和筑PC模块装备
HEZHU PC MODULE EQUIPMENT

HEZHU IMPRESSION

和筑印象(天津)集成房屋有限公司
HEZHU IMPRESSION(TIANJIN)INTEGRATED HOUSE CO.,LTD

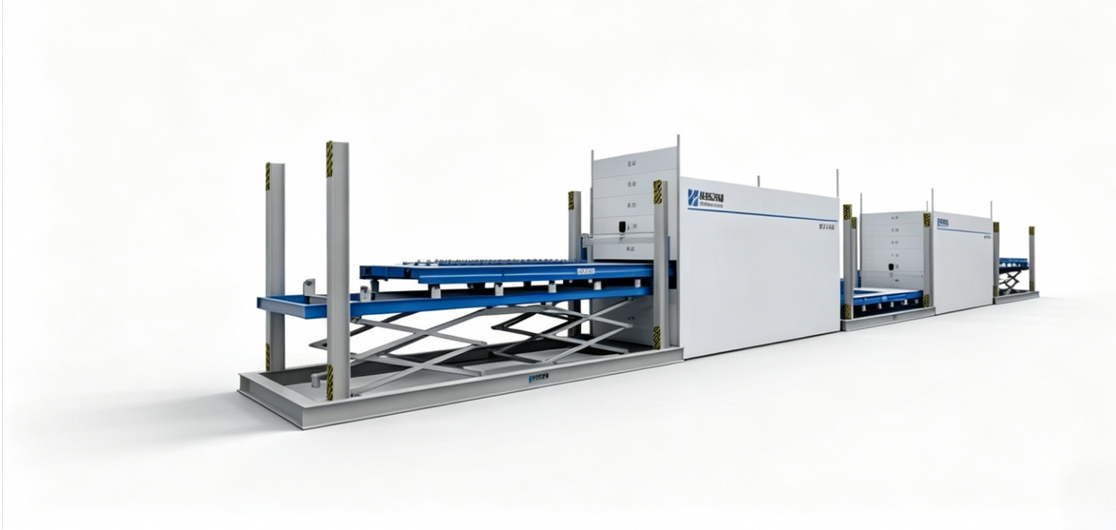
No. 82, Xi'erdao, Airport Free Trade Zone, Tianjin, China
Service 400 816 1017
E-mail hezhugroup@163.com

Information of the Person in Charge

Due to continuous technological updates, technical specifications are subject to change without prior notice. Machines shown in images may include optional equipment.
Designed and produced by the Marketing Department of Hezhu Impression, March 2026.

HEZHU IMPRESSION

和筑PC模块装备
HEZHU PC MODULE EQUIPMENT



和而不同 筑质恒远
Diverse in Harmony Enduring in Quality

www.hezhugroup.com.cn

ENTERPRISE OVERVIEW

Hezhu Impression (Tianjin) Integrated Housing Co., Ltd. is an innovative leader in the integrated development of the construction and energy sectors (abbreviated as "Hezhu Impression"), founded in 2017.

Hezhu Impression's main business centers on the theme of "equipment and construction," covering the R&D, manufacturing, and sales of PC complete equipment, mixing equipment, and related extended products, as well as the R&D, design, construction, and turnkey delivery of prefabricated buildings. Over the years, through deep cultivation of the field, exploration and R&D, and continuous improvement of its layout, Hezhu Impression has developed into a provider of integrated building-energy solutions featuring "four integrations": integrated architectural design, modular equipment and housing, integrated auxiliary material supply, and systematized photovoltaic power stations.

In terms of product supply, to meet market development needs, Hezhu Impression has established production bases in different regions based on local industrial advantages: the Beijing-Tianjin-Hebei core development zone (Tianjin), the Northeast old industrial base (Liaoning), the convenient transportation network region (Shandong), the digitally advanced region (Zhejiang), the core industrial manufacturing region (Hunan), and the Guangdong-Hong Kong-Macao Greater Bay Area, a key national strategic region (Guangdong). These bases cover two major markets—prefabricated building components and photovoltaic power generation systems—to meet the needs of different types of customers and different regional markets.

Hezhu Impression adheres to the philosophy of "technological innovation integrating green development" and shoulders the mission of "Harmony for All, Building the Future," contributing to the creation of a better future in which humanity and nature coexist in harmony.

Technical Advantages of Hezhu PC Modular Equipment

The PC Modular Equipment is an innovative product independently developed by Hezhu for building PC modular factories. Centered on PC modular equipment, it integrates multifunctional concrete mixing transport trucks and truck-mounted cranes, combining five core competitive advantages: "small, fewer, high, low, strong." The birth of Hezhu's PC modular factory fundamentally solves many problems faced during the upgrade of concrete batching plants into PC factories and the construction of conventional factories by other clients—such as "limited site space, large land occupation, high investment, low production capacity, and high energy consumption." It is an ideal choice for many clients investing in PC factories.

