ZOEROBOT

ZOEROBOT

Prefabricated Building Robot Innovation Expert

www.zoerobot.com

About us

Prefabricated Partition Wall Construction Robot Pioneer in Solutions

ZOEROBOT originates from the Hong Kong center for Construction Robotics and is part of the Hong Kong Science Park Innohk Projects.

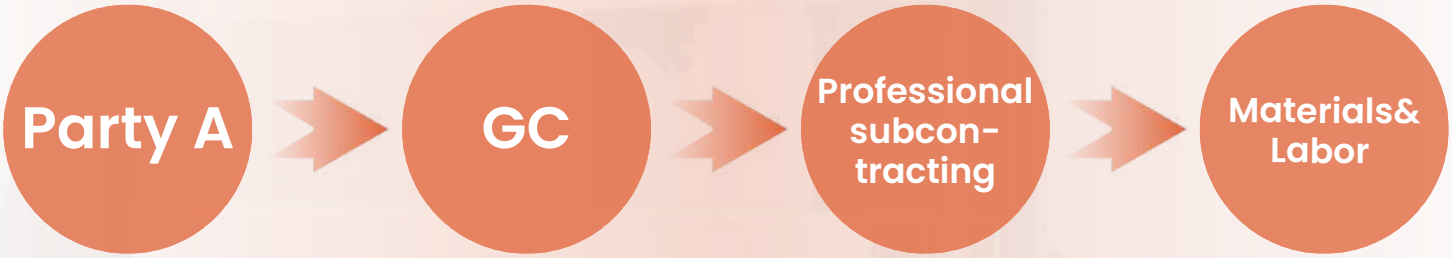
We established in 2022 and focuses on the intelligentization of precast buildings, committed to providing customers with safe, efficient, and stable end-to-end intelligent solutions using robotics, Al, and digital management technologies. Our self-developed products include intelligent design and planning systems, and handling and installation robots.

≥70%	20+	50+
Engineers	IP	Projects

Prefabricated Partition Wall Construction Robot Solution

Intelligent Design System - YIHONG

ALC Panel Layout Plan
Drawings / Quantity Calculation
Construction Planning



Safer
More efficient
More accurate

Wall panel installation robot - CAMPA Series

Component handling robot - ATTA Series

YIHONG

Intelligent Design System

The system automatically completes CAD drawing recognition, structural information parsing, detailed drawing creation, lightweight 3D model generation, production data import, and construction plan generation.

- ✓ **Speed** 5 mins for 1000 wall panels (design, split, draw, calculate)
- ✓ **Precision** >99% drawing recognition accuracy
- ✓ **Breadth** Plan + elevation + BOM + 3D model + construction planning

