

TUGGER

AB-FLB-TG50

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-TG50
Feature	
Power Type	Electric
Driving Style	AGV
Rated Load Capacity (Q)	3000 kg
Load Center Distance (C)	/
Front Suspension Distance (x)	/
Wheelbase (y)	1085 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	Φ250 × 100 mm
Tire Size, Load-Bearing Wheels	Φ210 × 85 mm
Tire Size, Balance Wheel	/
Number of Wheels, Drive Side (X=Drive Wheels)/Load-Bearing Side	1x-2
Track Width, Drive Side (b10)	/
Track Width, Load-Bearing Side (b11)	719 mm
Basic Dimensions	
Total Height (h1)	1966.5 mm
Total Width	1060 mm
Total Length (L1)	1720 mm
Vehicle Length (Excluding Fork) (L2)	/
Free Lifting Height (h2)	/
Lifting Height (h3)	/
Door Frame Deployment Height (h4)	/
Fork Surface Min. Height(When the Fork is at its Lowest) (h5)	1289 mm
Charging Pad Height (h6)	500 mm
Fork Size (l/e/s)	/
Fork Outer Width (b5)	/
Min. Ground Clearance of The Vehicle Body (m1)	55 mm
Min. Turning Radius (Wa)	1422 mm
Min. Right Angle Stacking Channel Width	/
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)	/
Max. Lifting Height	/
Performance	
Driving Speed, Full Load/Empty Load	5/6 km/h
Rated Traction Force	1000
Maximum Traction Force	3200
Climbing Performance, Full Load/Empty Load	5%/8%
Driving Brake Mode	Electromagnetic braking

Motor	
Drive Motor Power	3 kw
Power of Lifting Motor	/
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	/
Communication Protocol	CAN
Battery	
Weight of Battery	58 kg
Battery Type	Lithium iron phosphate
Battery Voltage/Rated Capacity	24/210 V/AH

