
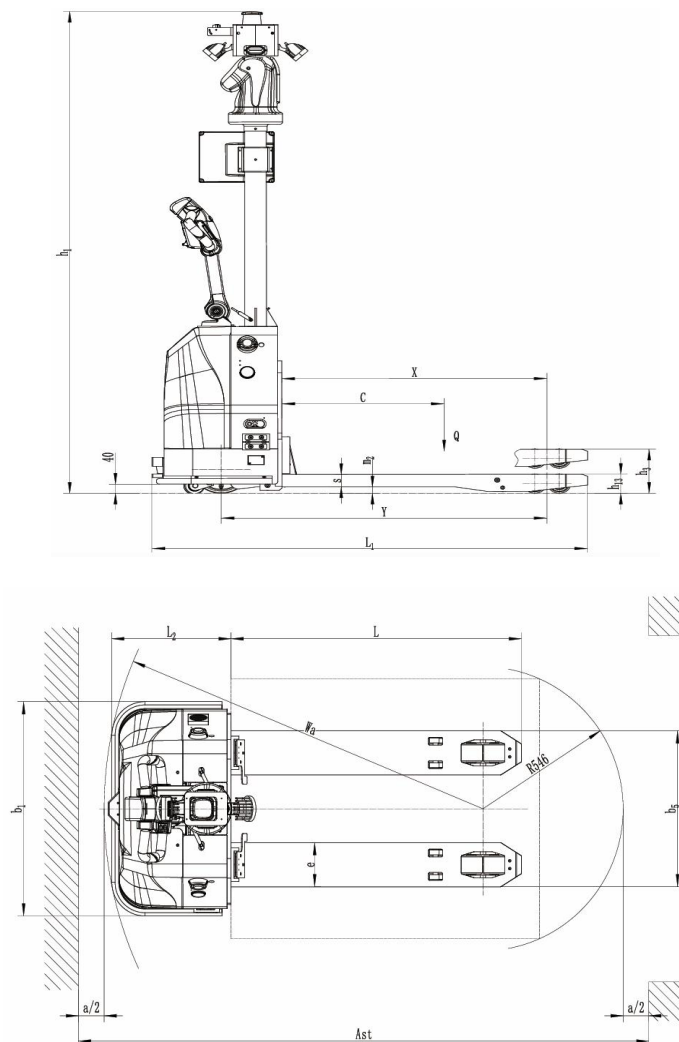



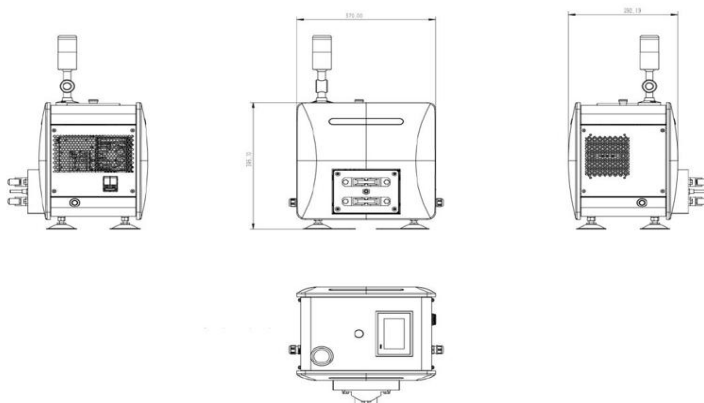
ATEAGO ROBOTIKS L1 Self-Driving Autonomous Forklift			
picture			
Basic Specifications	Rated load	Q (kg)	1500
	Vehicle weight (including battery)	kg	350
	Vehicle length (including safety edge)	L1 (mm)	1610
	Vehicle width (including safety edge)	b1 (mm)	824
	Navigator bracket reference height	h1 (mm)	2120
	Load center distance	C (mm)	600
	Loading distance (load-bearing length)	X (mm)	980
	Wheelbase	y (mm)	1210
Forks	Fork size	l/e/s (mm)	1150/170/55
	Fork outer distance	b5 (mm)	685 (customizable in various sizes such as 685, 600, 540, etc.)
	Lifting height	h3 (mm)	110
	Minimum height of fork surface from ground	h13 (mm)	90
	Minimum ground clearance (when fork raised)	m1 (mm)	40
Sports performance	Front and rear straight channel width (pallet is 1200 length × 1000 width)	Ast (mm)	1200
	Width of right-angle turning channel (pallet is 1200 length × 1000 width)	Ast (mm)	2200
	Width of single-side loading and unloading channel (pallet is 1200 length × 1000 width)	Ast (mm)	2400
	Turning radius (including safety edge)	Wa(mm)	1500
	Travel speed, full/empty	m/s	1.0/1.5
	Lifting speed, full/empty	mm/s	40/50
	Lowering speed, full/empty	mm/s	50/40
	Maximum climbing ability, full/no load (S2-5min)	%(tanθ)	5/10
	Cross-channel capability	mm	≤20
	Navigation	Laser SLAM navigation: free navigation/track navigation/hybrid navigation/follow	
	Whether it supports outdoor operation	Supports use within the park where conditions are met	
	Positioning accuracy	±5(mm)/±1(°)	
	wheel	Braking method	electromagnetic
Tire type, drive side/load side		Polyurethane	
Tire size, load side		mm	φ80*70
Tire size, drive side		mm	φ210*75
Balance wheel size		mm	φ72*23
Number of wheels, front/rear (x = drive wheels)		1x+4/4	
