Automated Bicycle Parking Facility







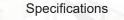


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Ver 5.0EN01 / 27 Jun 2025



Mechanism	Elevator (Rotating)		
Capacity	200 Bicycles (Standard Spec)		
Operation Method	Card Reader (IC Card + IC Tag)		
Vehicle Delivery Time*	15 Sec. (Average)		
Usage Type	Monthly / One-time / Rental Cycle (Combined Use Possible)		
Bike Specification	Tire Size	18 - 28"	
	Tire Width	Max. 56 mm	
	Total Width	Max. 650 mm	
	Total Length	Min. 1400 mm, Max. 1950 mm	
	Total Height	Max. 1350 mm	
	Front Basket Width	Max. 580 mm	
	Rear Basket Width	Max. 530 mm	
	Weight	Max. 40 kg	

Construction Solutions Company

Time from swiping card to exit door opening

*Product specifications may change without notice. *"ECO Cycle" is a registered trademark of GIKEN LTD. in Japan.



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Base GRIN Base EC



Automated Bicycle Parking Facility

Culture Aboveground, Function Underground

GRIN Base EC is an automated bicycle parking facility developed with the concept of "Culture Aboveground, Function Underground".

With a compact entrance booth, it requires minimal space aboveground and provides more than 200 parking spaces underground. It brings cultural enrichment to the cityby promoting bicycle use and preventing disorderly parking.

You can watch a video of the GRIN Base.





Features **Pursuit of Comfortable User Environments**

GRIN Base offers a comfortable bicycle parking environment that satisfies both the users and the community by providing easy operation, fast storage and retrieval, and a design that blends in with the surrounding environment. In addition to providing protection from rainwater and theft, the robust construction can withstand an earthquake with a seismic intensity of 6 upper to ensure safe and secure use.

Underground Model

Based on the concept of "Culture Aboveground, model has a structure with high accommodation booth that harmonises with the surrounding environment a comfortable space.



Function Underground," the underground efficiency installed underground. A compact is installed above the ground to create

Aboveground Model

The aboveground model can be incorporated into buildings without sacrificing accommodation efficiency and convenience of the underground model. By installing an exterior glass wall, this model becomes an attractive bicycle parking garage that adds an iconic feature to the building.



Achievements



Sidewalk





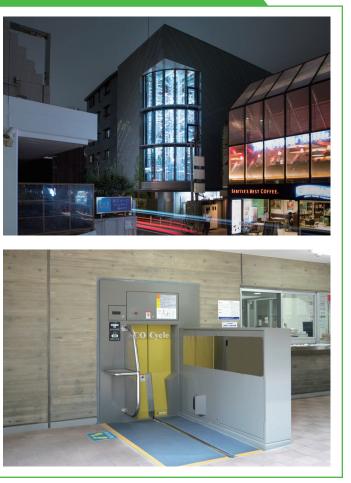
Complex facility (Underground)

8.4 m





Complex facility (Aboveground)



