WANJI

Smart hybrid lawn mower

WANJI WJ-T-900A

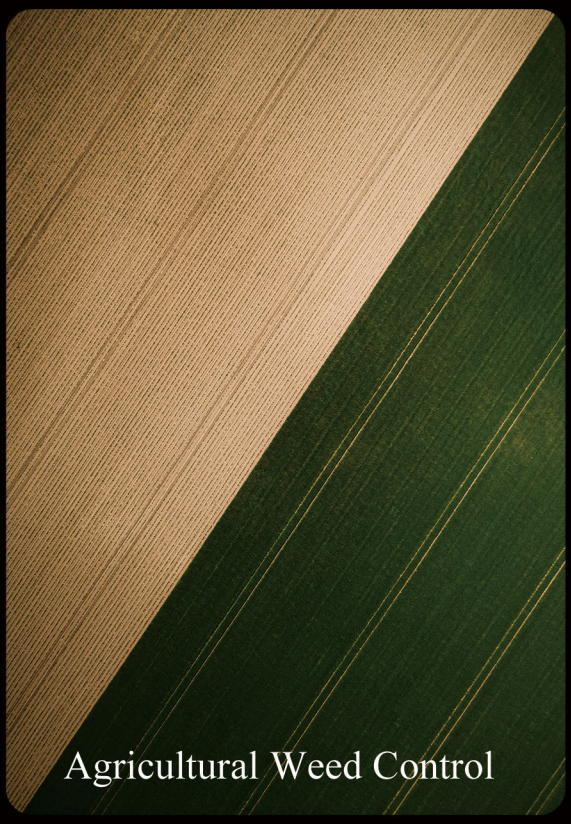
All-terrain mowing, high efficiency



Diverse operational scenarios

Suitable for diverse terrains, it navigates complex and varied landscapes with agility. Whether traversing embankments and steep slopes, vast orchards, or undeveloped wastelands, it handles them effortlessly, significantly reducing labor costs and boosting operational efficiency.


Fruit Orchard


Agricultural Weed Control


Lawn mowing


Clear land and weed


Weed Removal on Dikes

All-new mowing experience

WANJI WJ-T-900A Smart Hybrid-Powered Lawnmower Achieves comprehensive autonomous path planning, supports remote monitoring and task scheduling via smartphone, pioneering a new chapter in smart agriculture.

NAV-L3 Omnidirectional Autonomous Navigation System

GNSS-RTK Positioning and Navigation System
Omnidirectional Path Planning
Centimeter-Level Accuracy



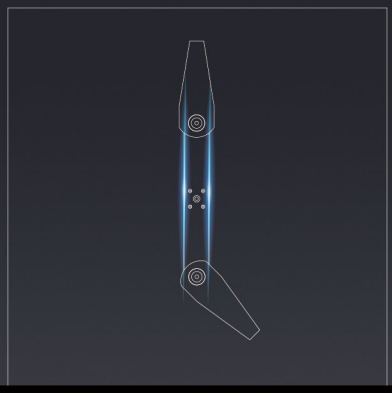
Climbing angle: 40°

Stable operation on muddy and sloping terrain



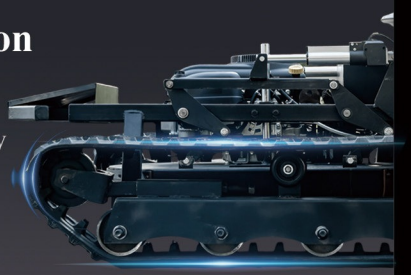
35.4 in cutting width Precision cutting

Flat Blade Design (2 Swinging, 1 Fixed)
Compatible with Elevating Platform
Lifting Range: 0.8–5.9 in



All-terrain operation

Crawler-type chassis design
Exceptional off-road capability



High efficiency

The 810cc engine delivers 27 HP
Hourly Coverage Area: Approx. 0.74–1 acre



All-Directional Autonomous Navigation System

NAV-L3 is a high-precision positioning, navigation, and control system based on BeiDou-RTK technology, designed for autonomous navigation tasks of low-speed mobile robots. It outputs critical information such as positioning data, autonomous operation speed values, and angular values. When paired with the “Smart Operation” app, it enables autonomous control of low-speed mobile robots equipped with NAV-L3.



