



TR10Pro

Sports Field Marking Robot

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TR10Pro Sports Field Marking Robot is an intelligent solution purpose-built for the construction and maintenance of sports facilities. Integrating high-precision navigation and positioning, AI-powered path planning, and advanced intelligent control technologies, it enables end-to-end digital management from surveying to line marking.

Designed to deliver standardized, efficient, and modern sports engineering workflows, the TR10 Pro helps contractors reduce construction costs by up to 30% and shorten project timelines by 50%. It provides a smart and reliable solution for creating world-class sports venues that meet the highest professional standards.

CHARACTERISTIC

Linux Intelligent System

The TR10Pro supports full constellation and full band frequency signal tracking with 1408 channels. Its antenna can simultaneously receive signals from BDS, GPS, GLONASS, GALILEO, SBAS, and QZSS satellites, enabling full constellation positioning. The robot also supports Real-Time Kinematic(RTK) differential positioning and can access the Beidou ground-based augmentation system for high-precision positioning. By combining high-precision positioning with robotic operations, it achieves reliable and repeatable centimeter-level line marking accuracy.

Long Battery Life and High Speed

The TR10Pro is equipped with a built-in 48V/15Ah lithium battery, offering a top speed of 1m/s, and a battery life up to four 11v11 standard football fields.

Multi-functional

The TR10Pro has built-in models of various sports fields, such as soccer and American football, lacrosse. It also supports custom editing of sports field templates and is easy to use.

High Adaptability

The TR10Pro is compact and equipped with two 400W hub motors, enabling it to perform operations smoothly on rough surfaces like grass, with the ability to make sharp turns and climb slopes up to 20 degrees.

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Sports Field Marking Robot

Reliable and repeatable

Centimeter-level marking accuracy

5cm~15cm

Adjustable side nozzle

3 times faster than manual work

Operating day and night

Lithium **48V/15Ah**

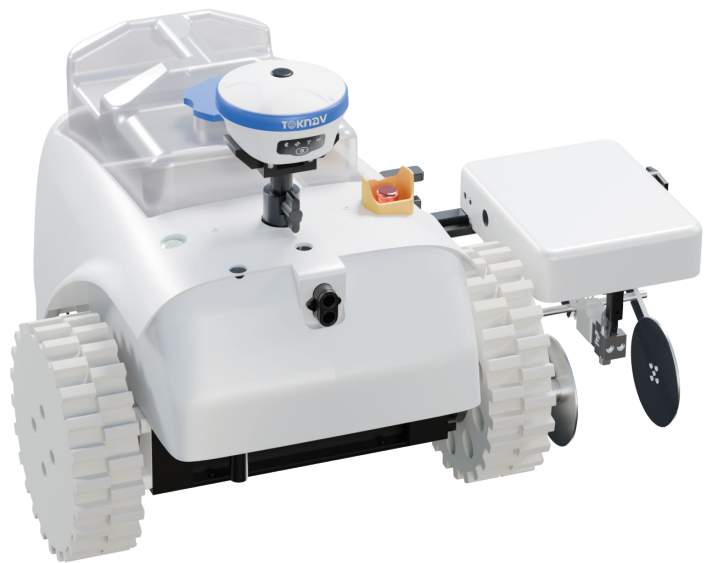
Over 4 Hours

Speed **1m/s**

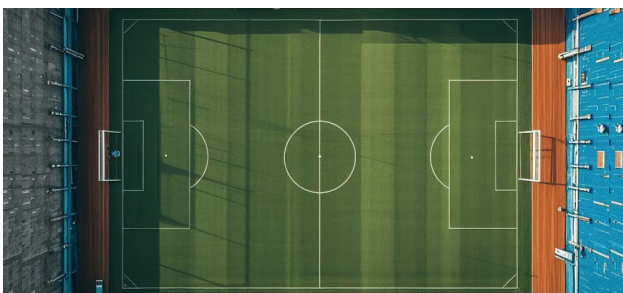
Faster and more efficient

0° Turn in place

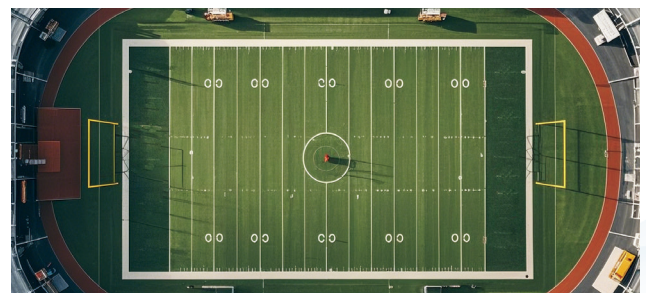
Flexible and adaptable



APPLICATION



soccer field



football field

SPECIFICATION

PHYSICAL

Dimensions L*W*H	525mm*746mm*527mm (Removable side scribing mechanism with a width of 243mm)
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Wheelbase	400mm
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Weight	41.3kg
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BATTERY

Battery Type	Lithium 48V/15Ah
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Battery Life	4 hours
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Endurance	four 11v11 standard football field
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ENVIRONMENT

Communication	CAN
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Temperature	Operating: -10°C~60°C Storage: -10°C~45°C
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IP Rating	IP4X
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MOBILITY

Motor Specification	400W*2
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Maximum Speed	1m/s
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Maximum Climbing Ability	20°
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Minimum Turning Radius	0°(Turn in place)
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FIELD MARKING

Speed	1m/s
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Hopper Capacity	15L
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Sports Field Type	soccer field, football field, lacrosse court, baseball field
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Drawing Width	5cm~15cm adjustable side nozzle
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CONTROLLER

Controller	Android tablet
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Controller Software	Built-in models for various types of sports fields; It supports custom editing of sports fields; User-friendly and easy to operate.
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Manufacturers may update parameters at any time, please refer to the latest product information.



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