

MazBuild – Building-Integrated Smart Bicycle Parking System

MazBuild is a fully enclosed, modular smart bicycle storage system designed for seamless integration within new or existing buildings. Available in two diameters — 5.5 meters (18 bikes/module) or 6.1 meters (22 bikes/module) — MazBuild supports up to 12 vertically stacked modules, enabling indoor storage for up to 144 bicycles per unit.

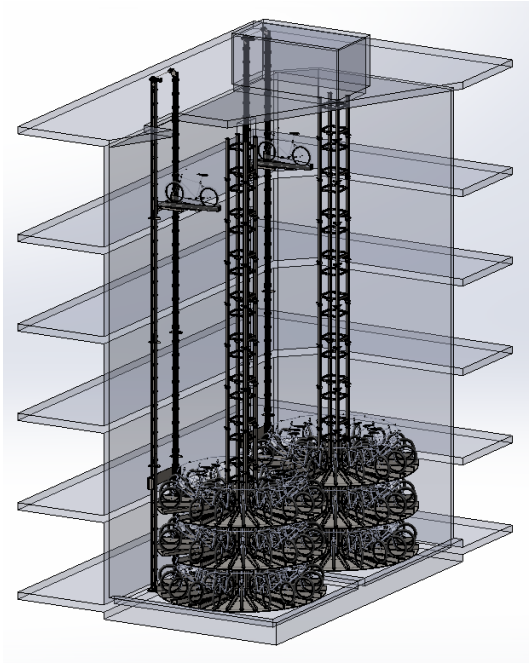
With intelligent app-based access, automated retrieval, and optional public-facing entrances, MazBuild serves both residential/commercial tenants and community cyclists. It includes specialized tenant access control, visitor management, and optional external wall-facing entry points, making it ideal for multi-use properties, sloped sites, and mixed-access developments. The system is compliant with structural, electrical, fire safety, and emergency standards, and can include backup power systems for continuous operation during outages.

🔧 Key Features – MazBuild

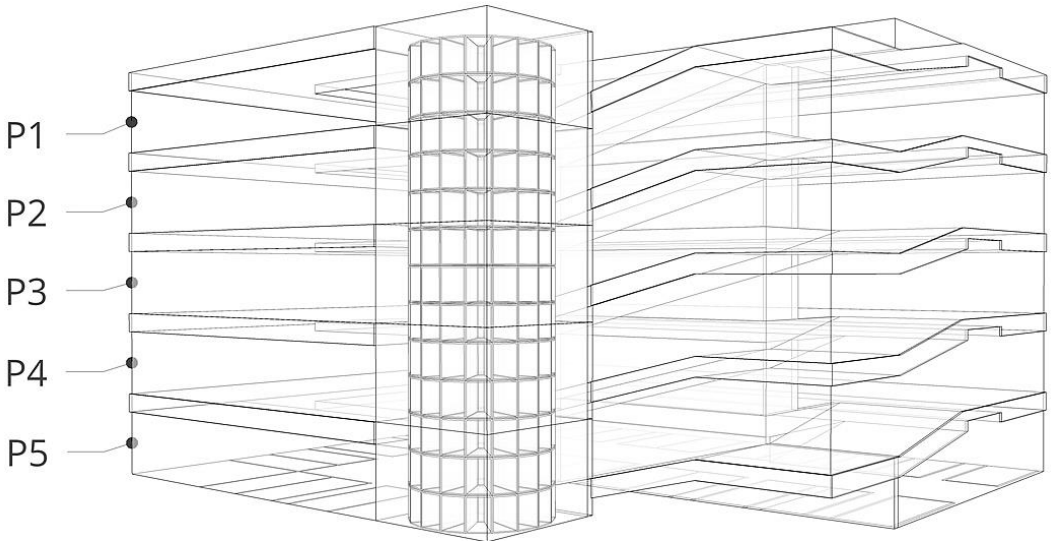
- **High-Capacity Vertical Storage:** Each system stores up to **144 bicycles** using modular stacking (6–12 modules).
- **Dual Diameter Options:** Choose between **5.5 m (18 bikes/module)** or **6.1 m (22 bikes/module)** models.
- **Fully Building-Integrated:** Designed to be structurally anchored **at base and top** within new or existing buildings.
- **Flexible Access Configurations:** Entry points can be positioned on **basement levels, lobbies, upper floors, or exterior walls**.
- **Tenant & Visitor Management:** Includes app-based allocation of parking spots, **visitor ticketing**, and **usage tracking**.
- **Public Access Support:** A portion of capacity can be made available to **non-tenants**, enabling broader community use.
- **Emergency Ready:** Supports **backup power systems**, **low-consumption hybrid mode**, and **emergency access pathways**.
- **Standards-Compliant Design:** Engineered to meet **CSA, UL, and EU safety, structural, and fire protection standards**.
- **Elevator-Style Shaft Compatibility:** Installed inside a **ventilated shaft** with internal lighting, drain, and **moisture control**.
- **Multi-Vehicle Compatibility:** Accommodates **e-bikes, scooters**, and bicycles with child seats or oversized frames.

