



6-BIKE MECHANICAL STACK PARKING LIFT SYSTEM

3 Bikes + 3 Bikes = 6 Bikes in One System | Model: HM/BP-6S

Triple Your Parking Capacity • Space-Smart Design • Both Sides Independent Operation • Safe & Durable

**6 Bikes /
System**

**3 + 3 Side A
+ Side B**

**3 Levels Upp
er/Mid/Lower**

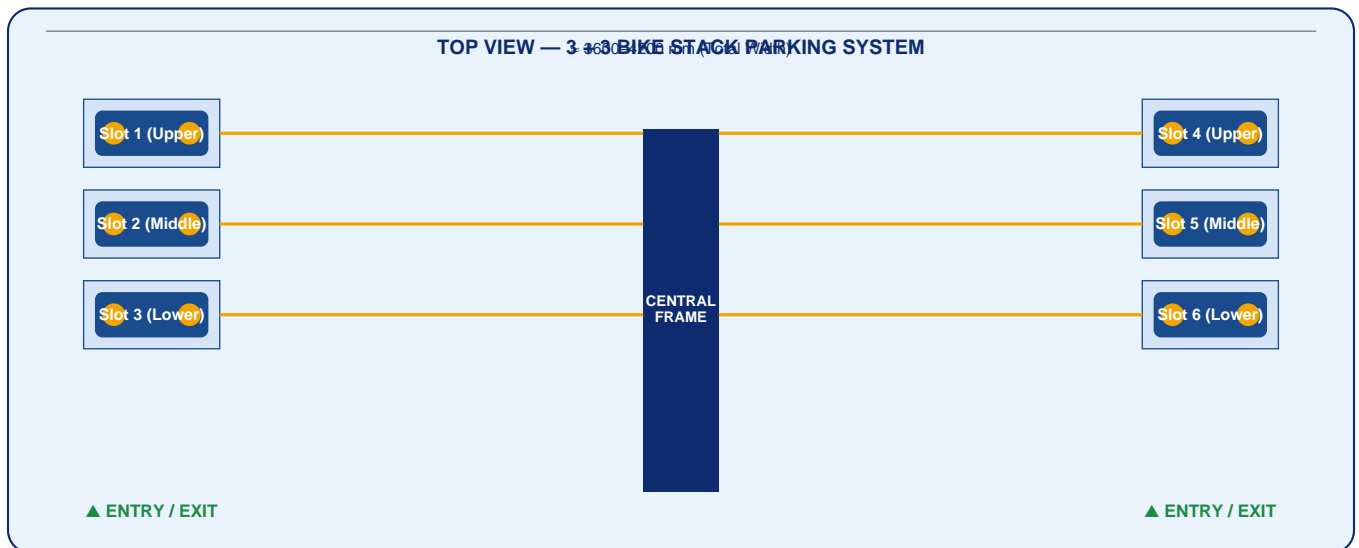
**Manual
Operation**

**150 kg Per
Slot**

PRODUCT OVERVIEW

The Hydromax 6-Bike Mechanical Stack Parking Lift (Model HM/BP-6S) is a double-sided, triple-level two-wheeler parking system that accommodates 3 motorcycles or bicycles on each side — 6 bikes in total within a single compact unit. With independent upper and lower rack mechanisms on both Side A and Side B, each bike can be parked and retrieved without disturbing others. The system uses a smooth counterbalance spring mechanism requiring no electricity for standard manual operation, making it ideal for basements, apartment complexes, offices, hospitals, and public parking zones.

SYSTEM LAYOUT DIAGRAM (3 + 3 Configuration)



■ Side A — 3 Bikes (Left)

■ Side B — 3 Bikes (Right)

■ Central Structural Frame

■ Spring-Balanced Rail System

TECHNICAL SPECIFICATIONS

Product Name

6-Bike Mechanical Stack Parking Lift System



Model Number	HM/BP-6S
Configuration	Double-Sided 3 Slots per Side Total: 6 Bikes
Levels per Side	3 Levels — Upper / Middle / Lower
Side A Capacity	3 Bikes (Motorcycles / Scooters / Bicycles)
Side B Capacity	3 Bikes (Motorcycles / Scooters / Bicycles)
Total Capacity	6 Bikes per System Unit
Per-Slot Load Capacity	Up to 150 kg (suitable for motorcycles up to 200cc)
System Overall Width	3600 mm – 4200 mm (customisable)
System Overall Depth	1900 mm – 2200 mm
System Overall Height	2400 mm – 2800 mm (based on ceiling clearance)
Upper Rack Lift Height	1400 mm – 1650 mm (from ground level)
Slot Width (per bike)	550 mm – 650 mm (customisable)
Slot Depth (per bike)	1800 mm – 2100 mm
Min. Ceiling Clearance	2600 mm (standard) 2800 mm (recommended)
Frame Material	MS Channel, Square Bar, Round Bar — ISI Grade
Platform / Ramp	GI Sheet 1.6 mm / Mild Steel Chequered Sheet
Surface Finish	Powder Coated (standard) Hot-Dip Galvanised (outdoor option)
Lift Mechanism	Spring-Counterbalance with Mechanical Assist — Both Sides
Locking System	Mechanical Pin-Lock / Gravity Lock on each upper and middle level
Operation Type	Manual (standard) Motorised option available
Entry / Exit	Independent per slot — no need to move adjacent bikes
Installation Type	Floor-anchored Wall-anchored Free-standing
Approx. System Weight	600 kg – 800 kg (fully assembled)
Colour Options	Standard: Grey, Blue, Yellow Custom RAL colours available
Warranty	12 months from date of commissioning / supply
Compliance	Designed as per IS/ISO structural safety standards