Function Introduction

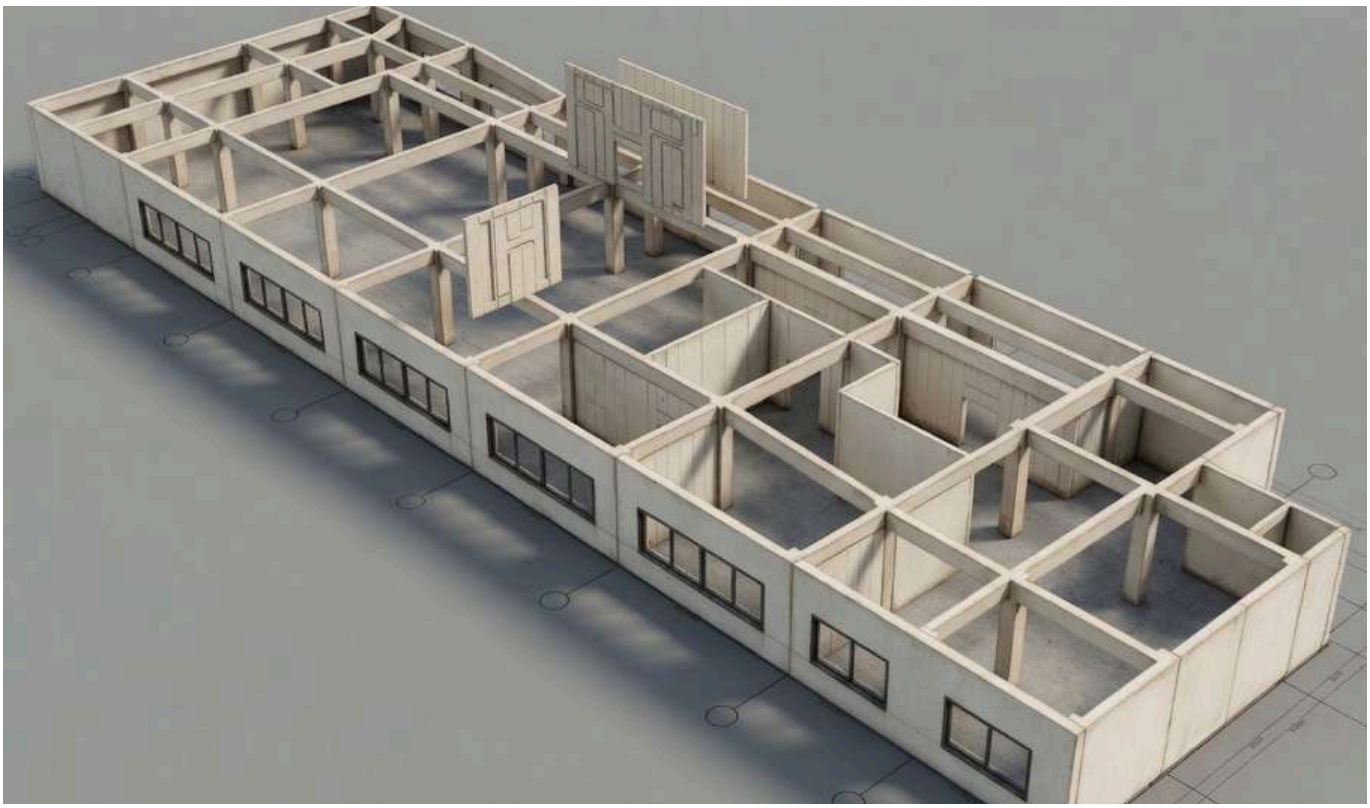
Height Settings: Floor height, Slab thickness, Anchor bolts, Global & local layout

Door & Window Setup: Door/window headers, Lap width, Flooring layer, Custom doors & windows

Construction Settings: Ultra-high/long partition columns, Opening connection columns, Custom structures

Pipeline Pre-installation: Hole layout, Pipeline pre-installation, Plate avoidance optimization

Arrangement of Strips & Plates: Horizontal/vertical arrangement, Panel assembly, Installation gaps, Automatic panel numbering

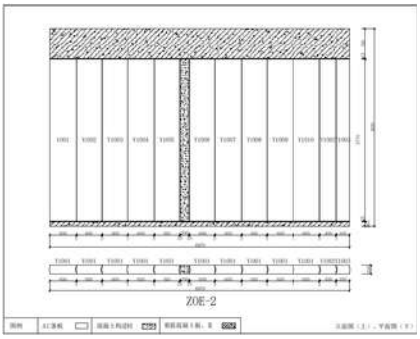


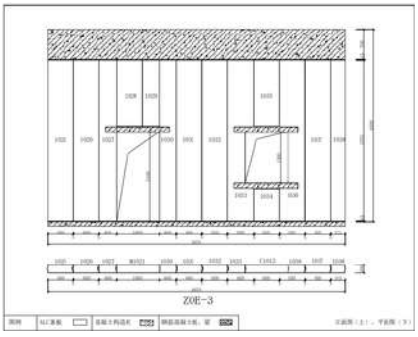
The output is more complete

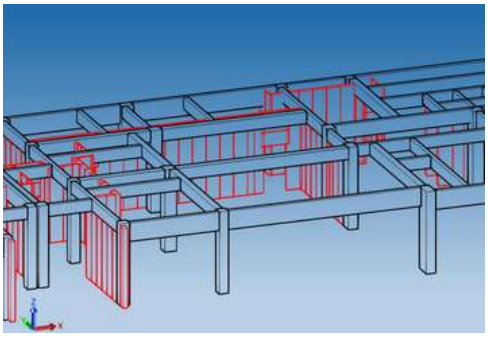
YIHONG can output plane + facade + list +3D model at one time