MazBuild – Datasheet

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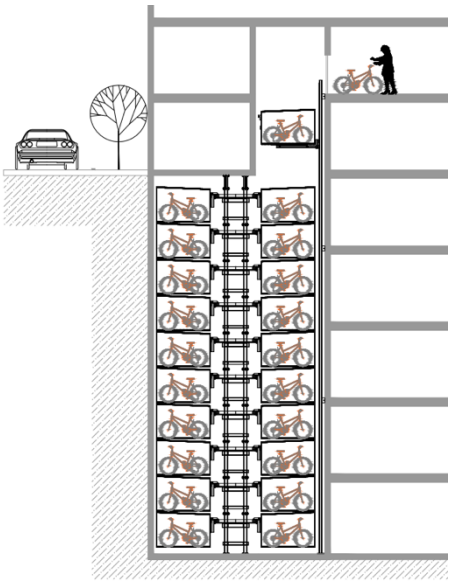


Category	Details
Product Footprint & Format	5.5 m diameter (18 bikes/module) or 6.1 m diameter (22 bikes/module); up to 12 vertically stacked modules
Total Capacity	Up to 144 bicycles per unit (12 modules × 12 bikes or 22 bikes depending on configuration)
Module Height	Varies by configuration; average module height ~2.5 m; full system height depends on module count
Structural Load	Max 2300 kg per module, applied to bottom slab; total weight = module load × number of modules
Anchoring Points	Connected at bottom slab and top ceiling slab; lateral support required above 8 modules
Bicycle Compatibility	Supports bikes up to 2.1 m long, 85 cm wide, 150 cm high; suitable for e-bikes, scooters, child-seat bikes
Retrieval Time	~30 seconds average for 8-module system; varies with height
Operation	Mobile app + RFID access; hands-free retrieval; tenant and visitor management features
Material & Finish	Aluminum structure; steel reinforcements; eco-composite internal panels (no polycarbonate)
Installation Requirements	Flat concrete slab inside a building shaft; drain required; not classified as habitable space
Power Requirements	208V, 3-phase, 30A with neutral to main disconnect switch
Connectivity	LTE internet included; optional integration with building internet system
Emergency Backup	Optional battery and/or generator system; supports low-power hybrid mode during outages
Lighting & Ventilation	MAZ provides internal maintenance lighting; building must provide basic ventilation (moisture control only)
Code Compliance	Designed to meet CSA/UL (North America) and EN standards (Europe) for structural, fire, and electrical safety
Access Point Options	Ground level, basement, lobby, upper floors, or external wall-facing entrance
Maintenance Access	Accessible via top hatch, bicycle door, or internal ports; modular zones for serviceability
Drainage Requirements	Floor drain required at slab level; water management provided by building's drainage design
Fire Safety Integration	Compatible with building fire detection and suppression planning; shaft is non-inhabitable
Software Features	Includes tenant/visitor access management, real-time occupancy monitoring, and business integration API
Public/Private Mode	Configurable to offer mixed public-private access, ideal for civic partnerships or shopping centers

