

COMPACT STACKER

AB-FLB-CS14(24/48V)

ATOMBOTIX



Cost Competitive & Modular Design



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

Fully Electric, Optimizaed 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



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



Open mechanical & electrical database, open control protocol

Slim Size & Compact Manuver

Open Design and Protocols

Model	AB-FLB-CS14 (24V)	AB-FLB-CS14 (48V)
Feature		
Power Type	Electric	
Driving Style	AGV	
Rated Load Capacity (Q)	1 400 kg	
Load Center Distance (C)	600 mm	
Front Suspension Distance (x)	648 mm	
Wheelbase (y)	877 mm	
Weight		
Self Weight (Including Battery)	680 kg	
Axle Load (Full Load), Driving Side/Load-Bearing Side	730/1350 kg	
Axle Load (Empty load), Driving Side/Load-Bearing Side	450/230 kg	

Wheel

Tire Type	Polyurethane
Tire Size, Drive Wheel	Φ230×75 mm
Tire Size, Load-Bearing Wheels	Φ80×54 mm
Tire Size, Balance Wheel	Φ115×55 mm
Number of Wheels, Drive Side (x=Drive Wheels)/Load-Bearing Side	1x-2/4
Front Wheel Track, Drive Side (b10)	538 mm
Rear Wheel Track, Load-Bearing Side (b11)	500 mm

Basic Dimensions

Total Height (h1)	2035 mm
Total Width	985 mm
Total Length (L1)	1637 mm
Vehicle Length (Excluding Fork) (L2)	467 mm
Free Lifting Height (h2)	0 mm
Lifting Height (h3)	1600 mm
Extended Mast Min. Height (h4)	2085 mm
Fork Surface Min. Height (When the Fork is at its Lowest) (h5)	85 mm
Charging Pad Height (h6)	500 mm
Fork Size (l/e/s)	1150/180/55 mm
Fork Outer Width (b5)	680 mm
Min. Ground Clearance (m1)	31.5 mm
Min.Turning Radius (Wa)	1180 mm
Min. Right Angle Stacking Aisle Width	1800+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 Aisle Width, Pallet 1000×1200 (1200 Placed Along The Fork)	1925+200 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

Motion

Drive Motor Power	1.25 kw	1.5 kw
Power of Lifting Motor	3.0 kw	3.8 kw
Steering Motor Power	0.4 kw	0.4 kw
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	58kg	
Battery Type	Lithium iron phosphate	
Battery Voltage/Rated Capacity	24/210 V/AH	48/105 V/AH