Track width, drive side		mm	470
Wheelbase, load-bearing side		mm	520
drive	Driving motor power (servo motor)	kw	1
	Lifting motor power, (S3-10%) (DC compound excitation)	kw	0.8
	Steering system	Electric steering (servo)	
	Steering motor (servo motor)	kw	0.4
Usage Environment	Waterproof and dustproof level	Vehicle IP43	
	Operating temperature	-10°C~65°C; UV-resistant; corrosion-resistant	
	Storage temperature	-20°C~65°C	
	Charging temperature	5~40°C (Indoor)	
Display & Touch	10.1-inch screen, resolution 1280*800		
Network Communication	4G	Support, FDD B1/B3/B5/B8, TDD B38/39/30/41	
	5G	Support, 5G module needs to be customized	
	Traffic quota	2G per robot per month	
	WiFi	Wifi module (AP6256) 2.4G&5GHz, supports 802.11a/b/g/n/ac protocols	
	Bluetooth	Bluetooth 5.0, BLE	
operating system	Android 11+ Linux(Ubuntu)		
sensor	Navigation laser*1	Detection range: 360°, detection distance: 0.05 ~ 40m	
	Obstacle avoidance laser*2	Detection range: 200°, detection distance: 0.05 ~ 40m	
	Fork tip obstacle avoidance laser*1	Detection range: 180°, detection distance: 0.05 ~ 12m	
	Depth camera*2	FOV: H 72°(±3°) V 50.5°(±3°), detection distance: 0.3 ~ 4m	
	RGB camera*2	215° FOV, resolution 1280*720	
	IMU	6DOF; rate dynamic range: ±2000dps; accuracy: 0.01 degrees	
	Wheel speed meter	odometer	
Charging & battery life	Battery	Charging voltage: 24V	
		capacity:100Ah	
		Endurance: 7-8 hours of deployment of charging piles to achieve 7*24h service	
		Charging method: automatic/manual	
		Battery weight: 30kg	
	Charging Station	Battery type: Lithium iron phosphate	
		0%-100% charging time: 2.5 hours	
		For details on charging piles, please see the "Charging piles" table	
		Dimensions (H*W*D): 370mm*292mm*395mm	
		Weight: 30kg	
Input: 100-240V ac ~ 50/60 Hz			
Output: 24V dc == 25-50A			