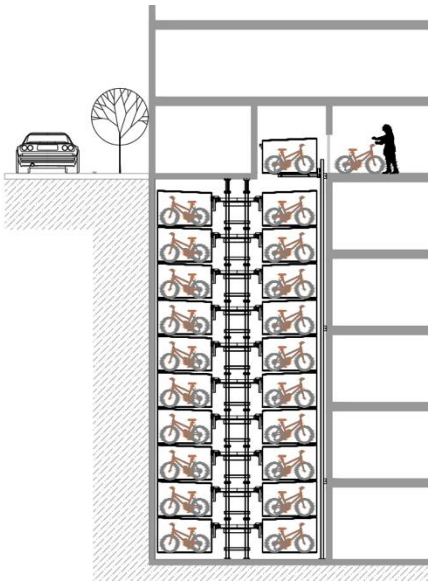


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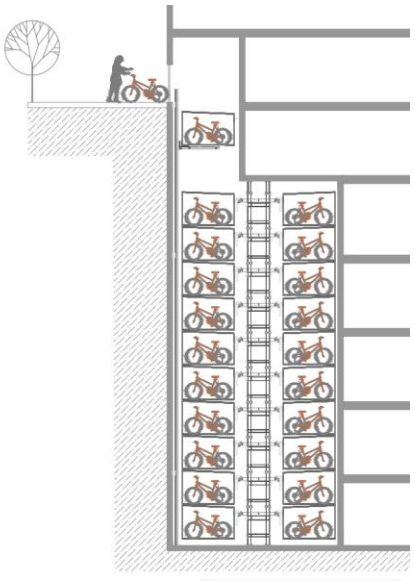
Upper Floor Access



