

COMPACT STACKER

AB-FLB-CS30

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

Slim Size & Compact Manuver



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

Open Design and Protocols



Open mechanical & electrical database, open control protocol

Model	AB-FLB-CS30
Feature	
Power Type	Electric
Driving Style	AGV
Rated Load Capacity (Q)	3000 kg
Load Center Distance (C)	600 mm
Front Suspension Distance (x)	768 mm
Wheelbase (y)	1421 mm
Weight	
Self Weight (Including Battery)	1860 kg
Axle Load (Full Load), Driving Side/Load-Bearing Side	1778/3082 kg
Axle Load (Empty load), Driving Side/Load-Bearing Side	1395/465 kg

Wheel	
Tire Type	Polyurethane
Tire Size, Drive Wheel	Φ230×75 mm
Tire Size, Load-Bearing Wheels	Φ100×80 mm
Tire Size, Balance Wheel	Φ140×60 mm
Number of Wheels, Drive Side (x=Drive Wheels)/Load-Bearing Side	1x-2/4
Front Wheel Track , Drive Side (b10)	440 mm
Rear Wheel Track, Load-Bearing Side (b11)	930 mm
Basic Dimensions	
Total Height (h1)	2500 mm
Total Width	1348 mm
Total Length (L1)	2073 mm
Vehicle Length (Excluding Fork) (L2)	/
Free Lifting Height (h2)	0
Lifting Height (h3)	3000 mm
Extended Mast Min. Height (h4)	4030 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)	1150/240/70 mm
Fork Outer Width (b5)	680 mm
Min. Ground Clearance (m1)	25.5 mm
Min. Turning Radius (Wa)	1750 mm
Min. Right Angle Stacking Aisle Width	/
Right Angle Stacking Aisle Width, Pallet 800×1200 (1200 Placed Along The Fork)	2350+200 mm
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)	2400+200 mm
Performance	
Driving Speed, Full load/Empty Load	5/6 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	2.2 kw
Power of Lifting Motor	3.8 kw
Steering Motor Power	0.6 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	100 kg
Battery Type	Lithium iron phosphate
Battery Voltage/Rated Capacity	48/210 V/AH