The overall efficiency has been increased by more than 10 times

Traditionally, the design cycle of a single project was measured by days/weeks, but now it can be shortened to hours or even minutes







The recognition accuracy exceeds 99%

The self-developed drawing recognition algorithm can accurately identify drawing information, and has a lower error rate than manual drawing

The plate loss is reduced by 3%

Sheet design loss reduced from 5% to 2%

CAMPA Series

Wall panel installation robot

CAMPA-300 CAMPA-600

The wall panel installation machine enables single-person operation to complete the tasks of transporting, erecting, and assembling wall panels weighing several hundred kilograms. It can complete the installation of prefabricated interior walls in a 3~6 meter scenario with the least number of personnel and the simplest procedures.

- **Safety protection** Wireless remote control zero contact operation
- **Quick start** Within 1 day to complete the whole process of training & assessment certificate to work
- **High automation** Reduce the manual load and reduce the threshold of operation
- **High operational efficiency** As few as 2 workers can complete a single panel installation in 4 minutes
- **High operational accuracy** Standard high precision servo system

School

Hospital

Office building

Factory

Residence

CAMPA-300

CAMPA-300	
Index	**Parameter**
Applicable wall panel sizes	0.5~3.2(m)
Dimensions	880*989*1360(mm)
Weight	800(kg)
Maximum load	300(kg)
Maximum speed	500(mm/s)
Unloaded hill climbing	8(°)
Obstacle crossing height	30(mm)
Battery life	8(h)
Audible and visual alarm	✓
Emergency stop button	✓
Communication methods	Wifi 2.4Ghz 802.11b/g/n Mixed
Control method	Android App(Version >= 7.0)

CAMPA-600

CAMPA-600	
Index	**Parameter**
Applicable wall panel sizes	3~6(m)
Dimensions	1600*1200*1800(mm)
Weight	1200(kg)
Maximum load	600(kg)
Maximum speed	500(mm/s)
Unloaded hill climbing	8(°)
Obstacle crossing height	40(mm)
Battery life	8(h)
Audible and visual alarm	✓
Emergency stop button	✓
Communication methods	Wifi 2.4Ghz 802.11b/g/n Mixed
Control method	Android App(Version >= 7.0)

The overall construction is orderly and smooth

Before entering the site, conduct material entry, storage and installation sequence planning based on the detailed design.

Overall efficiency has been doubled

Traditional: 5 workers vs
Robot: 3 workers
Traditional: 16 minutes/board vs
Robot: 6 minutes/board

The plate loss is reduced by 3%

The robot works according to the detailed design planning sequence, and cuts in sequence to improve the comprehensive utilization rate of the plate

0 plate damage, 0 accident

The robot design focuses on the protection of materials, and the wireless operation has a better operating field of view and is safer to operate

ATTA Series

Component handling robot

ATTA-1200 ATTA-2000

The handling robot mainly completes the horizontal transport of building components, and the vertical transport of materials through the engineering elevator, which provides a lower labor intensity, lower material loss and more flexible intelligent solution for material transfer.

