

STORAGE LOCKERS



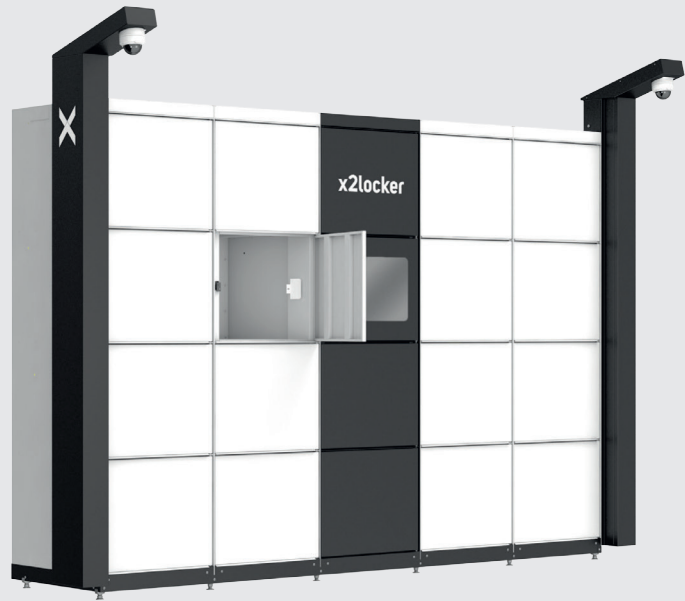
bag2locker

Suitable for:

storage of baggage, personal items

Designed for:

indoors and outdoors, private spaces, administrative buildings, shopping centers, production plants, hospitals, sports venues, multifunctional complexes, museums, camps, etc.



HOW THE STORAGE LOCKERS WORK:



The customer presents identification, for example a smart (chip) card.



The customer chooses a locker on the screen.



The customer inputs the expected storage duration.



The customer gets an access code for the locker to his cellphone.



Storage in the locker may be free of charge or subject to a fee.

MAIN BENEFITS:

- 24/7 operability
- Remote monitoring and management
- No attending staff
- High security: robust and durable materials, under camera surveillance
- High system throughput – quick baggage storage / retrieval
- Low power consumption
- No need to keep a key or have coins on hand

TECHNICAL INFORMATION:

Design	<p>Individual modules are made of sheet metal 11321.21/ DX51D+Z180 MAE with a thickness of 1.25 mm for the shell and 1.5 mm for the door.</p> <p>Standard surface finish: exterior powder coating – white RAL7035/black RAL7016. For larger projects, the color design of the module can be customized.</p> <p>Lifetime of the electromagnetic lock: 500,000 openings.</p> <p>Shelf load-bearing capacity: 50 kg.</p> <p>Outdoor version protected against water ingress (PUR seal).</p> <p>Sheet-metal modules with the option to customize locker size before ordering.</p> <p>Shelf spacing adjustable in 62.5 mm increments.</p> <p>Lowest locker height 125 mm.</p> <p>Powder coated finish with anti-graffiti treatment.</p> <p>Riveted frameless locker structure.</p> <p>Modular system, modules can be freely connected in rows. Row is interconnected through the bottom supporting frame.</p>
Security	<p>Reinforced structure – bracing in shelves and doors Stabilization elements, ready-made for anchoring to a wall or the ground</p> <p>Electronic monitoring of unauthorized access to the locker</p>
Software	<p>GUI – Graphic User Interface – a graphic interface on the LCD touch panel Call Center – a web application for system management</p> <p>Manager – a mobile application with an overview of revenue and system workload</p>
Payment	Free of charge or by payment card via payment terminal
Access	Via touchscreen and access code received by SMS text message
Depth	75 cm
Width	60 cm
Height	210 cm
Power supply	230 V
Connection	Internet connection or available GSM signal
Services	Design, Transportation, Hardware and software installation, System setup and operator training, Warranty and post-warranty service, Call center
Operator	Customer
Warranty	24 months

REFERENCES:

bag2locker :

Baggage room: Prague main train station, Liberec, Ostrava



Suitable for:

all x2locker products

For end users and couriers - loading and picking up shipments.

For service teams.

For a call center to handle individual requests of end customers.

For a monitoring center to ensure network security and communication.

Designed for:

For individual lockers operating independently, as well for large shared networks containing thousands of lockers.

With regard to cyber security - as a system running on "on-premise servers" or in a private cloud or in a shared cloud.

With regard to GDPR - geographical location of the server according to the customer's needs.



Frontend

Web based application for PC and mobile devices

- **ticketing system** – web based portal for raising and solving of all kind of problems.
- **kiosk application** – web based application visible on LCD panel on every kiosk.
- **monitoring** is web based portal for call center operators, technical administrators and business supervisors.
- **mobile application** – web based application for all people supporting the network of lockers like technicians, cleaning service, administrators, couriers and end customers.

Backend

x2cloud consist of eight microservices:

1. **Organization** – allows to serve more companies, create teams. in companies with different responsibilities and keeps individual people in teams.
2. **Identity** – secures safe communication and authorisation of users.
3. **Communication** – including email, SMS gateway, push notifications.
4. **Kubernetes** – management and supervision of servers.
5. **Device** – allows to manage and monitor and visualise all hardware in network.
6. **Reservation** – logistic flow allowing to provide shared and dedicated locker and maintain the whole system of locker reservations.
7. **Workflow** – microservice providing flexible setup of screens depending on the specific flow which could be different for every customer.
8. **Synchronization** – secures synchronization of databases on local device with cloud database. This allows us to provide service even with internet connection outage.

Main Advantages:

Secured

- Certified authorization and authentication solution implementing OAuth2 and OIDC
- Encrypted communication over VPN with Firewall
- Tamper-resistant Linux system with disk encryption and limited GUI capabilities prevents misuse by an attacker
- Full control over customer data, possibility to ensure data residency in certain country for private deployment
- Searchable audit log of important actions happening in the system
- Sandbox encapsulation for all applications, high availability and redundancy in the cloud

Feature rich

- Adjust reservation workflow and booking conditions
- Configure storage unit layout from pre-defined templates or create custom arrangement
- Define storage unit features (cooling, heating), assign shared/private areas to tenants
- Fine grain access control with teams and roles

Flexible

- Whole system can be deployed to private cloud or on-premise
- Open REST API with webhooks ready for integration with third party system
- Create booking with consideration of various size, temperature, payment and pickup authentication options
- Accessible in multiple languages providing services across different regions

Remote controlled

- Mobile web application can be used alongside kiosk touch screen
- Perform maintenance tasks remotely via admin UI or locally even without internet connection
- Monitoring of cellular network availability, application health, temperature inside storage units and intruder detection alerts
- Real-time camera and display stream with playback and export capabilities
- Automated system upgrades and version management