ADDVERB

MULTI-PRO

MOTHER-CHILD SHUTTLE SYSTEM

Multi-Pro shuttle system is a versatile and fully automatic system for multi deep pallet storage. It comprises of a mother shuttle that runs perpendicular to storage lanes and launches the child shuttle which accesses the lanes to store and retrieve pallets. This multi-level system will be integrated with vertical lifts that carry the load to a designated level. Multi-Pro shuttle system gives high throughput leading to increased productivity.

Technical Specifications

General Specifications

Payload Capacity	1000 kg
Multi-Pro 0812 Standard Pallet	800 x 1200 mm (32" x 48")
Supported Pallet Range	800-1000 x 1100-1300 mm
Multi-Pro 1012 Standard Pallet	1000 x 1200 mm (40" x 48")
Supported Pallet Range	985-1080 x 1100-1300 mm
Multi-Pro 1212 Standard Pallet	1200 x 1200 mm (48" x 48")
Supported Pallet Range	1185-1280 x 1100-1300 mm
Multi-Pro 1214 Standard Pallet	1240 x 1440 mm (48" x 56")
Supported Pallet Range	1185-1280 x 1350-1450 mm
Positioning Accuracy	± 2 mm
Control	PLC Based



Technical Specifications

Speed and performance

Speed Unloaded	3 m/s (Mother shuttle)
	1.1 m/s (Child shuttle)
Speed Loaded	3 m/s (Mother shuttle)
	0.8 m/s (Child shuttle)



Safety

Safety bumpers, E-stops, Indication lights

Safety LiDAR (optional)

Accessories

Vertical Lift to transfer pallet to multiple levels

Buffer Conveyors, Shelving, Racking

Technical Specifications

Aisle Navigation

Barcode Reader

Communication & Integration

Wi-Fi (2.5 GHZ, 5 GHZ)

Power Supply

415 V (3P+PE) AC



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Key Benefits:

- Can operate between -30 to +45 degree Celsius
- In-house developed control system (WES) facilitates better planning
- Reduced operational costs through increased utilisation of space
- Seamless integration with the existing ERP/WMS systems

FEATURES

Storage Levels

Every loading level has one mother and one child shuttle. It can go up to 15* levels.

Swift Integration Load

Multi-Pro swiftly integrates with any existing WES, WMS, ERP, conveyors and lifts

Accurate Positioning System

Servo Encoder controls combined with absolute barcode positioning enable a higher level of positioning accuracy.

Operating Time

Runs on an AC Power supply through busbar for uninterrupted operations

Safety

Equipped with safety bumpers, indication lights, e-stops along with safety PLC for higher level safety.

Addverb Bot-Valley, Plot No.5, Sector-156
Noida, Uttar Pradesh-201310

automate@addverb.com

+91 9871590101