Speed **High Speed Retrieval**

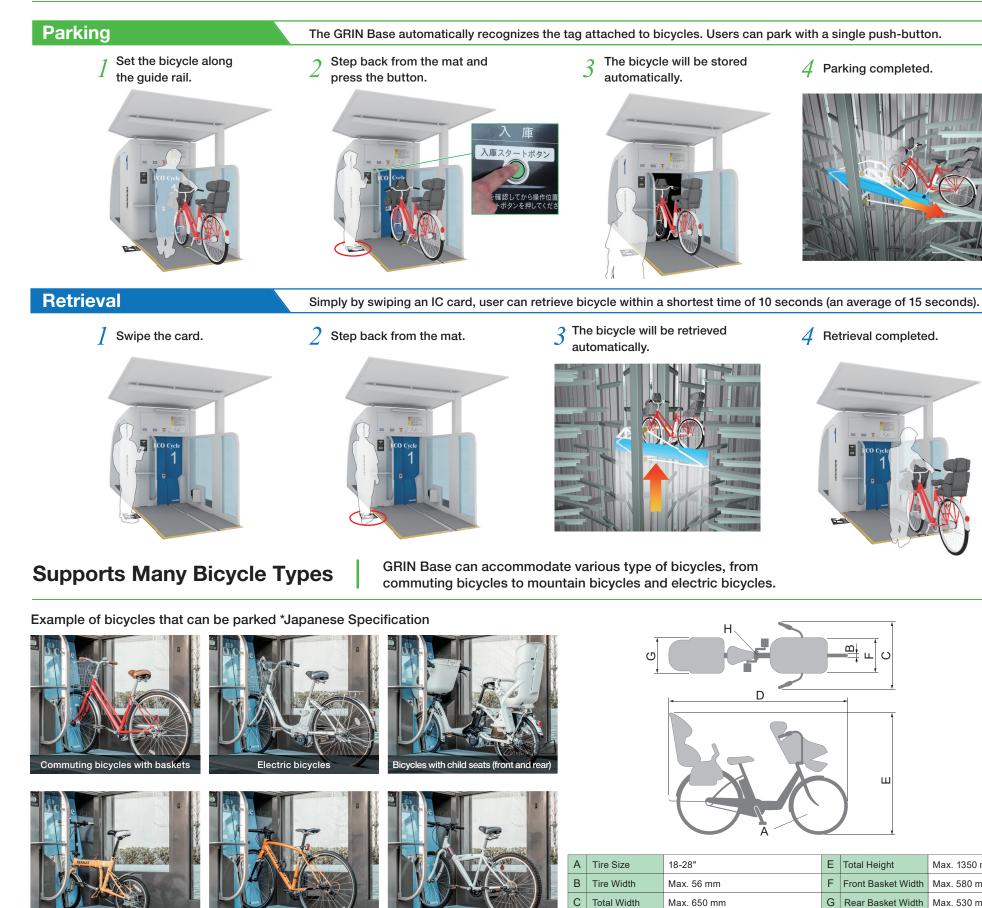
The fastest retrieval time is 10 seconds (average of 15 seconds), which is the industry's fastest speed*. This performance ensures comfortable operation unaffected by congestion even during rush hours.

*According to our research in 2024



Simple Operation

Press a button for parking and swipe an IC card for retrieval. Easy and simple operation made accessible to all users. Traffic IC cards can be used.



- 4 Parking completed.



4 Retrieval completed.



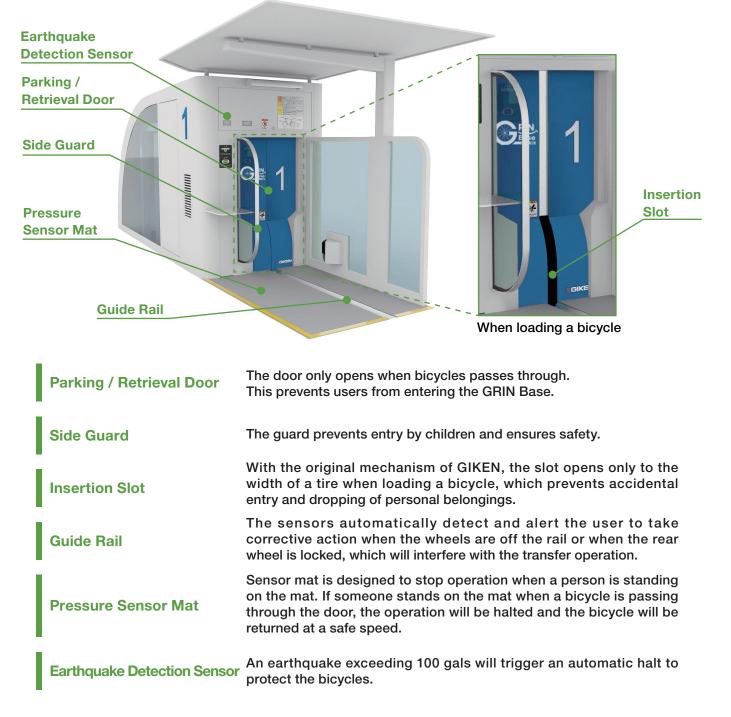
D Total Length

18-28"	Е	Total Height	Max. 1350 mm
Max. 56 mm	F	Front Basket Width	Max. 580 mm
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Safety **High Design Safety**

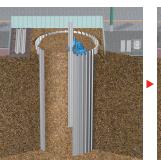
GRIN Base comes with a complete set of safety features to ensure the safety of both the users and their bicycles.





