ADDVERB

DASH LINE

Assembly Line Robot

Dash Line is Addverb's assembly line robot for the future of manufacturing. It seamlessly transports motorcycle chassis through each stage of a next-generation assembly line. The robot can precisely handle tugging and material handling operations and are ready to meet various industry requirements with unmatched efficiency and adaptability.

Technical Specifications

General Specifications

Payload Capacity	250 kg
Towing Capacity	200 kg
Payload Type	2-Wheeler (Lifting) & Trolley (Tugging)
Payload Footprint	1,200 – 1,600 mm (Vehicle wheelbase ranging)
Dimensions	2,320 x 750 x 405 mm
Weight	500 kg
Ground Clearance	10 mm

Speed and Performance

Maximum Speed	0.04 m/s - 0.4 m/s
Turning Radius	In-place turning
Navigational Accuracy	+/- 10 mm
Operational Mode	Auto/Manual



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Technical Specifications

Communication & Integration

Fleet Management Software	Yes
Integration with 3rd party systems	Yes
Integration with ERP/MES	Yes
Wi-Fi Protocol & Frequency	2.4 GHz, 5 GHz (802.11 a/b/g/n/ac/ax)
5G Network Compatibility	Yes

Sensor Configuration

Navigation Sensor	QR Reader (1x Bottom)
Obstacle Detection Sensor	Safety 2D LiDAR (1x Front)
Audio and Visual	Buzzer, Safety Hazard Light



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Technical Specifications

Battery

Battery Specifications	LTO, 48V 45 Ah

Attachments and Accessories

Attachments	Lifter
Charging	Induction Based Charging & Manual Portable Charger
Accessories	Trolley



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Key Benefits:

- Eliminates dependency on conveyors, ensuring uninterrupted flow with no single failure point
- Adapts to layout changes or expansion with quick reprogramming and redeployment
- Cuts deployment and operating costs with seamless ERP/WMS integration
- Enhances productivity with synchronized lifting for ergonomic, safe assembly operations
- Scales easily by adding more robots without extensive infrastructure upgrades

FEATURES

24/7 Continuous Operations

Dash Line operates round-the-clock, moving chassis and materials reliably through every assembly stage.

Precision Docking

High accuracy docking (+/- 10 mm) ensures smooth chassis alignment and error-free operations.

Flexible Deployment

Supports multiple use cases - material movement, tugging, and chassis handling, through configurable software and markers.

Safety & Ergonomics

Dual scissor lifters optimize chassis height for workers, while integrated sensors prevent collisions and ensure safe operations.

Quick Scale-up

New robots can be seamlessly added to increase throughput, without conveyor extensions or major changes

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