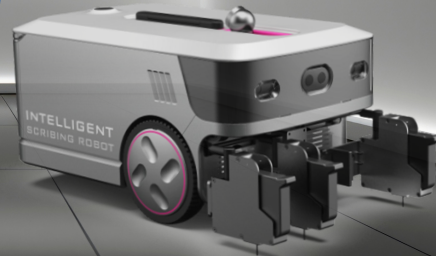


infiniti 4.0

Infiniti Partner

Intelligent Scribing Robot



Industry Status

In the construction industry, the ground layout of the main structure is affected by factors such as the construction environment and construction equipment, and there are generally five major problems

Poor Consistency
Affected by manual technology, the construction lines vary in thickness

Low Efficiency
Low degree of mechanization Low labor efficiency

Many safety risks
Long-term squatting/occupational diseases Climbing/night work

High Strength
Heavy workload/long hours Repetitive physical labor

Difficulty recruiting workers
The number of workers has fallen and labor costs have risen

Intelligent scribing robots provide intelligent construction solutions for projects in terms of improving construction quality and efficiency, improving construction safety, reducing labor intensity, and solving labor problems.

Product Description

The intelligent scribing robot is a robot suitable for ground marking in construction. It can automatically and efficiently print all line segments (such as wall column edges, control lines, door and window lines, etc.), symbols and fonts on CAD drawings or BIM on the ground very accurately, realizing the digital twin of building structure lines. It is suitable for ground marking of different construction systems such as aluminum film, wooden formwork, new formwork, and prefabricated.



High quality

Achieve precise line laying Line marking accuracy within $\pm 3\text{mm}$, construction accuracy is guaranteed



High Efficiency

Fully automatic marking operation High marking efficiency, about 3.5 times that of traditional marking teams (4-6 people)



High coverage

Within the reach of the robot The line laying coverage rate is 100%, meeting the marking requirements of different construction systems



Flexible & easy to use

The robot is small and flexible, and the operator can complete the marking operation by holding a tablet, reducing labor intensity.



Safety

Reduce the risk of workers crouching to reduce the risk of strain injuries, thereby reducing the hidden dangers of high-risk operations

Main index parameter

Weight	21kg	Line length	15000m
Machine size	506X316X26 3mm	Marking accuracy	Edge line/ controlline / angleiron line: ±3mm Axisline:±2mmCross line:±5mm
Battery life	≥5h	Comprehensive ergonomics of the main structural layer of a residential building	≥200m ² /h
Charging time	2h	Comprehensive Ergonomics of Commercial Buildings	≥300m ² /h
Operating voltage	DC48V	Marking speed	≤1.0 m/s
IP protection rating	IP54	Crossing capability	≤20mm
Service life	5Years	Gradeability	≤10°

Application Examples

The intelligent scribing robot has completed construction in projects such as Phoenix Tower in Shunde, NDP 2025, Foshan and Kefan Headquarters Building, with the construction quality has meeting the acceptance standards.



Exhibition Hall Marking



Control line, Angle Iron line, Edge line



NDP 2025 Lines Marking



NS10 Laser Tracker



Precision Circle Marking



End result after using the robot at NDP 2025



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