Construction Sequence

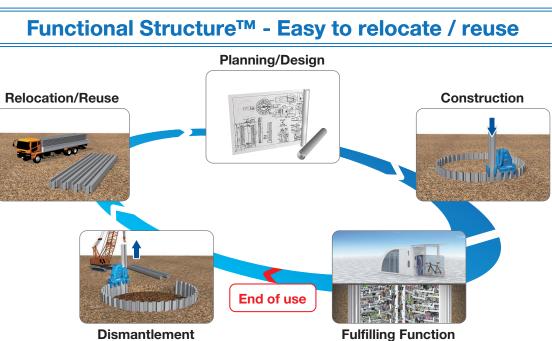
GRIN Base is constructed using a rational, temporary work-free method whereby the continuous wall built by press-in becomes the seismic structural wall of the bicycle parking. The prefabrication of machinery and equipment also reduces on-site work significantly and realises rapid construction.





1. Install a specially designed piles to form a cylindrical wall using a dedicated press-in machine.

2. Excavate the soil inside the cylinder to create the underground space.



"The Right Function for the Right Time." GRIN Base is designed with a "Functional Structure" considering up to the dismantling and removal phase when bicycle parking is no longer needed in the area. It 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.

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.



3. Install the mechanical equipment in the cylinder.



4. Finally the prefabricated entrance booth is fixed above ground.

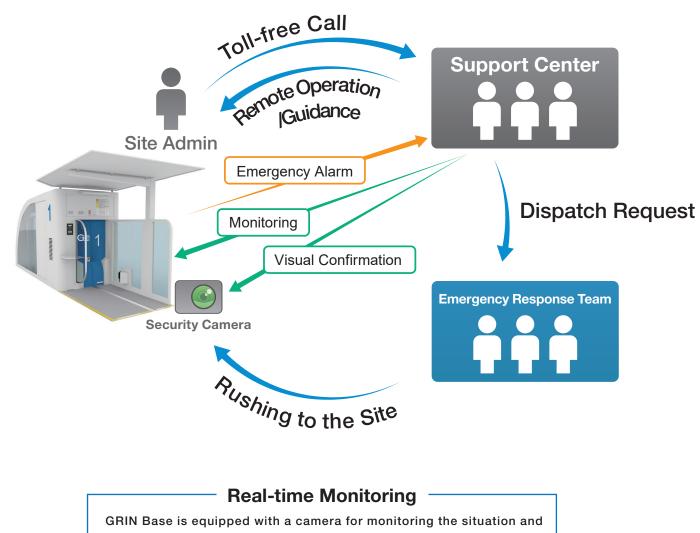
Support **Reliable Customer Support**

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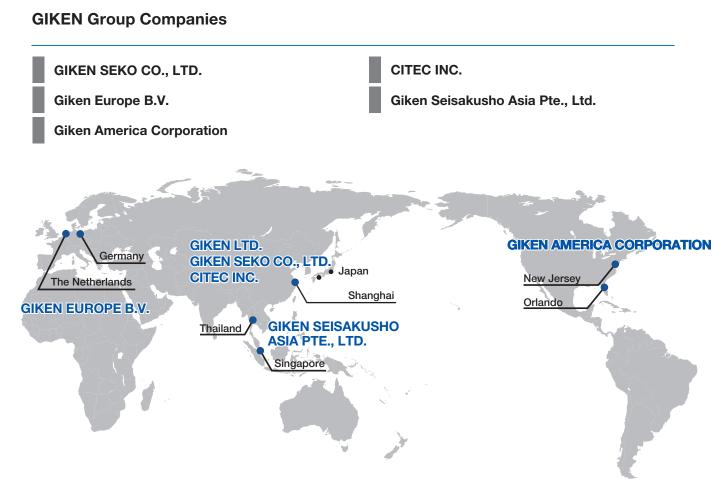
Our Support System

In case of any malfunction, the emergency alarm will notify our support centre automatically and operations can be restored remotely. The technical person will be dispatched promptly in case remote restoration is not possible.



responding promptly to any issues.

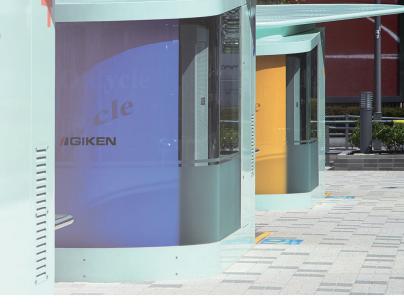
*Customer Support in international markets to be developed and agreed on a contract specific basis.



For more details, please contact us below.

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