- **Safety protection** Wireless remote control, zero contact operation
- **Get started quickly** Within 1 day to complete the whole process of training & assessment certificate to work
- **High efficiency** Picks up loads of up to 2 tons in under 30 seconds
- **High automation** Reduce manual load, automatic pick & place
- **Material support** Non-destructive handling
- **Precise planning** Standardized point-to-point transport routing

Floor tiles

Building materials package

Glass

ALC

ATTA-1200

ATTA-1200	
Index	**Parameter**
Component sizes	1~6(m)
Dimensions	1888*917*860(mm)
Weight	600(kg)
Maximum load	1.2(t)
Maximum speed	800(mm/s)
Unloaded hill climbing	10(°)
Obstacle crossing height	50(mm)
Battery life	8(h)
Audible and visual alarm	✓
Emergency stop button	✓
Communication methods	Wifi 2.4Ghz 802.11b/g/n Mixed
Control method	Android App(Version >= 7.0)

ATTA-2000

ATTA-2000	
Index	**Parameter**
Component sizes	1~6(m)
Dimensions	1888*1117*860（mm）
Weight	650(kg)
Maximum load	2(t)
Maximum speed	500mm/s
Unloaded hill climbing	10(°)
Obstacle crossing height	50(mm)
Battery life	8(h)
Audible and visual alarm	✓
Emergency stop button	✓
Communication methods	Wifi 2.4Ghz 802.11b/g/n Mixed
Control method	Android App(Version >= 7.0)

- Adopt four steering wheel structure, zero turning radius, flexible and stable
- Human-robot collaboration improves efficiency by 2–3x
- 50mm ability to cross obstacles, adapt to the complex environment of the site
- Integrates with detailed design data for planned routes, orderly transport according to the planning
- Support emergency stop protection, battery protection, sound and light alarm and other multiple protection

The overall construction is orderly and smooth

According to the plan for material transportation, neat stacking, saving public space, better look and feel

Higher efficiency

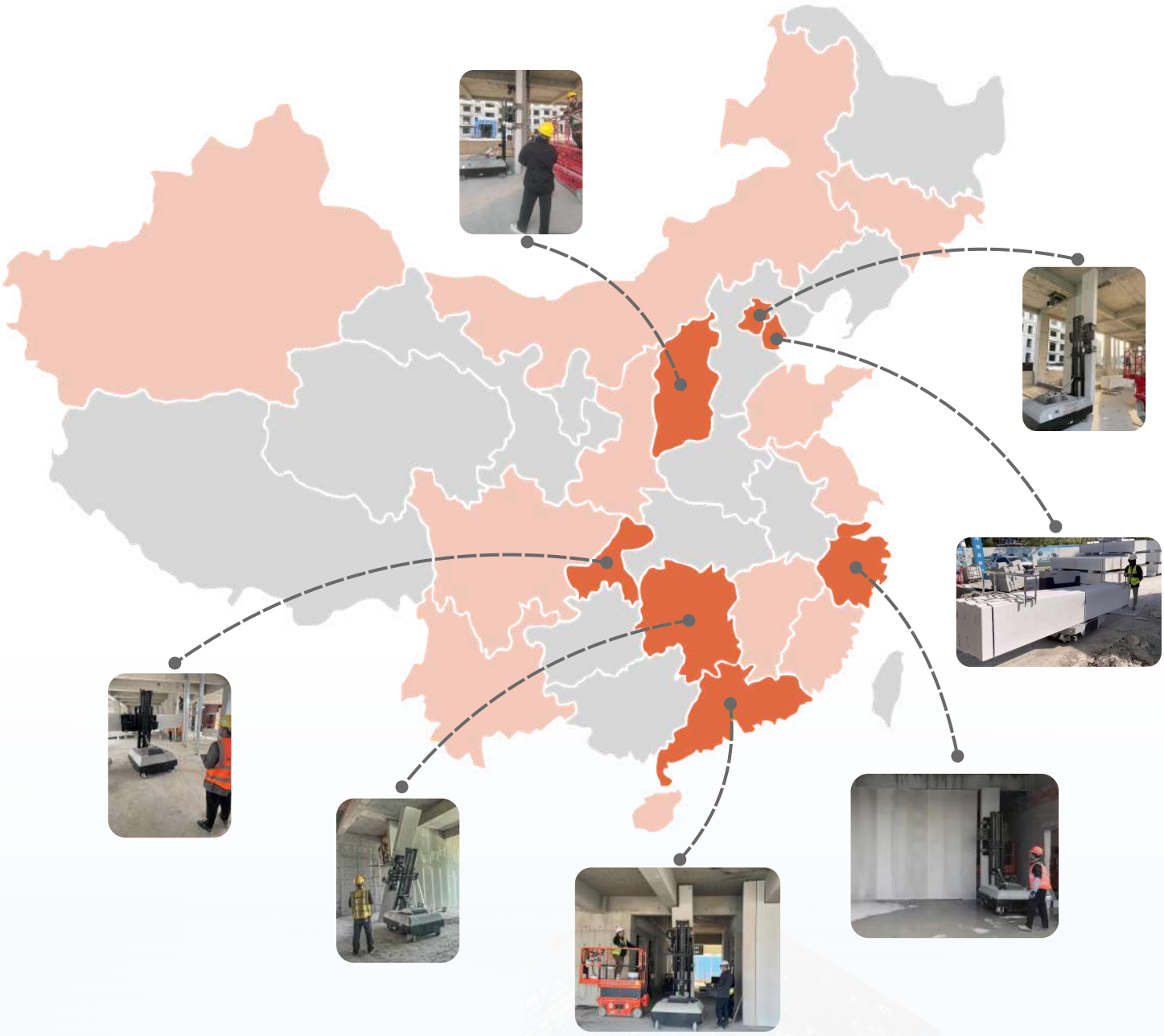
The robot can carry a single load of 2t, and quickly complete the secondary transfer of the plate from the ground to the floor

