

REACH STACKER

AB-FLB-RS20 II & AB-FLB-RS20III

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 isle



Open mechanical & electrical database, open control protocol

Slim Size & Compact Manuver

Open Design and Protocols

Model	AB-FLB-RS20 II	AB-FLB-RS20III
Feature		
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)	1301 mm	1391 mm
Weight		
Self Weight (Including Battery)	/	
Bridge Load At Full Load, Driving Side/Load-Bearing Side	/	
Bridge Load When Unloaded, Driving Side/Load-Bearing Side	/	

Wheel		
Tire Type	Polyurethane	
Tire Size, Drive Wheel	Φ230×75 mm	
Tire Size, Load-Bearing Wheels	Φ80×80 mm	
Tire Size, Balance Wheel	Φ115×55 mm	
Number of Wheels, Drive Side (X=Drive Wheels)/Load-Bearing Side	1x-2/4	
Track Width, Drive Side (b10)	690 mm	
Track Width, Load-Bearing Side (b11)	500 mm	
Basic Dimensions		
Total Height (h1)	2180 mm	
Total Width	0	1585 mm
Total Length (L1)	3000 mm	4500 mm
Vehicle Length (Excluding Fork) (L2)	3580 mm	5080 mm
Free Lifting Height (h2)	85 mm	
Lifting Height (h3)	500 mm	
Door Frame Deployment Height (h4)	2197 mm	2287 mm
Fork Surface Min. Height(When the Fork is at its Lowest) (h5)	1027 mm	1117 mm
Charging Pad Height (h6)	1161 mm	
Fork Size (l/e/s)	1150/180/55 mm	
Fork Outer Width (b5)	680 mm	
Min. Ground Clearance of The Vehicle Body (m1)	31.5 mm	
Min. Turning Radius (Wa)	1736 mm	1826 mm
Min. Right Angle Stacking Channel Width	2355+200 mm	2455+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 Channel Width, Pallet 1000 × 1200 (1200 Placed Along The Fork)	2480+200 mm	2570+200 mm
Max. Lifting Height	3000 mm	
Performance		
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	5/8	
Driving Brake Mode	Electromagnetic braking	

Motor

Drive Motor Power	1.5 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

