



AMP-S

Agile Mobile Platform

Mecanum Series



Why Use AMP - S?

Flexible

Mecanum wheels for Omni-directional mobile control, flexible turning

Intelligent

3D mapping, autonomous navigation, and multiple waypoints missions.
Avoiding obstacle and tracking

Lifting Device

Lifting device allowing robot to lift up whole shelf from beneath, saving space and labor

Long Battery Life

Battery life of 6 hours full loaded

User Friendly

User friendly human-machine interaction, supporting multiple remote control systems such as Android, iOS.

Customizable Design

Easier to integrate custom sensors and accessories
Open software

Specifications

Dimension	36.22" x 24.4" x 9.84"
Weight	220 lbs.
Max Payload	550 lbs.
Wheel diameter	8 in
Maximum speed	1m/s
Motor power	4 x 400w
Grade ability	$\geq 10^\circ$
Running time (full-load)	8h
Battery type	Lithium battery (40ah)
Main voltage	48v
Breaking time	1s
Acceleration time	<2s
Lifting height	2 in
Obstacle avoidance (optional)	Ultrasonic sensor
Navigation sensor (optional)	(1) Magnet sensor; (2) Laser scanner
Centralized control (optional)	Remote PC server
Automatic control (optional)	(1) Magnet-based navigation; (2) Laser-based navigation
Manual control (optional)	(1) Industrial joystick; (2) Tablet/smartphone
Communication mode(optional)	(1) Bluetooth; (2) WIFI; (3) 2.4G wireless control; (4) Wired control
Terrain	Smooth, clean