

OMNI-STACKER

AB-FLB-OS10

ATOMBOTIX



Cost Competitive & Modular Design



With market proven supply chain, it is perfect for prototypes & scaling

Fully Electric, Optimized for Automation



Motor/Driver/Encoder included

Lithium-ion Powered



Built-in LFP battery, modular design, longer battery life, faster charging, higher capacity availability

Pre-Designed Sensor Brackets



Ensured consistency, no need for self modification

Extreme Space Saver



Omnidirectional Driving, Extreme space saver

Slim Size & Compact Manuever



Super compact space requirement allows more available space of the warehouse and less requirement for the aisle

Open Design and Protocols



Open mechanical & electrical database, open control protocol

Model	AB-FLB-OS10
Feature	
Power Type	Electric
Driving Style	AGV
Rated Load Capacity (Q)	1000 kg
Load Center Distance (C)	600 mm
Front Suspension Distance (x)	907 mm
Wheelbase (y)	1146 mm
Weight	
Self Weight (Including Battery)	770 kg
Bridge Load at Full Load, Driving Side/Load-Bearing Side	910/860 kg
Bridge Load When Unloaded, Driving Side/Load-Bearing Side	640/130 kg

Wheel	
Tire Type	Polyurethane
Tire Size, Drive Wheel	Φ230×75 mm
Tire Size, Load-Bearing Wheels	Φ75×32 mm
Tire Size, Balance Wheel	Φ115×55 mm
Number of Wheels, Drive Side (X=Drive Wheels)/Load-Bearing Side	1x-2/4
Track Width, Drive Side (b10)	538 mm
Track Width, Load-Bearing Side (b11)	470 mm
Basic Dimensions	
Total Height (h1)	2035 mm
Total Width	980 mm
Total Length (L1)	1644 mm
Vehicle Length (Excluding Fork) (L2)	475 mm
Free Lifting Height (h2)	0
Lifting Height (h3)	1600 mm
Door Frame Deployment Height (h4)	2075 mm
Fork Surface Min. Height(When the Fork is at its Lowest) (h5)	100 mm
Charging Pad Height (h6)	500 mm
Fork Size (l/e/s)	1150/210/60 mm
Fork Outer Width (b5)	680 mm
Mini. Ground Clearance of the Vehicle Body (m1)	31.5 mm
Mini. Turning Radius (Wa)	1433 mm
Mini. Right Angle Stacking Channel Width	1644+200 mm
Right Angle Stacking Aisle Width, Pallet 800×1200 (1200 Placed Along The Fork)	
Right Angle Stacking Aisle Width, Pallet 1000×1000 (1200 Placed Along The Fork)	
Right Angle Stacking Channel Width, Pallet 1000 × 1200 (1200 Placed Along The Fork)	1675+200 mm
Max. Lifting Height	3000 mm
Performance	
Driving Speed, Full Load/Empty Load	5/5 km/h
Lifting Speed, Full Load/Empty Load	115/170 mm/s
Descent Speed, Full Load/Empty Load	160/125 mm/s
Climbing Performance, Full Load/Empty Load	3%/5%
Driving Brake Mode	Electromagnetic braking

Motor	
Drive Motor Power	1.5 kw
Power of Lifting Motor	3.8 kw
Steering Motor Power	0.4 kw
Battery Type	Llithium iron phosphate
Drive Motor Type	24 V asynchronous AC motor
Steering Motor Type	48 V DC Servo motor
Lifting Mechanism	Hydraulic control
Communication Protocol	CAN
Battery	
Weight of Battery	58 kg
Battery Type	Lithium iron phosphate
Battery Voltage/Rated Capacity	48/105 V/AH

