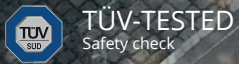




BIKE-SAFE-TOWER

# FULLY AUTOMATIC BICYCLE PARKING GARAGE WITH MAXIMUM CAPACITY AND A MINIMUM FOOTPRINT



› CREATE UP TO 76 BICYCLE PARKING SPACES  
ON ONLY TWO CAR PARKING SPACES

 SWISS MADE  
Engineering

 TÜV-TESTED  
Safety check



SEE IN  
ACTION



› SIX TO 1'000 AND MORE PARKING SPACES  
THROUGH MODULAR CONSTRUCTION

See information on page 4



## HIGHLIGHTS

- ✓ Up to >1'000 bicycle parking spaces
- ✓ Single boxes with storage unit
- ✓ Quick access in approx. 15 seconds
- ✓ Cloud management software
- ✓ App for iOS & Android
- ✓ Freedom of design for the facade
- ✓ Option: autonomous power supply

### From 6 to >1'000 bicycle parking spaces

The BIKE-SAFE-TOWER is ideal for any parking capacity needs: Six to 1'000 parking spaces and more are feasible.

### Single boxes with storage unit

Each bike is parked in a single box, protected from weather and theft. The single box also provides storage units for helmet, cycling clothes and backpack.

### Quick access within 15 seconds

Access to a single box with a parked bicycle is ensured within approx. 15 seconds. Access is provided via a smartphone application.

### Individual parking service

Every tower operator can use the cloud-based management software to organize the parking garage according to the market requirements: The allocation of parking spaces for short-term or long-term parking (subscriptions) as well as the associated parking tariffs can be freely selected and adapted.

### For almost all bikes

The dimensions of the single box are such that practically any bicycle, regardless of type and weighing up to 35 kg, can be safely parked.

### Full-speed access to the bicycle

The entire system is designed for speed and **sets the benchmark in Europe** (as of summer 2023): For example, in a system with 8 gates with 20 bikes each, the bicycle parking garage achieves an unloading and parking time of approx. 16 bikes per minute; that is 160 bikes in no more than 10 minutes!



### Paternoster technology

At the heart of the tower's mechanics is the tried-and-tested paternoster technology. Proven for more than 100 years and now newly transferred into the modern and digital age. The system convinces with very high reliability and low maintenance requirements.

### Digitalized control

The BIKE-SAFE-TOWER is digitally networked and organized. The interaction with a state-of-the-art SIEMENS® control system and a specially developed system software make the tower a modern and reliable overall system.

### Autonomous power supply

With a photovoltaic system and battery storage, the bicycle parking garage can be operated completely self-sufficiently.

### Easy to maintain

Maintenance and service work is mostly possible during operation. This is because the paternoster units operate independently of each other: Thus, only one unit is briefly interrupted at a time and the others are still in operation.

### TÜV-tested for safety



Together with TÜV Süd, a sophisticated safety concept was developed and implemented and certified by TÜV Süd.

# 100-YEAR-OLD TECHNOLOGY REIMAGINED

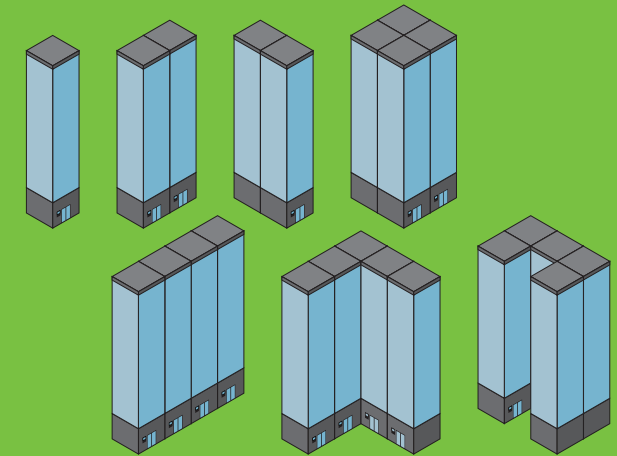
The mechanical system is based on a technology that is more than 100 years old: the paternoster system. This technology is characterized by very high ruggedness and reliability.

To meet today's and future requirements for safety as well as digital control, we have invested over seven years of development time in various prototypes. – The result is a fully automated bicycle parking system that is fully developed and has proven itself in practice for years.

THE TOWER TYPES CAN BE COMBINED IN DIFFERENT LAYOUTS, SO THAT THE REQUIRED PARKING CAPACITY CAN BE ACHIEVED:

- › Combinable with the same tower types
- › Layout of the towers can be freely selected

TOWER TYPES	HEIGHTS	CAPACITIES
TOWER BST-06	6 m	6 Parking spaces
TOWER BST-09	8 m	9 Parking spaces
TOWER BST-14	12 m	14 Parking spaces
TOWER BST-20	16 m	20 Parking spaces
TOWER BST-25	20 m	25 Parking spaces
TOWER BST-32	25 m	32 Parking spaces



View of tower without facade cladding, with paternoster.



