

REACH STACKER

AB-FLB-RS14

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.



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 Manuever

Open design and protocols

Model AB-FLB-RS14

General

Power Type	Electric
Driving Style	Automatic Guided / Manual Control
Kinematics	Single Steering Wheel
Rated Load Capacity	1400 kg
Load Center Distance	500 mm
Front Overhang Distance	130 mm
Wheelbase	1170 mm

Weight

Self Weight (Including Battery)	1890 kg
Axle Load (Full Load), Driving Side/Load-Bearing Side	1316/1974 kg
Axle Load (Empty load), Driving Side/Load-Bearing Side	1323/567 kg

Wheel	
Tire Type	Polyurethane
Tire Size, Drive Wheel	Φ230×75mm
Tire Size, Load-Bearing Wheels	Φ115×55 mm
Tire Size, Balance Wheel	Φ210×85 mm
Number Of Wheels, Drive Side (x=Drive Wheels)/Load-Bearing Side	1x-2/2
Front Wheel Track , Drive Side	520 mm
Rear Wheel Track, Load-Bearing Side	970 mm
Basic Dimensions	
Size L×W×H	2120×1184×1881 mm
Vehicle Length (Excluding Fork)	841 mm
Free Lifting Height	0
Lifting Height	1600 mm
Extended Mast Max Height	2188 mm
Fork Surface Minimum Height (When The Fork Is At Its Lowest)	45 mm
Charging Pad Height	500 mm
Fork Size	1050/120/40 mm
Fork Outer Width	620 mm
Minimum Ground Clearance	32 mm
Minimum Turning Radius	1481 mm
Minimum Right Angle Stacking Aisle Width	2033+200 mm
Right Angle Stacking Aisle Width, Pallet 1000×1000 (1200 Placed Along The Fork)	2097+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	114/114 mm/s
Climbing Performance .Full Load/Empty Load	3%/5%
Motion	
Drive Motor Power	2.2 kw
Power Of Lifting Motor	3.0 kw
Steering Motor Power	0.4 KW
Drive Motor Type	24V asynchronous AC motor
Driving Brake Mode	Motor reverse braking
Steering Motor Type	48V DC Servo motor
Lifting Mechanism	Hydraulic
Driver Communication	CAN



Battery	
Weight Of Battery	58 kg
Battery Type	LFP (Lithium Iron Phosphate)
Battery Voltage/Rated Capacity	24/210 V/Ah
BMS Communication	RS485/CAN

