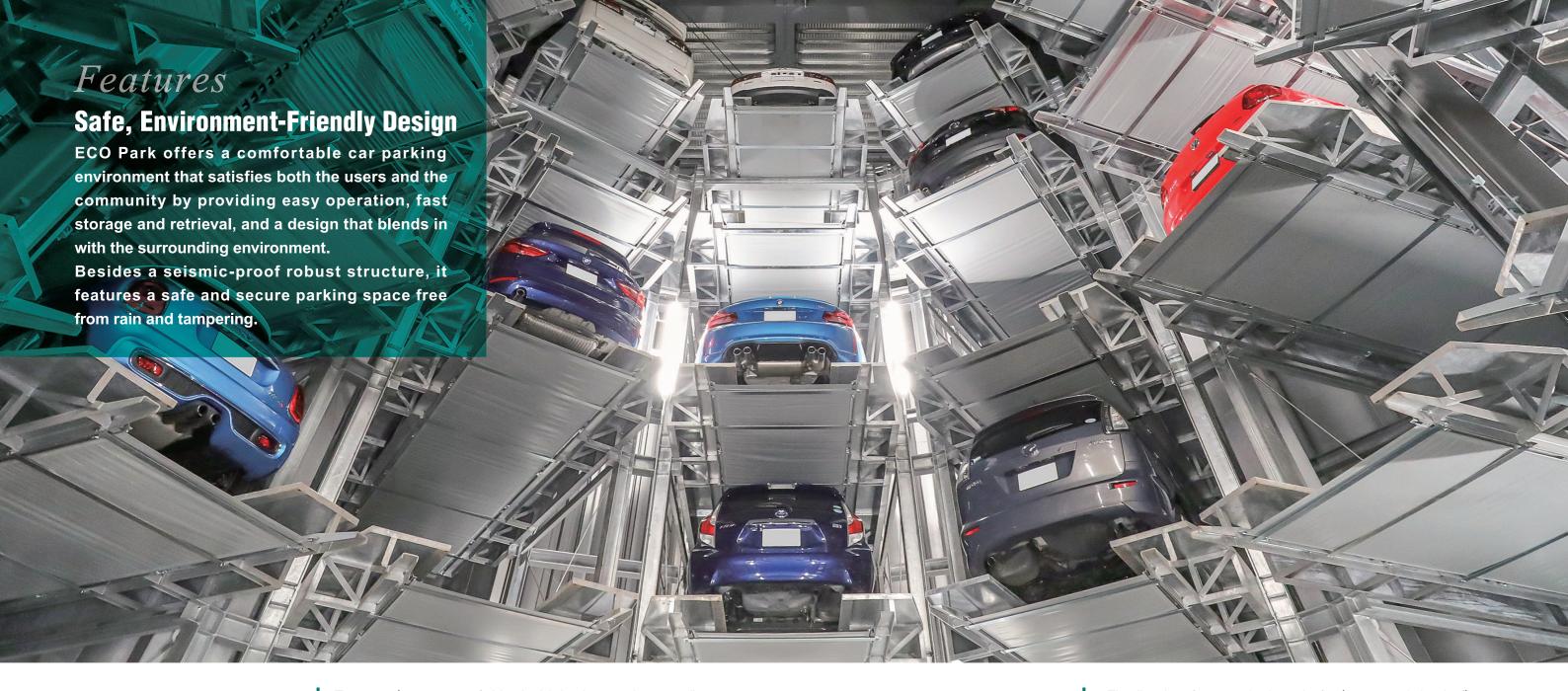
ECO Park is an automated car parking facility developed with the concept of "Culture Aboveground, Function Underground".

A parking capacity of over 50 cars per unit can be provided underground with a compact entry/exit booth on the ground. ECO Park helps to add refinement to future urban development by accommodating parking functions underground and ensuring a minimal footprint aboveground.

P. P. P. P. **ECO Park** 

You can watch a video of the ECO Park.

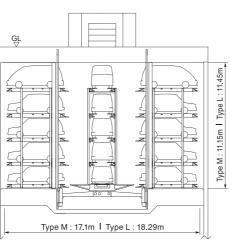




**Example of Entrance / Exit Booth** 

The extremely compact entry/exit booth minimises impact to the surrounding environment and allows the aboveground space to be effectively utilised.





#### Flexible Flow Line

The direction of entry and exit can be freely set to optimise the flow line according to the location conditions.



Examples of designs







Shared entry and exit

Pass-through

Customised exit

## Speed

# 27-seconds retrieval The fastest retrieval time is 27 seconds (average of 32 seconds), which is increadible. This performance ensures comfortable operation unaffected by congestion even during rush hours. \*Measured with the unit of M type, 50 vehicles specifications. \*Depends on product specifications.