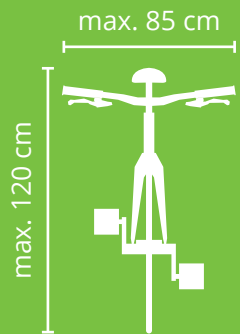
Facade design with opaque glass, illuminated at night.

## STEEL CONSTRUCTION – DESIGNED FOR DECADES

The BIKE-SAFE-TOWER is housed in a solid steel structure that can withstand any climate and weather conditions for decades. Its mechanical technology is also designed accordingly, so that reliability is guaranteed in the best possible way.

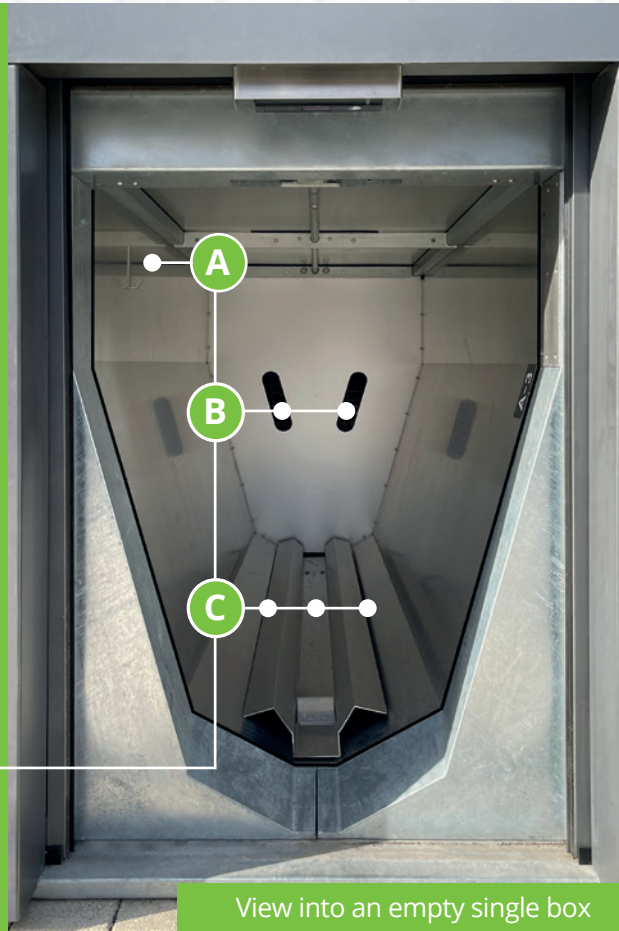
## CREATIVE FREEDOM FOR THE FAÇADE DESIGN

When it comes to the facade, the full scope of creativity can be unleashed: Heavy-duty elements, large-scale displays for advertising, the installation of photovoltaics on the facade and on the roof are just as possible as planting greenery. Thus, a tower can also be ideally integrated visually into any environment.



- › **Total weight:**  
up to 35 kg
- › **Tire width:**  
up to 8 cm

- A Hook for storage unit (helmet, etc.)
- B Ventilation slots for air circulation
- C Wastewater gutter for rain/snow



View into an empty single box

## PARKED IN THE BOX – PROTECTED AGAINST WEATHER & THEFT

Using the smartphone app, the single box is organized and the sliding doors are opened. The bike can now be pushed into the box. The bike finds its final parking position independently and is also secured against rolling back at the same time.

After parking, the client can deposit personal belongings, such as helmet, rain gear, bicycle clothing and backpack, if required, on the hook provided for this purpose.

## CONSTANT LOAD MONITORING

When parking, the maximum load of 35 kg (bicycle incl. personal bicycle clothing) is constantly monitored. If the total weight is exceeded, this is indicated on the outside display at the door. Overloading is thus not possible and malfunctions are prevented.



Closing gate with sliding door



Storage unit for helmet etc.

# CLOUD MANAGEMENT SOFTWARE

## Digital tower organization

The tower management software ensures interaction with the SIEMENS® control system.

The operator has the possibility to set up and adjust the parking service offer according to local needs.

The most important functions at a glance:

- Autom. management of parking clients
- Overview of the customer profiles
- Autom. management of the single boxes
- Overview of active parking situation
- Freely definable parking tariffs
- Set up short-term, long-term parking and subscription offers
- Blocking of single boxes and clients possible

## Cloud-based - no installation required

The management software is accessible as a cloud solution with current browsers. Therefore, no client installations are necessary.

