ADDVERB

MEDIUS

MULTI-LEVEL SHUTTLE

Addverb's dynamic shuttle system, Medius, performs automated storage and retrieval of totes and crates, maximising space and allowing up to 20* m high double-deep storage. Medius combined with a Goods-to-Person picking station enables an agile and ergonomic order fulfilment process.

Technical Specifications

General Specifications

Payload Capacity	30 kg
Shuttle Dimensions	1568 x 934 x 3800 mm
Gripper Extension	1342 mm
Tote Dimensions (LxWxH)	600 x 400 mm
Supported Range	150-800 x 350-400 mm



Communication & Integration

Wi-Fi	(2.5 GHz, 5 GHz)
Barcode Based Navigation	

Technical Specifications

Speed and performance

Loaded/Unloaded speed	3.1 m/s
Retrieval Cycle for Single Deep	6-7 s
Retrieval Cycle for Double Deep	12-13 s
Position Accuracy	±2 mm
Travel Positioning Accuracy	±2 mm through barcode/positioning system
Hoisting Positioning Accuracy	±2 mm through Encoder/Sensor positioning system



Safety

Over travel protection using limit switches

Fencing with safety doors

Technical Specifications

Accessories

Vertical Lift	To transfer cartons/totes to multiple levels
Buffer Conveyors, Shelving, Racking	



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Key Benefits:

- Swift movement along with transfer conveyor ensures quick turnaround cycles.
- The storage shelving system can go up to 20* m (customisable) and is easily scalable by adding more aisles and Medius.
- Fully autonomous system resulting in 24/7 fulfilment.
- Automatic braking system to ensure safe operations.

FEATURES

Operating Speed

Medius offers a carrying speed of 3.1 m/s in the travelling direction and 0.5 m/s in hoisting direction.

Storage Depth

Adept for single and double deep storage and retrieval.

Advance Analytics

The system provides advanced analytics on a regular basis for smart insights.

Operating Time

Runs on a continuous AC power supply for uninterrupted processes.

Swift Integration

Medius swiftly integrates with any existing WES, WMS, conveyors, and picking stations.

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