

GOOGOL ROBOT

Manufacturer of millimeter-level marking robots for 100-meter scenarios

Company Profile

Founded in December 2020, Hunan Googol Robot Co., Ltd. specializes in millimeter-level marking robots for hundred-meter scenarios. Leveraging its outstanding product capabilities and independent core patented technologies, the company has successfully launched two star products: Layout Marking Robot and Football Field Marking Robot, and has expanded into scenarios such as heavy industry manufacturing, shipbuilding, as well as exhibition hall layout planning. Among them, Layout Marking Robot has won the honors of 'Hunan Provincial Industrial New Product' and 'Landmark Innovative Product,' demonstrating the company's technical strength and innovation achievements.

Widely recognized in the industry, the company has been awarded the title of "2023 Top 50 Leading Real Estate Technology Enterprises in China" by KPMG and has been selected as a key supported enterprise in the equipment manufacturing sector of Changsha's Smart Construction Industry Base. In collaboration with China Construction Fifth Engineering Division Corp., Ltd. (CSCEC), the company has established the 'CSCEC -GOOGOL Robotics Joint R&D Center' to deepen the integration of technological research and development with application practices.

In 2024, Layout Marking Robot has successfully entered the international market, ranking among the top globally in terms of competitiveness. Adhering to the mission of "creating precise, reliable, and highly adaptable millimeter-level marking robots for hundred-meter scenarios," Googol Robot is committed to making marking in hundred-meter scenarios more efficient and precise, striving to become the leading enterprise in this field globally.

GOOGOL ROBOT

Honor and Qualification



Cooperative Partner



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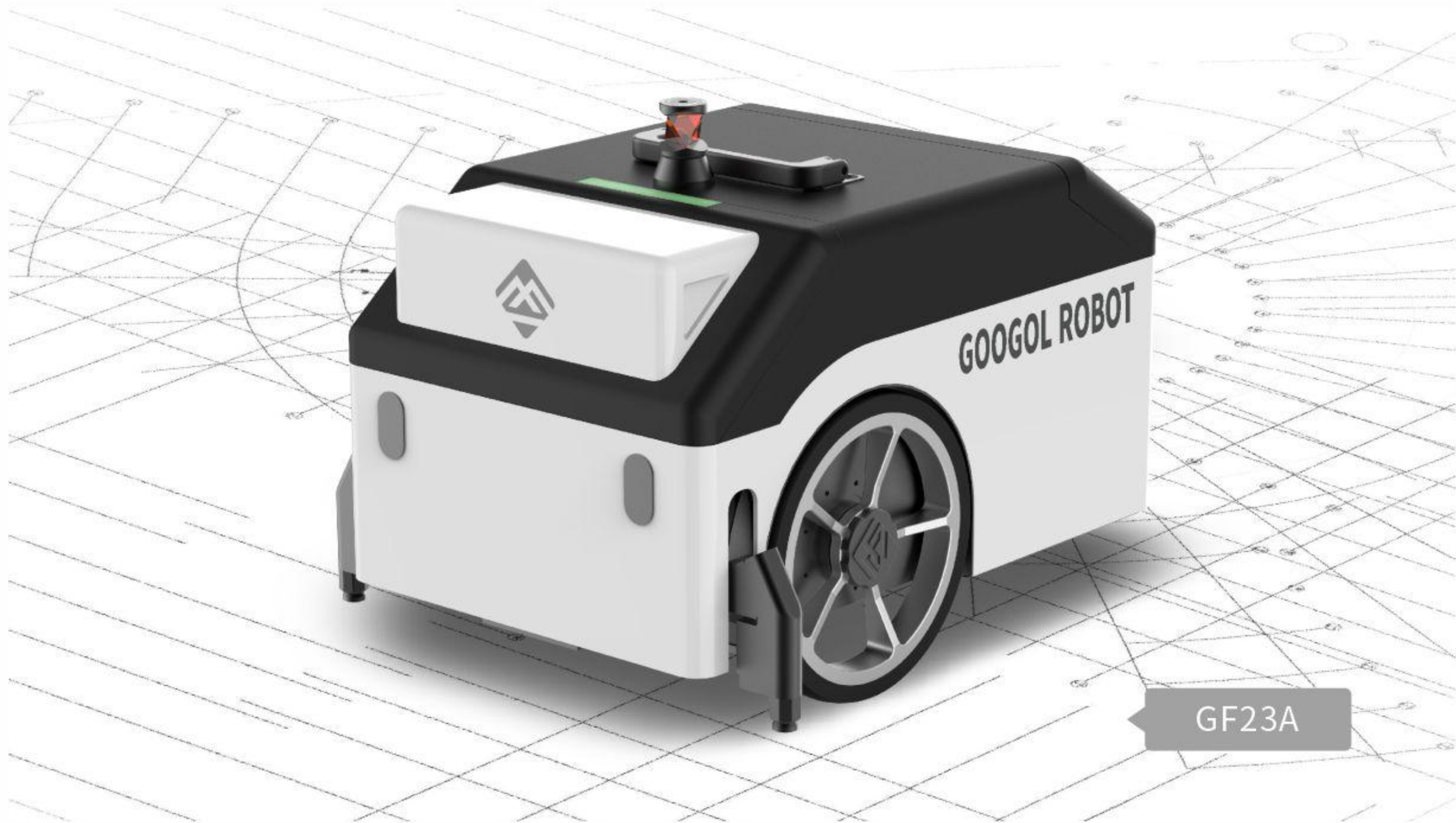
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GOOGOL ROBOT