Lower labor intensity

The whole process of wireless remote control, zero contact operation, lower labor intensity

0 plate damage, 0 accident

The robot design focuses on the protection of materials, and the wireless operation has a better operating field of view and is safer to operate



ZOEROBOT's intelligent Design System - **YIHONG** has completed more than a thousand project designs in the country, so that the prefabricated partition wall project plan first, detailed drawings, and end-to-end data accuracy!

Our wall panel installation robot - **CAMPA** series and component handling robot - **ATTA** series have been applied in more than 100 projects across the country, training 160+ industrial workers. Make the assembly partition construction safer, more efficient and more accurate!

Singapore

The United Arab Emirates

In 2025, ZOEROBOT took the first step towards entering the international market, and it was the first to complete the implementation of over a dozen projects in Singapore and the United Arab Emirates. ALC is a globally adopted building material, and prefabricated partition panels are a global trend. 'ZOEROBOT's global expansion is underway.

Honorary Qualifications

◇ 2024 Xiongan International Service Robot Competition Construction Robot Track second prize

◇ Environmental Star of the first Construction Robot Competition Application Performance Competition in 2023

◇ Efficiency star of the first Construction Robot Competition in 2023

◇ Practical Star of the Application Performance Competition of the first Construction Robot Competition in 2023

◇ The second China Construction · Huixiang Future Construction Robot Competition Performance Competition Innovation star

◇ Silver medal in the application performance Competition of the first National Construction Robot Skills Competition (Zhongyifeng Cup)

◇ The second China Construction · Huixiang Future Construction Robot Competition Competition Quality Star

◇ Participated in the compilation of White Paper on the Development of Autoclave aerated Concrete Slab Industry

◇ 2024 Pioneer Award of Songhu Cup Innovation and Entrepreneurship Competition

◇ Housing Industry Expo Top 100 Intelligent Construction Award enterprises

Partnership Models

Robot Rental & Sale

On-site project check
Industrial worker training
24/7 after-sales service

In-depth Design Services

Drawings & sheets
(layout/elevation/node)
3D model & construction plan
Custom service & modification

Project Pilot

Construction plan
Robot + operator team
Flexible proofing ≤1000㎡

Intelligent Design System Subscription

Software training
24/7 online support
Professional technical support

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Strategic partner

ZOEROBOT

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