

Autonomous Mowing Where Wheeled Mowers Can't Go

The tracked, slope-rated WANJI T1 mulches tall grass and brush on solar arrays, dams, embankments and orchard rows — up to 40° — autonomously, with fewer crew on dangerous ground.

WANJI MACHINERY · EXPORT SALES ARM OF THE MANUFACTURING GROUP

The hard part of vegetation management isn't the flat lawn — it's the steep, overgrown, hard-to-reach ground: PV arrays and wind-farm access, dam faces and road embankments, vineyard and orchard rows, reclamation and rough brush. Wheeled mowers tip or spin there, and sending crews with trimmers is slow, costly and dangerous on slopes and around live infrastructure. The WANJI T1 is a **tracked, hybrid, fully autonomous mower** built specifically for that ground.

The problems on site



Steep ground wheeled mowers can't hold

Dam faces, road/rail embankments, berms and pads run 30–40°; wheeled ride-ons tip or spin and crews won't safely work them.



Solar & wind farms: vast and inaccessible

Vegetation under PV arrays and around turbine pads must stay low, but rows are low, uneven and remote — manual crews are slow and costly per hectare.



Tall grass & brush, not lawn

Reclamation, rough growth and orchard/vineyard alleys need a heavy flail that mulches tall grass and brush — fine turf mowers clog and bog down.



Hazardous for manual crews

Slopes, ditches, live electrical infrastructure, heat and wildlife make hand-held trimmer work risky; staffing and insurance keep getting harder.



Remote sites, no power, long runs

Far-from-base sites need all-day endurance without mains power, not a machine that must return to a charger every hour.



Coverage must be documented

Asset owners require documented, repeatable clearance on schedule — not a crew that “did most of it.”

The WANJI T1 — built for slopes, brush and hard-to-access ground

Up to 40° slope on rubber tracks

Climbs embankments, dams, ditches and array rows where wheeled mowers tip, spin or can't be operated; low ground pressure.

900 mm flail + straight-blade deck

Mulches tall grass, weeds and brush into fine clippings; 3,000–4,000 m²/h for large-area, remote-site throughput.

Hybrid drive, all-day endurance

Briggs & Stratton 810cc hybrid with LiFePO4 drive motors runs all day on sites with no mains power.

RTK-GNSS, no boundary wire

Maps array rows, embankments and orchard alleys; runs scheduled, repeatable routes without laying cable under panels.

LiDAR + 360° vision avoidance

Detects panels, posts, trenches, equipment and people, then stops and reroutes — safe around live infrastructure.

Remote control + autonomous

Drive it by remote for setup on tricky ground or let it run autonomous scheduled routes; large-screen remote plus mobile APP with alarms.

What this means for you

For solar / wind O&M & infrastructure managers

- Keep vegetation under panels and around turbines low on schedule, protecting output and fire safety.
- Take crews off slopes, trenches and live electrical infrastructure.
- Documented, repeatable clearance for asset and compliance reporting.

For vegetation & ag contractors, dealers & rental

- Take on slope, brush and orchard work that wheeled mowers and manual crews can't economically do.
- Win utility and infrastructure vegetation contracts with differentiated autonomous capability.
- 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 a T1 on a representative slope, PV array or orchard row to measure climbing ability, cut quality on tall grass, endurance and coverage against your real requirements. We'll provide technical specs, pricing and a demo-unit plan. Reference FOB unit price from **USD 6,830** (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 T1 is the tracked hybrid platform (900 mm flail deck, up to 40° slope) for rough, sloped and remote terrain; the all-electric wheeled R1 (790 mm, zero emission) handles clean manicured turf. Final configuration and commercial terms confirmed per evaluation. WANJI is the export sales arm of the manufacturing group.