KEY FEATURES & BENEFITS



<p>6 Bikes, 1 System</p> <p>Park 3 bikes on Side A and 3 on Side B — 6 bikes in the same footprint as a standard 2-bike system.</p>	<p>Independent Access</p> <p>Each slot operates independently. Remove your bike without disturbing others on the same side.</p>	<p>No Power Required</p> <p>Spring-counterbalance mechanism enables effortless manual lifting. No electricity needed for standard operation.</p>
<p>Triple-Level Design</p> <p>Upper, Middle, and Lower slots per side maximise vertical space utilisation in basements and parking areas.</p>	<p>Corrosion Resistant</p> <p>GI sheet platforms and powder-coated steel construction ensure 10+ years of service life.</p>	<p>Safety Locking</p> <p>Mechanical locks on every upper and middle rack prevent accidental drop. Gravity lock engages automatically.</p>

SLOT ALLOCATION PLAN (6 Bikes)

Slot No.	Side	Level	Recommended Use	Load Capacity	Operation
1	A — Left	Upper	Light Motorcycle / Scooter / Bicycle	Up to 150 kg	Manual Lift
2	A — Left	Middle	Motorcycle / Scooter	Up to 150 kg	Manual Lift
3	A — Left	Lower	Heavy Motorcycle / SUV Scooter	Up to 150 kg	Ground Level
4	B — Right	Upper	Light Motorcycle / Scooter / Bicycle	Up to 150 kg	Manual Lift
5	B — Right	Middle	Motorcycle / Scooter	Up to 150 kg	Manual Lift
6	B — Right	Lower	Heavy Motorcycle / SUV Scooter	Up to 150 kg	Ground Level

IDEAL APPLICATIONS

	Corporate Offices	Hospitals & Clinics	Shopping Malls
Space-efficient parking for housing societies	Staff two-wheeler parking management	Visitor & staff bike parking	High-capacity retail pedestrian parking
IT Parks & Tech Hubs	Educational Institutions	Metro / Transit Hubs	Petrol Stations
Smart campus parking for employees	Student & faculty bicycle / bike parking	Park-and-ride two-wheeler zones	Customer convenience bike storage

AVAILABLE CONFIGURATIONS & CUSTOMISATION

Standard (6 Bikes)	3 + 3 Double-sided Manual operation Single unit
Expanded (12 Bikes)	2 units side-by-side 6 + 6 bikes Row installation
Motorised Option	Electric motor assist for upper rack lifting — single-phase AC



Custom Slot Width	550 mm to 750 mm per slot to accommodate wider motorcycles / cruisers
Outdoor Configuration	Hot-dip galvanised finish + weather-proof canopy option
Row Mount (12–30 Bikes)	Multiple units anchored in a single row — ideal for large parking zones
CCTV / Lock Integration	Optional numbered padlock provisions and CCTV bracket mount per slot
Custom Colours	Any RAL powder coat colour available — match your building's aesthetics

WHY CHOOSE HYDROMAX ENGINEERING ?

10+ Years Experience	500+ Projects Delivered	50+ Cities Served	100% Safety Compliance
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In-House Manufacturing	Precision-built at our Lucknow plant — full quality control at every stage
Custom Engineering	Tailored slot widths, heights, colours and configurations for any site
Branded Components	ISI-grade MS steel, Polycab wiring, trusted hardware throughout
End-to-End Service	Design → Manufacturing → Delivery → Installation → AMC support
Fast Delivery	3-week standard delivery from confirmed order + advance payment

TERMS OF SUPPLY & WARRANTY

Price Basis	Ex-Works Lucknow (EXW). Transportation & GST extra.
GST	18% applicable extra on invoice value.
Delivery	Within 3 weeks from confirmed PO + advance payment + drawing approval.
Warranty	12 months from commissioning / supply (whichever is earlier).
Payment Terms	60% advance with PO 30% before dispatch 10% after installation.
Offer Validity	10 days from quotation date.
Civil & Electrical	Floor anchoring, electrical supply (if motorised) in customer's scope.
After-Sales	AMC available post-warranty. Contact our service team for details.



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