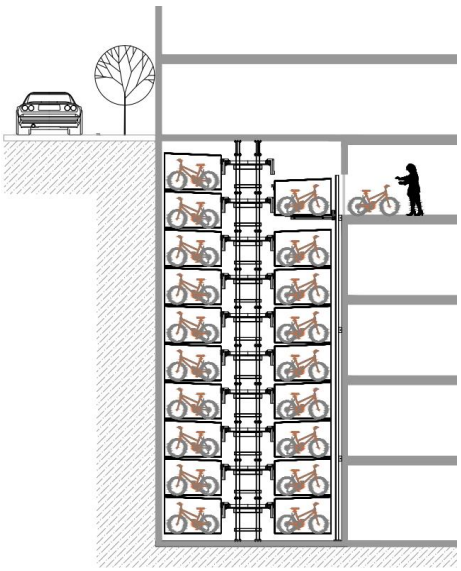
Lobby Access



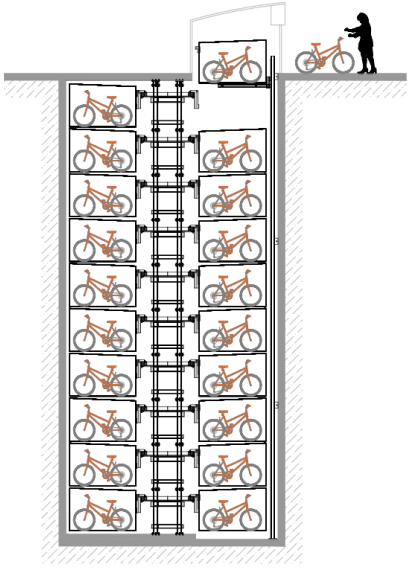
External Access



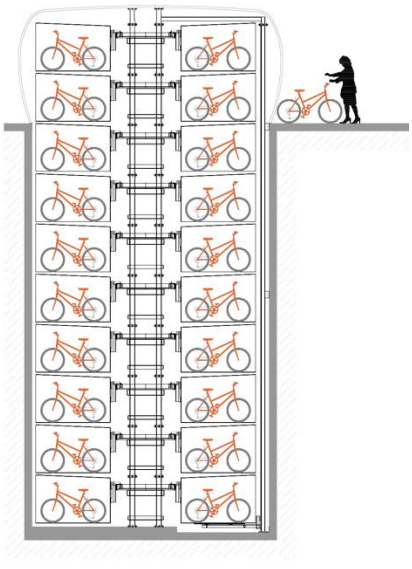
Parking Access



Ground Access



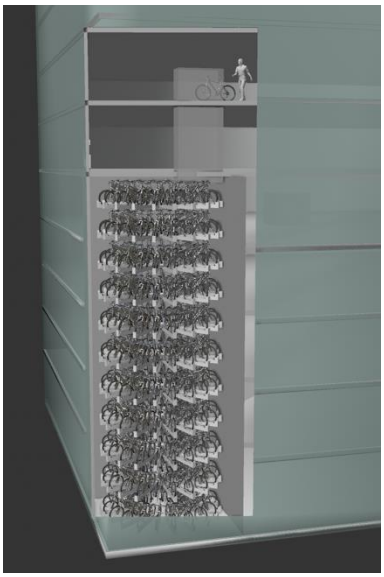
Dome Access



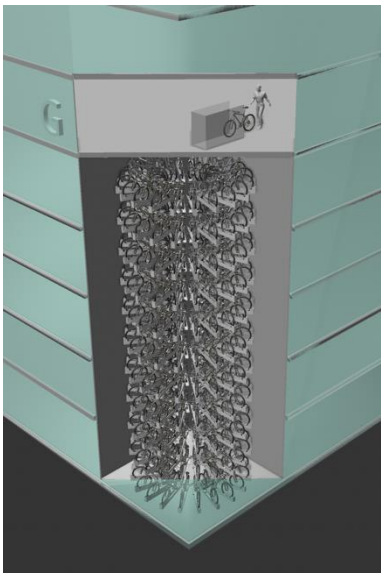
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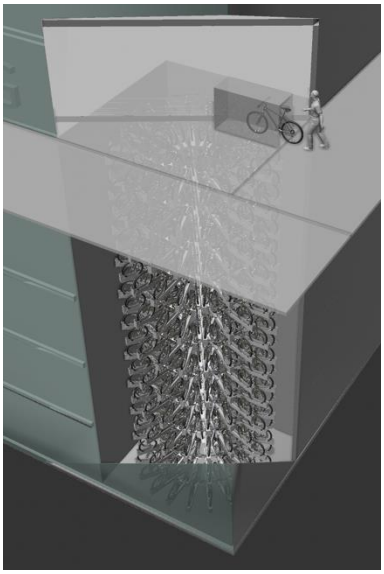
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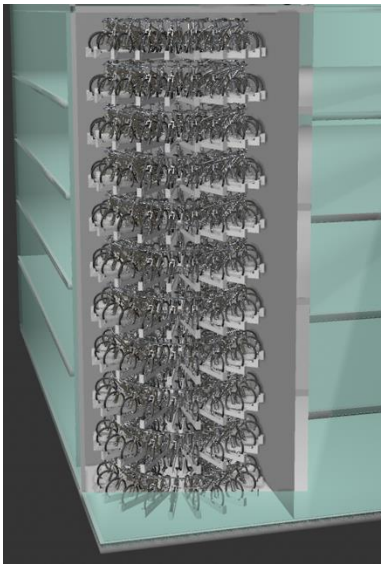
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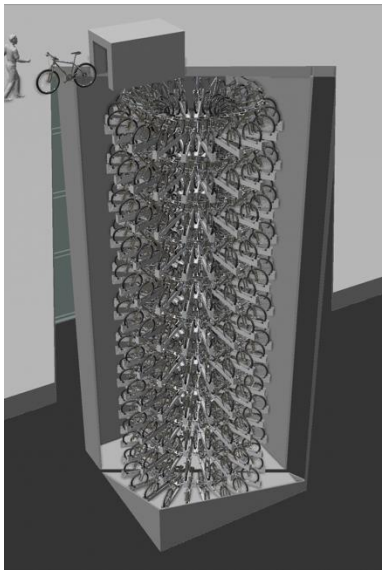
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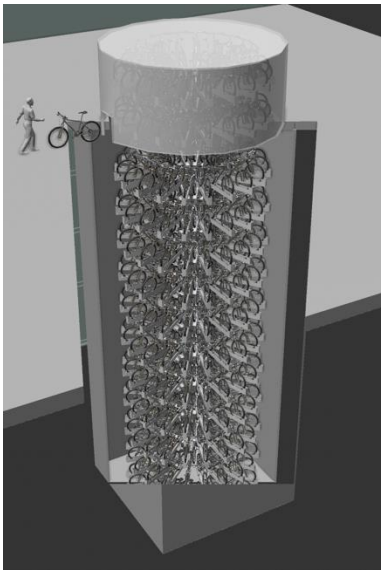
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