

WJ-R-1 — Wheeled Fully-Electric Autonomous Mower

Professional wide-deck, zero-emission turf platform · 790 mm cut · 118 kg

A wheeled, fully-electric, fully-autonomous mower for clean, manicured professional turf — quiet, with no exhaust and no boundary wire, safe to run around the public all day.

- FULL ELECTRIC
- 790 mm CUT
- ZERO EMISSION
- 4WD ZERO-TURN



KEY FEATURES

- 48V LiFePO4 fully electric**, zero emission & low noise — ideal for airports, parks, estates and noise-sensitive municipal sites
- 790 mm twin-blade deck, 850 W × 2**, cutting height 20–100 mm; peak efficiency up to 2,000 m²/h
- RTK-GNSS autonomy** with self-developed path planning, no boundary wire; multi-zone scheduling
- 4WD in-situ zero-turn** — four-wheel differential steering threads around trees, beds and obstacles
- Removable battery, ~2 h per charge (up to 2.5 h) / ~4,000 m² per pack**; not hot-swappable — the unit is powered off and the pack exchanged via the rear locking pin; auto-charging dock returns, recharges and resumes work automatically
- LiDAR fusion obstacle avoidance** for people, animals and debris; remote + APP control with alarms

TECHNICAL SPECIFICATIONS

Platform	Wheeled 4WD fully electric, zero emission	Net Weight	118 kg
Cutting Width	790 mm	Cutting Height	20–100 mm (lifting deck)
Blades	Twin blades, 850 W × 2	Blade Speed	3,000 rpm
Peak Efficiency	~2,000 m²/h	Travel Speed	0–6 km/h
Steering	Four-wheel differential, in-situ zero-turn	Battery	LiFePO4 48V / 48Ah
Endurance	~2 h per charge, up to 2.5 h (~4,000 m²)	Battery Swap	Removable pack; cold swap only (power off, rear locking pin) — not hot-swappable
Fast Charger	20A, ~2 h full charge (included)	Auto Charging Dock	Included — auto return, recharge and resume
Navigation	RTK-GNSS autonomous, self-developed path planning	Obstacle Avoidance	LiDAR fusion (dynamic obstacles)
Control	Large-screen 2.4G remote + mobile APP with alarms	Operating	Autonomous, scheduled, multi-zone

STANDARD SYSTEMS (INCLUDED WITH EVERY UNIT)

RTK-GNSS autonomous navigation with self-developed path planning — no boundary wire · LiDAR fusion obstacle avoidance for dynamic obstacles (people, animals, debris) · Large-screen 2.4G remote controller + mobile APP with alarms · Removable lithium battery pack (cold swap; not hot-swappable) · 20A fast charger · Auto charging dock with automatic return, recharge and resume

TYPICAL APPLICATIONS

Airports & Municipal Parks

Large Estates & Campuses

Sports Turf & Green Belts

Professional Landscaping

Zero-Emission Urban Sites