

WJ-R-3 — Compact Wheeled Fully-Electric Autonomous Mower

Lightweight compact commercial platform · 450 mm cut · 62 kg

A compact, wheeled, fully-electric autonomous mower for clean, quiet upkeep of commercial properties and facility grounds — no exhaust, no boundary wire, safe to run around the public all day.

- FULL ELECTRIC
- 450 MM CUT
- COMPACT 62 KG
- IP54



KEY FEATURES

- **Compact 62 kg wheeled 4WD fully-electric unit** — nimble in tight spaces, easy to transport and deploy.
- **450 mm straight-blade deck, 800 W**, cutting height 20–70 mm; peak efficiency up to 1,500 m²/h.
- **IP54, low noise & zero emission** — suitable for noise-sensitive and built-up areas.
- **4WD in-situ turning** — four-wheel differential steering threads around trees, beds and obstacles with a small footprint.
- **Swappable battery, ~2.5 h per charge (~3,750 m²)**; the pack is exchanged for continuous work; auto-charging dock returns, recharges and resumes automatically.
- **RTK-GNSS autonomy** with self-developed path planning, no boundary wire; multi-zone scheduling · **LiDAR obstacle avoidance**; remote + APP control with alarms.

TECHNICAL SPECIFICATIONS

Platform	Compact wheeled 4WD fully electric, zero emission	Net Weight	62 kg
Cutting Width	450 mm	Cutting Height	20–70 mm (lifting deck)
Blade	Manganese-steel straight blade, 800 W	Blade Speed	3,000 rpm
Peak Efficiency	~1,500 m²/h	Travel Speed	0–6 km/h
Max Climbing Angle	≤ 20°	Battery	Ternary lithium 48V
Endurance	~2.5 h per charge (~3,750 m²)	Battery Swap	Swappable pack for continuous work
Fast Charger	20A, ~2.5 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)
Protection	IP54, low noise, zero emission	Operating	Autonomous, scheduled, multi-zone
Control	Large-screen 2.4G remote + mobile APP with alarms		

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 · Swappable lithium battery pack · 20A fast charger · Auto charging dock with automatic return, recharge and resume.

TYPICAL APPLICATIONS

- Commercial Properties & HOA Common Areas
- Factory & Facility Grounds
- Roadside Green Belts
- Small Parks & Gardens
- Noise-Sensitive Urban Sites