## Data protection according to DSGVO

The system runs on servers in Switzerland and is DSGVO-compliant.

## Autonomous operation 24/365

After the initial setup with the parking offer, the tower runs 24/365 fully autonomously.



➤ **MORE INFO ON THE APP:**  
[bike-safe-tower.app](https://bike-safe-tower.app)

# APP FOR PARKING CLIENTS

## Easy, quick, and uncomplicated

Clients of a BIKE-SAFE-TOWER gain access via a smartphone app, which is available free of charge for iOS (Apple®) and Android (Google®) in the respective stores.

In addition to short-term parking, clients can also purchase subscriptions (weekly, monthly, annual). The client always has insight into the current parking rates.

The operation of the app and use of the bike parking garage is simple and self-explanatory.

## Payment using the app and proceeds

Parking services are paid for via the application. Several payment options are offered.

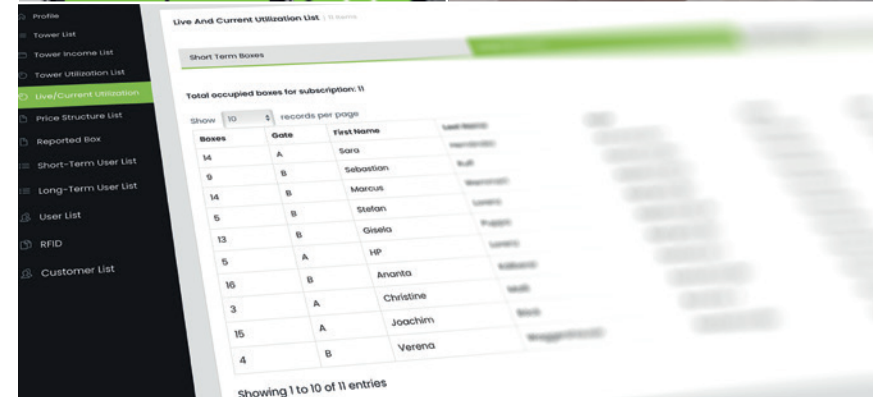
The paid parking fees are automatically transferred to the operator. In addition, the operator also receives insight into all transactions and earnings regarding his bicycle parking garage.



# SIEMENS

State-of-the-art technology also for the control system – from SIEMENS®

A display at the gate informs live about status & operations



Boxes	Gate	First Name	Last Name
14	A	Sara	...
9	B	Sebastian	...
14	B	Marcus	...
5	B	Stefan	...
13	B	Gisela	...
5	A	HP	...
16	B	Ananta	...
3	A	Christine	...
15	A	Joachim	...
4	B	Verena	...



## SUBSIDIES FOR GREEN MOBILITY

### Sustainable mobility in urban areas

In many countries, great efforts are being made to make cycling attractive through subsidies (e.g. in Germany with the «National Cycling Plan 3.0»). With us as a partner and the BIKE-SAFE-TOWER, there are good chances to get a bicycle parking garage with the necessary capacity financed for your location.

### Important cooperation with authorities

We have extensive experience in applying for funding and the necessary cooperation with the relevant authorities. In the various phases leading up to the release of funding and construction, there are different requirements to be met and the right information to be provided. Topics that we evaluate and work out together with you include the following:

- Analysis of the market & target groups
- Site analysis and site selection
- Evaluation of parking space capacities
- Building space requirements & building regulations
- Possible facade designs
- Required autonomous power supply
- Any connection to a public transport association
- Detailed construction planning and management
- Evaluation by local partners (e.g. local craftsmen for on-site services such as concrete, electrical and installation work)
- Implementation of TÜV Süd safety concept



## CUSTOM-TAILORED SERVICE

### Evaluation and planning

We will gladly support you already in the run-up to the evaluation for the creation of bicycle parking spaces. We show you the advantages and disadvantages of the systems available on the market and support you with additional services such as:

- Visualizations of your construction situation
- Provision of tender documents with evaluation matrix
- Cost estimates
- Determination of the foundations and the necessary supply lines

### After-sales services

Our service department will be happy to provide regular maintenance and repair services or instruct your own service staff. Training of the fire department and the operator are also part of our service. We can also arrange and organize completely individual services for you according to your needs.

### Remote maintenance of each tower

We can access the respective tower via remote maintenance for the elimination of any minor malfunctions.

**16 BICYCLE PLACES IN  
THE MOBILE BIKE BOX**

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bike | parking | locker



bike | safe | tower

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bps | value | service

**CONSULTING & EXPERT ASSES-  
MENTS FOR BICYCLE PARKING**

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