control	Chassis CPU	ARM® Quad-core Cortex-A76 2.4Ghz + ARM® Quad-core Cortex-A55 1.8Ghz
	Screen CPU	ARM® Quad-core Cortex-A55 2.0Ghz
	Chassis GPU	Mali-G610
	Screen GPU	Mali-G52
	Chassis memory	RAM: 8GB dual-channel LPDDR4; ROM: 64GB high-speed eMMC
	Screen Memory	RAM: 2GB dual-channel LPDDR4; ROM: 16GB high-speed eMMC
	Image Processing	Support OpenGL ES 1.1/2.0/3.0, OpenCL1.2, DirectX11 Built-in high-performance 3D acceleration hardware H.264/H.265/VP9 up to 4Kx2K@60fps H.264/H.265 decoder supports 10bit decoding 1080P multi-format video decoding, support H.264, VP8 and MVC
Interaction	Indicator Lights	led
	Speaker (voice module)	2
	Blue light	With clearance lights
	Emergency stop button	2 support TTS/audio stream output
Safety	Anti-collision strip	Bottom front + bottom side
	Pallet arrival detection	Rear fork root
Extensions	Peripherals	Elevators, automatic doors, notification lights and speakers, pagers, pads, follow-up bracelets, rollers, shelves, pallets
Software related	Mini Programs, APPs	WeChat remote management, the applet can realize functions such as issuing robot task instructions, map
	Robot Management Big Data Cloud Platform	Robot user rights allocation and business management; operational data analysis
	Remote monitoring platform	Real-time status monitoring of robots; real-time fault alarm and remote processing;
	Remote deployment management platform	Remote deployment is possible, and the robot can remotely scan and edit the map
	Remote dispatch management platform	Remote cross-space scheduling
	Real-time data visualization screen	Display the real-time status and operation statistics analysis of robots under different businesses



ATEAGO ROBOTIKS L1 Forklift Automatic Charging Station	
picture	
Electrical parameters	
Input voltage	100-240Vac, ±20%
Input voltage frequency	50/60Hz, ±5Hz
Charging voltage	24Vdc
Charging Current	25~50A
Charging power	1.2kW
efficiency	≥92%@220Vac50-100%Load (up to 93%)
Power Factor	≥0.95@220Vac50-100%Load
Harmonic current THD	≤5%
Voltage stabilization accuracy	≤±1%
Steady flow accuracy	≤±1%
Input and output interface	
Input power cord	9A AC power cord, 3 meters long (including internal wiring length)
Automatic charging port	100A copper diode brush block
Manual charging port	50A Anderson plug connector, gray, cable length 3 meters (including internal wiring length)
Communication Port	
Communication with BMS	none
Reserved Ports	CAN Bus (can communicate with the battery) RS485 one channel (optional to Wi-Fi module) One Ethernet port (to connect to the backend system)
Human Machine Interface	
touchscreen	4.3 inches
Indicator Lights	Green: Standby/Full charge Yellow: Charging Red: Fault
Mechanical parameters	
Install	Floor-standing
Dimensions (H*W*D)	370mm*292mm*395mm
Brush block extension stroke	No extension (customizable)
Height of brush block center from ground	Height 130mm, fine-tuned by foot cup ±30mm
Protection level	IP20
Cooling method	Forced cooling
Environmental parameters	
Operating temperature	-20℃ ~ 45℃
Storage temperature	-40℃ ~ 70℃
Operating humidity	0~95%, no condensation
Altitude	≤2000m
Protection function	
Emergency stop button	Press to stop charging, rotate to reset
Leakage protection	AC type leakage protection
Communication interruption protection	When charging is set to CAN communication, if the communication is interrupted or timed out for 5s, charging will stop
General protection	Input over-voltage and under-voltage protection, output over-voltage protection, output over-current protection, short circuit protection, grounding protection, over-temperature protection, telescopic motor stall protection, battery anti-reverse protection

Charger size



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