



ARR100

Pre-marking Robot



The ARR100 pre-marking robot is an auxiliary operation robot capable of automatically performing road surveying, marking, and line pre-marking. It improves the efficiency of auxiliary road line marking and spraying, while reducing labor intensity and operational costs.

- Seamless integration of high-precision positioning with robotic operations.
- Easy-to-use Android tablet and app for quick operation and control.
- Versatile design compatible with spray devices of various sizes.
- Supports importing various design drawing file formats.
- Maximum operating speed of 7.2 km/h.
- High efficiency, achieving tens of times the productivity of manual operations.
- Customizable battery capacity with endurance up to 40 km.
- Reliable and repeatable centimeter-level marking accuracy.
- Capable of operating on rough surfaces such as grass and gravel roads.

ARR100

— Applications



Highways: Automatically generates the optimal marking path based on design specifications for precise and efficient road marking.



Municipal Roads: Supports construction according to design drawings and preset standard templates.



Parking Lots: Enables fast and accurate automatic marking in parking lots.



Special Markings: Supports special markings such as no-parking grids and reversible lanes.



Sports Fields: Provides fast line marking for football fields, basketball courts, tennis courts, and other sports venues.



Survey Guidance: Guides construction through precise surveying and allows verification against design drawings after completion.

— Specifications

Robot

Dimensions (L×W×H)	1152 mm × 542 mm × 658 mm	Climbing Ability	20°
Wheelbase	400 mm	Battery	24V 20Ah Lithium Battery
Drive Wheel Track	465 mm	Motor Power	200W × 2
Total Weight (with paint tank 85% filled)	28 kg	Charging Time	4 hours
Maximum Speed	2 m/s	Endurance	15 km
Minimum Turning Radius	Zero-radius turning	Water & Dust Protection	IP3X

Line Marking

Marking Speed	0.5 m/s ~ 1 m/s	Materials	Latex Paint / Titanium Dioxide Paint
Accuracy	≤2 cm	Marking Types	Dots, lines, curves, numbers, letters, simple templates

Control Terminal

Control Terminal	Android tablet
Control Software	Supports project management, user management, importing design drawings, standard line types, and custom-designed line types