

Autonomous Zero-Emission Mowing for Professional Green Spaces

The fully-electric WANJI R1 keeps parks, airports, campuses, estates and sports turf immaculate — quietly, with no exhaust, and without boundary wire or a full crew.

WANJI MACHINERY · EXPORT SALES ARM OF THE MANUFACTURING GROUP

Professional green spaces have to be cut on schedule, to a high finish, and increasingly without noise or exhaust. Doing it with combustion ride-ons and manual crews is costly, hard to staff and increasingly locked out of low-emission urban and municipal tenders. The WANJI **R1** is built for this work: a **wheeled, fully-electric, fully autonomous mower** that delivers a clean, manicured cut quietly and safely around the public.

The problems on site



Noise & emission rules

Urban, airport and municipal sites increasingly restrict combustion mowers and early-morning noise; diesel crews fail low-emission tender criteria.



Labor is short & costly

Finding and keeping reliable mowing crews for large, recurring areas is expensive; absenteeism breaks the schedule.



Fine turf needs a clean cut

Parks, sports fields and estates demand an even, manicured finish — rough brush hogs and ride-ons leave a poor surface.



Obstacles everywhere

Trees, benches, paths, signage and the public require precise, safe maneuvering rather than straight-line mowing.



Multi-zone scheduling

Large sites need many zones cut on different cycles, on time, with documented coverage across the season.



Fuel & maintenance up

Rising fuel cost and engine servicing keep eroding margins on routine mowing contracts.

The WANJI R1 — built for clean, quiet, precise professional turf

790 mm wide deck, twin blades

Wide cut for high productivity with an even, manicured finish; peak efficiency ~2,000 m²/h; 20–100 mm lift deck.

48V LiFePO4, zero emission

No exhaust fumes — safe to run around people, buildings and the public all day.

Quiet electric operation

Mow early mornings and near offices, hospitals, schools and residences without noise complaints.

4WD in-situ zero-turn

Four-wheel differential steering turns on the spot and threads around trees, beds and obstacles.

Fully autonomous, no boundary wire

RTK-GNSS navigation maps each zone and runs scheduled routes; LiDAR avoidance detects people and debris.

Auto dock + removable battery

~2 h per charge (up to 2.5 h) / ~4,000 m² per pack; it returns to the dock, recharges and resumes automatically — the pack is removable but not hot-swappable.

What this means for you

For municipal, airport & facility managers

- Meets low-noise / zero-emission tender and urban-zone requirements.
- Predictable, scheduled, documented coverage across many zones.
- No crew working in public areas at unsociable hours.

For landscapers, contractors & dealers

- A differentiated, greener service to win public and estate contracts.
- Lower recurring fuel and labor cost per hectare.
- Spare-parts supply, operator training and demo units from the manufacturer.

Propose a field evaluation on one of your sites

Rather than a standard dealership pitch, we suggest putting an R1 on a representative park, campus or estate zone to measure cut quality, noise, runtime and coverage against your real requirements. We'll provide technical specs, pricing and a demo-unit plan. Reference FOB unit price from **USD 7,190** (maximum configuration); fleet / dealer pricing on request.

WANJI — Tianjin Wanji Imp. & Exp. Trading Co., Ltd. · Autonomous Mower Division

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Specifications are based on the WANJI 2026 autonomous mower range. The R1 is the all-electric 790 mm professional platform; the tracked T1 (slopes/brush) is also available. Final configuration and commercial terms confirmed per evaluation. WANJI is the export sales arm of the manufacturing group.