LAYOUT MARKING ROBOT



Product Presentation

Layout Marking Robot is an intelligent construction equipment that can automate the task of marking out construction layouts. It is mainly applied to the marking tasks in the fields of electromechanical installation, decoration installation, main structure, and other scenarios in the construction industry. This robot utilizes millimeter-level high-speed motion coordinate tracking and positioning technology to achieve high-precision marking within a 60-meter operating radius of $\pm 2.5\text{mm}$. By importing and automatically analyzing construction CAD drawing files through a tablet PC, it can automatically plan the marking path. Its efficiency is particularly remarkable for complex and irregular marking tasks such as curves and oblique lines.

Efficient Operation

Simple operation
Automatic execution

Reliable Accuracy

High speed motion accuracy $\pm 2.5\text{mm}$

Stable Performance

Not afraid of high temperature
Endurance up to 4h

Active Obstacle Avoidance

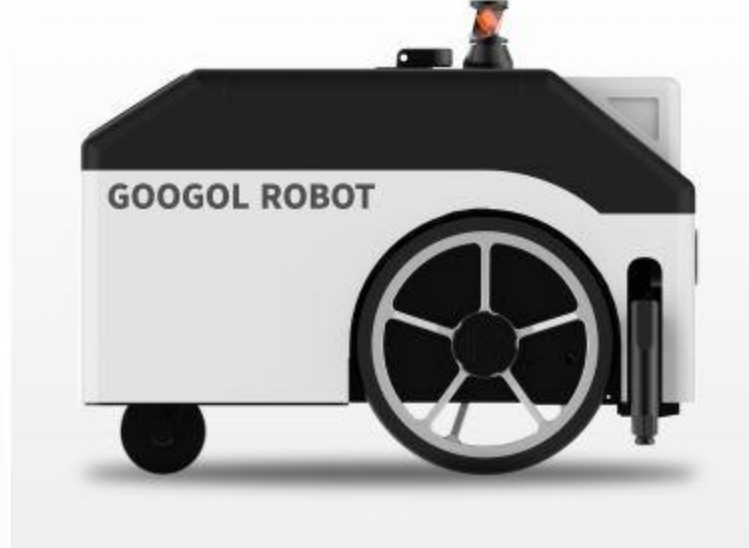
Lidar real-time detection

Product Parameter

Working accuracy: $\pm 2.5\text{mm}$ (Ground leveling working radius 60 meters)	Operating speed: $> 1\text{km/h}$
Inkjet mode: Maintenance-free needle inkjet	Working radius: $< 150\text{m}$
Character printing: Font height 50mm, Support Chinese、English and numbers	Operating temperature: $0\sim 65^{\circ}\text{C}$
Applicable ink: Water-based ink, black, red two colors	Job mode: Dynamic job
Endurance: 4h Replaceable battery (24V10AH)	Control hardware: Tablet PC
Size: 425mmx280mmx290mm(prism-free)	Total weight : 16.5KG



front

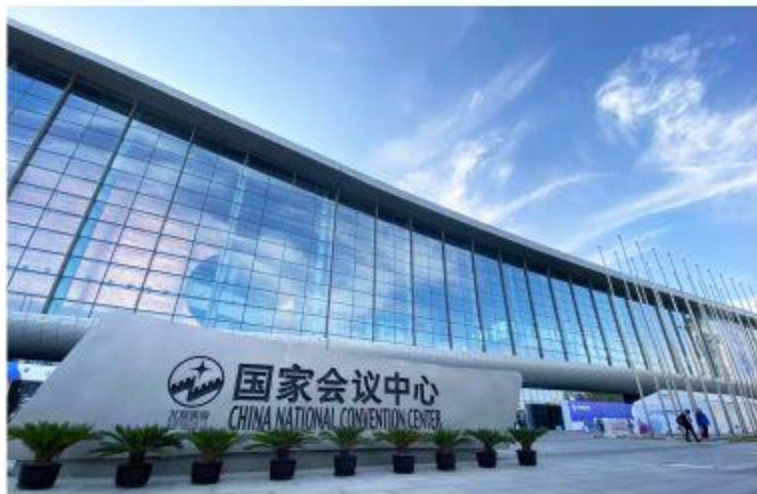


flank



behind

Application Case



Beijing National Convention Center Phase II project



Shanghai Grand Opera House Project



Shenzhen Bay Super Headquarters Base C tower project



Hong Kong Kai Tak New Acute Hospital Project



Changsha International Convention and Exhibition Center project



Nantong Haimen District Hospital of Traditional Chinese Medicine new hospital project