#### Highly efficient storage/retrieval operation

Both entering and exiting the 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.

Take the parking card and move the car forward to enter.



Check for safety and start the storage operation.



3 The vehicle will be stored automatically.



#### **Card reading options**



#### **IC Card**

Contactless IC cards can be used repeatedly.



#### Magnetic Strip Card

Magnetic stripe cards, which are commonly used in hourly parking lots, can also be used.

Max. 1900 mm

Max. 2150 mm

Max. 2000 mm

#### Retrieval

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

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



The vehicle will be retrieved automatically.



3 Drive the vehicle forward and complete



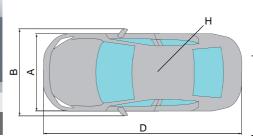
#### **Vehicle Types**

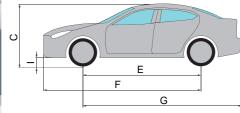
ECO Park adopts various technologies to accommodate most of the passenger vehicles on the market. It also can accommodate a wide variety of vehicles including vans, wagons, and SUVs that are becoming popular in recent years.





Sports Cars





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	D. Total Length		Max. 5000 mm
Type M	E. Wheelbase	Min. 1810 mm	Max. 3100 mm
	F. Front Bumper to Rea	Max. 3995 mm	
	G. Rear Bumper to Fron	Max. 4105 mm	
	H. Weight		Max. 2200 kg
	I. Minimum Body Height from Ground		Min. 80 mm
	A. Total Width		Max. 2020 mm
	B. Total Width + Side Mirrors		Max. 2270 mm
	C. Total Height		Max. 2300 mm
	D. Total Length		Max. 5400 mm
Type L	E. Wheelbase	Min. 1810 mm	Max. 3250 mm
	F. Front Bumper to Rear Axle		Max. 4300 mm
	G. Rear Bumper to Front Axle		Max. 4400 mm
	H. Weight		Max. 2500 kg
	I. Minimum Body Height from Ground		Min. 80 mm

A. Total Width

C. Total Height

B. Total Width + Side Mirrors

# 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.





# Ecology

### **Design and Construction Concept**

The Press-in Method, an original construction technology of GIKEN, minimises the construction period, space, noise, and vibration. The frame structure is designed for easy removal after use.



**Guidance Display** (Above Entry Door)

**Entry Detection Sensor** 

**Monitor** 

**Motion Detectors** (Inside Booth)

**Earthquake Detection** Sensors (Underground)

**Guidance Display** (Above Entry Door)

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.

**Monitor** 

The camera shows the entire inside of the entry/exit booth, allowing the operator to monitor the storage/retrieval operation in real time.

**Motion Detector** 

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 protect the vehicle.

**Short Construction Period** 

**Space-saving Construction** 

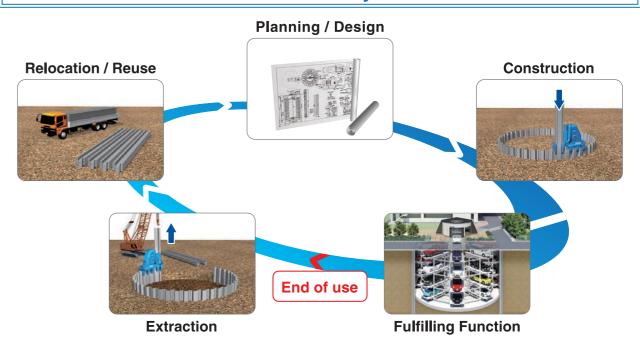
Noise and Vibration-free Construction

The simple construction process by the Press-in Method allows for completion of one unit in as short as four months.

Systematised and compact machinery enables space-saving construction. This minimises the need to regulate traffic and the impact on the surrounding environment, allowing cost-efficient construction.

No harmful vibration or noise will be generated during the installation of the structure, allowing construction to be carried out in densely populated areas without disturbing the daily living environment.

#### Functional Structure™ - Easy to relocate / reuse



"The Right Function for the Right Time."

