# MazStall – Datasheet







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## MazStall – Intelligent Vertical Bicycle Storage System

MazStall is a smart vertical bicycle storage system that fits up to 20 bicycles in the space of a single standard parking stall. Engineered for dense urban spaces, residential complexes, and transit nodes, MazStall delivers automated bike storage with secure access, real-time app control, and an innovative platform to connect riders with local businesses and services.

🔧 **Key Features**

- Automated Vertical Parking: Mechanized system stores bicycles vertically to conserve space.
- Fits 20 Bikes per Stall: Optimized design accommodates 20 bicycles in the area of one vehicle stall.
- Fast Installation: Fully deployable in a single day with minimal infrastructure requirements.
- Secure & Controlled Access: Users gain entry via app or RFID; optional camera and ID verification.
- Hybrid Power Option: Operates on hybrid mode at sites without hardwired electricity.
- Weather-Resistant Build: Robust for both indoor and outdoor applications.
- Smart App Integration: Bookings, access, and availability managed in real time via mobile app.
- Local Business Connectivity: Businesses in the community can integrate with the system to offer promotions, incentives, and services to nearby cyclists — turning MazStall into a localized engagement platform.

| Category | Details |
|---|---|
| **Product Footprint** | 2.5 m (W) × 5.5 m (D) |
| **Bicycle Compatibility** | Up to 2.0 m (L) × 0.75 m (W) × 1.1 m (H); supports e-bikes and scooters |
| **Operation** | Keyless access via mobile app; API integration available |
| **Retrieval Speed** | Max retrieval time: 10 seconds |
| **Materials & Finish** | Multi-layered hardened steel and aluminum; available in customizable colors |
| **Installation Time** | ~8 hours on level surfaces (≤6% grade) |
| **Power Requirements** | 110V or 220V; also available with hybrid battery and solar options |