

# COMPACT STACKER

AB-FLB-CS20(24/48V)

# 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

## Slim Size & Compact Manuver



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-CS20
<b>Feature</b>	
Power Type	Electric
Driving Style	AGV
Rated Load Capacity (Q)	2000 kg
Load Center Distance (C)	600 mm
Front Suspension Distance (x)	649 mm
Wheelbase (y)	1056 mm
<b>Weight</b>	
Self Weight (Including Battery)	1200 kg
Axle Load (Full Load), Driving Side/Load-Bearing Side	1020/2180 kg
Axle Load (Empty load), Driving Side/Load-Bearing Side	940/260 kg

<b>Wheel</b>	
Tire Type	Polyurethane
Tire Size, Drive Wheel	Φ230×75 mm
Tire Size, Load-Bearing Wheels	Φ80×65 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)	630 mm
Rear Wheel Track, Load-Bearing Side (b11)	500 mm
<b>Basic Dimensions</b>	
Total Height (h1 )	2235 mm
Total Width	1121 mm
Total Length (L1)	1896 mm
Vehicle Length (Excluding Fork) (L2)	726 mm
Free Lifting Height (h2 )	0 mm
Lifting Height (h3)	3000 mm
Extended Mast Min. Height (h4)	3580 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)	1150/180/75 mm
Fork Outer Width (b5)	680 mm
Min. Ground Clearance (m1)	31 mm
Min. Turning Radius (Wa)	1440 mm
Min. Right Angle Stacking Aisle Width	2060+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)	2185+200 mm
<b>Performance</b>	
Driving Speed, Full load/Empty Load	5/5 km/h
Lifting Speed, Full Load/Empty Load	90/120 mm/s
Descent Speed, Full load/Empty load	120/110 mm/s
Climbing Performance, Full Load/Empty Load	3%/5%
Driving Brake Mode	Electromagnetic braking

## Motion

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

