

Professional & Large-Area Mowing: WANJI T1-900A / R1 FIELD COMPARISON

Tracked hybrid and wheeled full-electric autonomous mowers vs. premium import robots and traditional ride-on machines

Dimension	WANJI T1-900A	WANJI R1	Kress	Husqvarna 450X	Traditional Ride-On
Chassis & Slope	Industrial-grade tracked chassis; works on slopes up to 40°	4WD differential direct-drive chassis; undulating estate ground up to 20°	Mostly 2WD / partial 4WD; 20°–25° only; prone to slipping on wet slopes after rain	2WD / AWD only on top trim; 24°–35°; top configurations are extremely expensive	4-wheel steer, but heavy body and high center of gravity; above 15° high risk of rollover injury
Operating Mode	Fully autonomous, self-planned routes; zero operator / labor cost	Fully autonomous, self-planned routes; zero operator / labor cost	Autonomous navigation, but relies on base-station equipment and high-premium correction service	Autonomous with high-precision base station; machine and unit pricing carry a heavy premium	Requires a dedicated driver; high labor and management cost; hard to recruit in hot conditions; high annual maintenance
Work Rate	3,000–4,000 m²/h	~2,000 m²/h	~50–210 m²/h	~100–300 m²/h	~3,000–5,500 m²/h but with a full-time driver
Cutting Width	90 cm extra-wide deck; 2 kW brushless dual motor	79 cm commercial deck; high-efficiency brushless direct drive	~20–35 cm small discs; heavy overlap / repeated paths	~24–32 cm small discs; comparatively low work efficiency	90–120 cm wide, but the heavy machine easily kills turf and compacts soil

WHY WANJI 01

Hardware & software developed as one

Navigation controller, drive system and mowing logic are engineered in-house together — not assembled from off-the-shelf modules, so the machine behaves as one coordinated system.

WHY WANJI 02

Premium components, not cheapest-fit

Brushless motors, LiDAR, batteries and core structural parts are selected for durability and field uptime. We do not build down to a low price point.

WHY WANJI 03

Autonomy that removes labor cost

Up to 3,000–4,000 m²/h with no driver, no boundary wire and no paid correction service — ride-on throughput at robotic operating cost.

See the T1-900A / R1 in action — book a live remote video demo

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Residential & Estate Mowing: WANJI R3

FIELD COMPARISON

45 cm commercial-grade autonomous mower vs. mainstream premium robotic mowers for large gardens and estates

Dimension	WANJI R3	Mammotion LUBA 3 AWD	Segway Navimow X3 / X4	MOVA LiDAX Ultra 2000 AWD
Chassis & Traction	All-wheel drive	All-wheel drive	Rear-wheel drive after obstacle crossing	All-wheel drive
Navigation & Obstacle Avoidance	High-precision GNSS-RTK + 3D LiDAR obstacle avoidance; boundary-free auto planning; reliable detection in both bright and dark light	Tri-Fusion integrated navigation; 3D LiDAR + dual 1080P cameras	EFLS 2.0 integrated positioning; VisionFence AI visual sensing	3D LiDAR (LiDAR SLAM) + AI vision; UltraView 3D LiDAR + low-light camera
Endurance / Area per Charge	~2.5 h / 3,750 m ² Large battery + high-efficiency direct drive for big gardens	~3.5 h / 1,500 m ²	~2–3 h / 1,300 m ²	~2.5 h / 1,000 m ²
Cutting Width	45 cm	40 cm	23.7 cm	40 cm

WHY WANJI 01

Commercial deck, estate-grade build

A 45 cm cutting deck and professional-grade components in a residential-class body — built to mow every day, not just weekends.

WHY WANJI 02

Boundary-free RTK + 3D LiDAR

No perimeter wire and no base-station subscription. Centimeter-level route planning with stable obstacle detection day and night.

WHY WANJI 03

Up to 3,750 m² on one charge

Roughly 2.5× the per-charge area of mainstream premium robotic mowers — big estates finished in fewer cycles, with less recharge downtime.

Compare the R3 against your current shortlist — request a live remote video demo

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