

REACH STACKER

AB-FLB-RS14

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-RS14
Feature	
Power Type	Electric
Driving Style	AGV
Rated Load Capacity (Q)	1400 kg
Load Center Distance (C)	500 mm
Front Suspension Distance (x)	130 mm
Wheelbase (y)	1170 mm
Weight	
Self Weight (Including Battery)	1890 kg
Bridge Load At Full Load, Driving Side/Load-Bearing Side	1316/1974 kg
Bridge Load When Unloaded, Driving Side/Load-Bearing Side	1323/567 kg

Wheel	
Tire Type	Polyurethane
Tire Size, Drive Wheel	Φ 230×75 mm
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
Track Width, Drive Side (b10)	520 mm
Track Width, Load-Bearing Side (b11)	970 mm
Basic Dimensions	
Total Height (h1)	2120 mm
Total Width	1184 mm
Total Length (L1)	1881 mm
Vehicle Length (Excluding Fork) (L2)	841 mm
Free Lifting Height (h2)	0 mm
Lifting Height (h3)	1600 mm
Max. Lifting Height	3000 mm
Door Frame Deployment Height (h4)	2188 mm
Fork Surface Minimum Height(When The Fork Is At Its Lowest) (h5)	45 mm
Charging Pad Height (h6)	500 mm
Fork Size (l/e/s)	1050/120/40 mm
Fork Outer Width (b5)	620 mm
Min. Ground Clearance of The Vehicle Body (m1)	32 mm
Min. Turning Radius (Wa)	1481 mm
Min. Right Angle Stacking Channel Width	2033+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)	2097+200 mm
Right Angle Stacking Channel Width, Pallet 1000 × 1200 (1200 Placed Along The Fork)	
Performances	
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%
Driving Brake Mode	Electromagnetic braking

Motor	
Drive Motor Power	2.2 kw
Power of Lifting Motor	3.0 kw
Steering Motor Power	0.4 kw
Battery Type	lithium 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	24/210 V/Ah