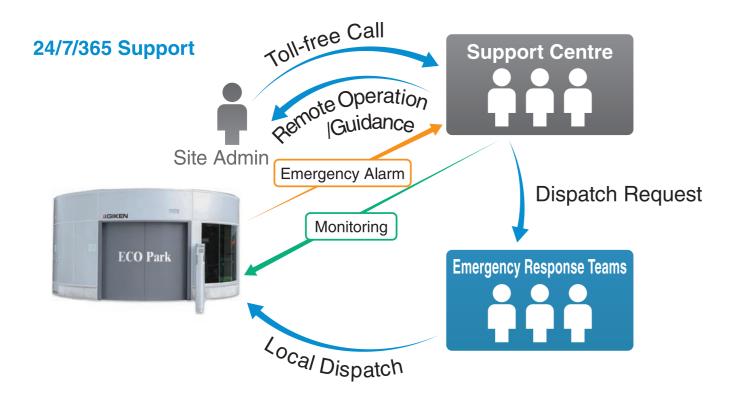
ECO Park is designed to be the "Functional Structure" considering up to the dismantling and removal phase when bicycle parking is no longer needed in the area. ECO Park can be easily removed and its location can be restored to its original state by following the installation process in reverse order. The materials removed can also be reused, contributing greatly to a sustainable society.





**Our Support System** 

In case of any malfunction within Japan, the emergency alarm will notify our support centre and operations can be restored remotely. Technical personnel will be dispatched promptly in case remote restoration is not possible.



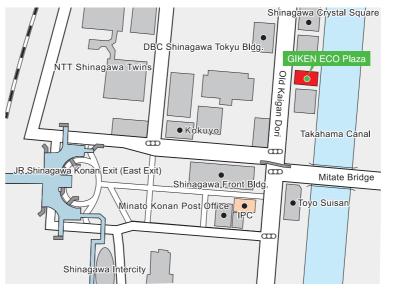
#### **Real-time Monitoring**

Cameras installed on ECO Park allow the situation to be monitored 24 hours a day, providing a prompt and accurate response in the event of a problem.

#### **GIKEN ECO Plaza**

Visit us to see and learn more about the ECO Park.

Address: Daido Shinagawa Building 1F, 1-6-35 Konan, Minato-ku, Tokyo 7-minute walk from JR Shinagawa Station Konan Exit (East Exit)





For inquiries about visits, please contact us in advance.

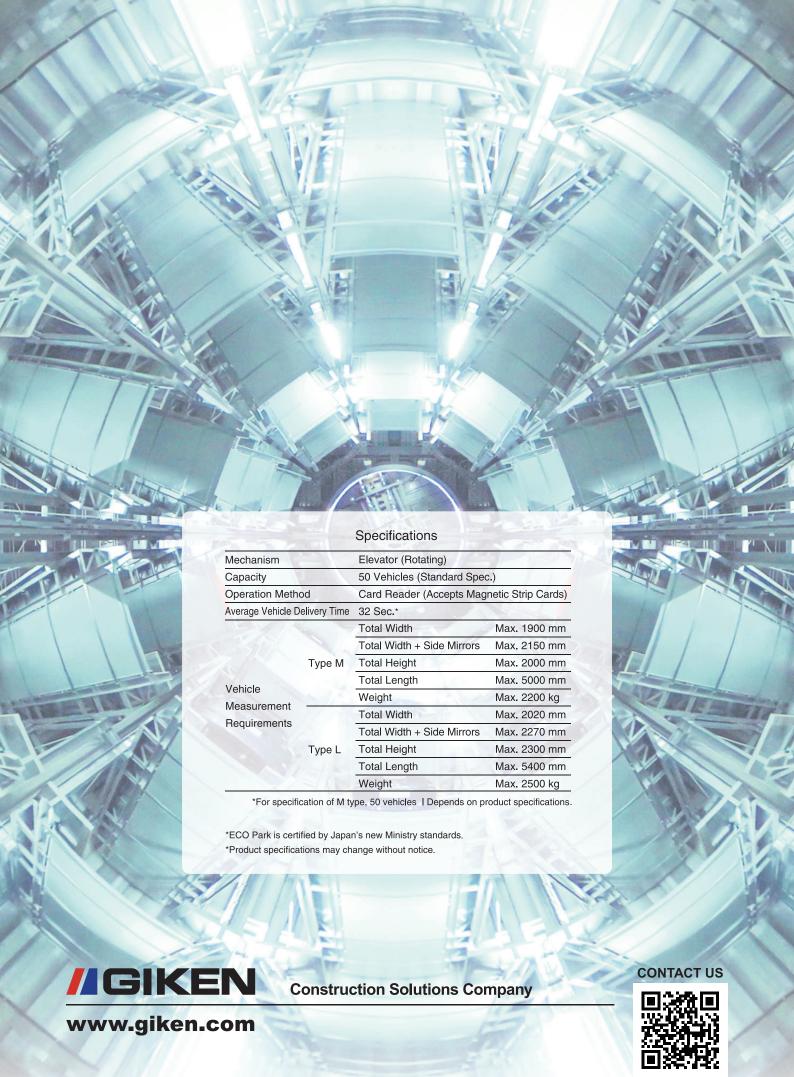
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