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MazDome – Standalone Smart Bicycle Locker System

MazDome is a circular, modular smart bicycle storage system designed for scalable, high-density bike parking in urban environments. Each module stores exactly 18 bicycles, and the system's total footprint remains a compact 5.5-meter diameter, regardless of the number of modules stacked. MazDome can be installed above ground, underground, or in a hybrid configuration, with up to 10 modules below grade or 6 above grade. Durable, secure, and powered by a unified smart software platform, MazDome offers automated access, community integration, and promotional tools to support local business engagement and cycling culture.

Key Features – MazDome

- **Modular Stackable Design:** Each module **18 bicycles**; scalable to10 modules depending.
- **Compact Circular Footprint:** Total system diameter remains **5.5 meters**, regardless of height.
- **Smart Access & Hands-Free Retrieval:** RFID and app-based access with automated retrieval workflow.
- **Econ-Class Availability:** Offered in a **cost-effective two-module above-ground version** (Econ-Class).
- **Sustainable Construction:** Built from **aluminum, steel**, and **eco-friendly composite materials**.
- **Outdoor-Ready Setup:** Fully enclosed protected; installs on a **flat concrete slab** with no drainage required.

Category	Details
Product Footprint & Forma	Fixed circular footprint: 5.5 m diameter; stackable modular system (18 bikes per module)
Bicycle Compatibility	Up to 2.1 m (L) × 0.85 m (W) × 1.5 m (H); supports e-bikes and scooters
Operation	Keyless RFID and mobile app access; automated retrieval; LTE internet connectivity
Material & Finish	Primarily aluminum; steel frame; eco-composite dome (non-polycarbonate)
Installation Requirements	Flat concrete slab; no drainage required; suitable for above-ground, underground, or hybrid installations
Retrieval Speed	Max retrieval time: 10 seconds
Installation Time	~3 Days
Power Requirements	3-phase, 208V, 15A electrical connection required - also available 110V optional.
Charging Capability	Optional internal charging outlets for **e-bikes and scooters**