GNSS + LiDAR

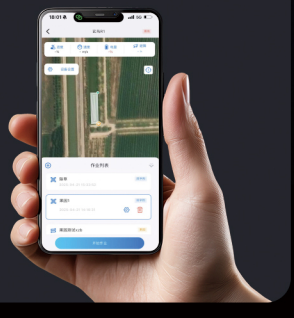
Multi-sensor fusion navigation system
RTK positioning mode
Achieves centimeter-level positioning accuracy

0.79in Positioning accuracy

0.2° Directional accuracy

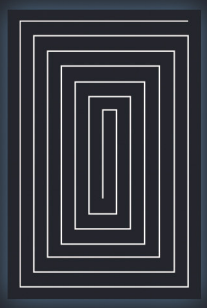
Remote control

Supports connection via mobile app
Quick configuration of device parameters
Status monitoring and data transmission



U-shaped path

The most conventional working path, suitable for most scenarios, involves spiral inward cutting along the lawn edge to ensure neat boundaries. RTK centimeter-level positioning prevents redundant coverage, reducing energy consumption by 30%.





Bow-shaped path + obstacle zone

Parallel zigzag operation boosts coverage efficiency by 45%, ideal for regular open lawns. Path deviation is eliminated via turning compensation algorithms, with a missed-cut rate <0.5%.





Orchard Work Area

An all-terrain operation solution specifically designed for multi-row orchard structures, achieving efficient and precise mowing in complex planting environments through RTK centimeter-level positioning and multi-sensor fusion.



Single Ridge

Across the Loess Plateau





Custom Workspace

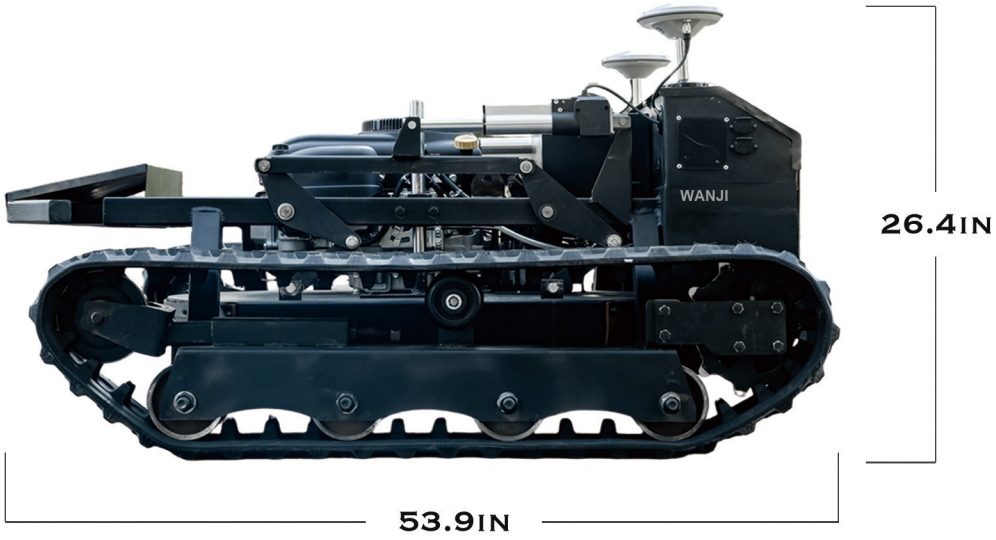
Customizable mowing zones can be set for irregular areas, supporting bow-shaped autonomous paths. Obstacle zones can be configured within the working area for avoidance, making it ideal for narrow or irregular spaces.







Detailed Specifications





Norm	Parameters
Power Type	Hybrid (Gas-electric)
Overall Dimensions	59.1 × 53.9 × 26.4 inches
Net Weight	717 lbs - 750 lbs
IP Rating	IP54
Travel Speed	0–3.7 mph
Max Slope Angle	≤40°
Mowing Efficiency	0.74–1 acre/h
Cutting Width	35.4 inches
Cutting Height Range	0.8–5.9 inches

Norm	Parameters
Number of blades	2 swing blades + 1 straight blade
Engine Brand	Briggs & Stratton (USA)
Displacement / Power	810cc 27 HP
Engine Type	Twin-cylinder
Starting System	Electric start
Fuel consumption	0.44 - 0.88 imp gal/h
Fuel tank capacity	2.2 - 3.3 imp gal
Fuel type	Regular unleaded (87 octane or higher)
Control method	2.4G remote control