Flexible layout, adaptable to various sites
Centralized curing, reducing energy waste
On-demand production increase, with continuously expandable capacity
Lower investment, shorter payback period



THREE HIGHS

High production efficiency
Modular combination and flexible layout allow construction to be carried out either on the job site or in a fixed factory.
High reliability performance
The adoption of mechanized production methods, equipped with automated control systems, enhances equipment reliability while reducing the difficulty of operation and maintenance.
High return on investment
Constructed, put into operation, generating returns, and recouping investment all within the same year.

TWO LOWS

Low initial investment cost
Reduces factory floor area and improves overall machine integration. The equipment occupies only 200㎡, with a steel -structured foundation that requires no pit excavation, significantly lowering total investment costs.
Low operating expenses
Electrical systems and key components are sourced from well-known brands, reducing maintenance and replacement costs over the lifecycle of each part.

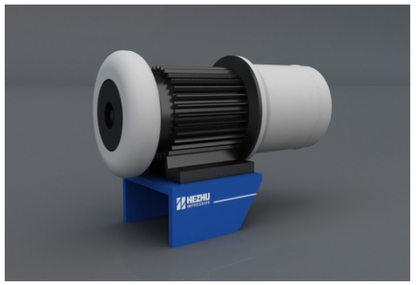
ONE FAST

Fast installation speed
Once the equipment arrives on site and installation conditions are met, installation can be completed by a team of 6 people in just 7 days.

ONE STRONG

Strong expandability
The overall equipment is equipped with upgradeable and expandable functions, enabling it to adapt to the upgrading and development of prefabricated construction technology.

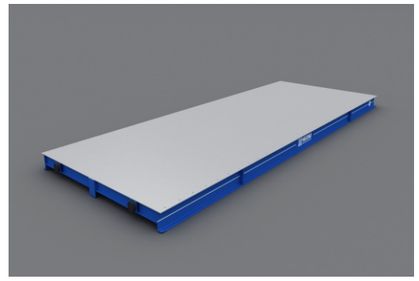
Hezhu PC Modular Equipment



Drive system

The traveling system consists of guide wheels and drive wheels, designed to coordinate with the mold table for conveying purposes. Equipped with a travel anti-collision device, it ensures smooth operation and precise positioning of the mold table, serving as the conveying line from empty mold table to finished product offloading.

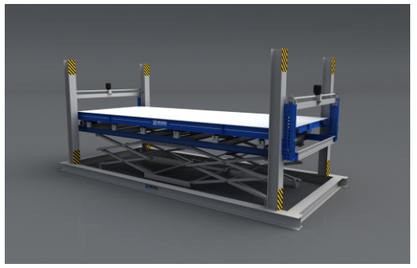
Main technical parameters	
Roller top surface height	400mm
Roller spacing	1570mm
Transport speed	0-30m/min



Mould table system

The mold table consists of a mold table frame and support panels. It is rugged and durable, offering high fatigue strength during vibration and tilting processes. Through finite element analysis and advanced processing techniques, deformation is effectively controlled, ensuring a longer service life.

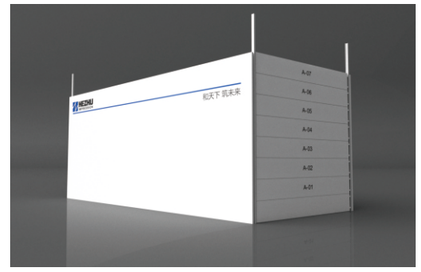
Main technical parameters	
Unit area load-bearing capacity	6.5 kN/m²
Mold table specifications	9,000 mm × 3,500 mm × 280 mm
Surface flatness	±1.5 / 3,000 mm
Panel material	Q345B high-quality carbon steel



Multi-function system

The stacking system consists of a frame mechanism, lifting mechanism, mold picking/delivery mechanism, locking mechanism, electrical system, and other components. Its multifunctionality lies in its ability to not only handle the picking and delivery of mold tables but also utilize the stacking system modules for preliminary component fabrication and later demolding operations.

Main technical parameters	
Lifting capacity (lifting weight)	20t
Lifting speed	0-8m/min
Horizontal positioning accuracy	⩽1mm
Door lifting speed	9m/min



Curing system

The curing kiln consists of the main frame, steam system, heat dissipation system, temperature and humidity control system, and other components. The kiln body is externally clad with thermal insulation materials. It adopts dry-heat and controlled-humidity curing methods, and is specifically designed for component curing purposes.

Main technical parameters	
Curing kiln layer height	650 mm
Curing temperature	30℃~65℃ (adjustable)
Curing humidity	0-99% (adjustable)
Working time	24-hour continuous operation (except maintenance time)
Support roller height deviation	⩽2 mm

HPC120 MAIN OVERALL MACHINE PARAMETER TABLE

Product name	PC Modular Equipment
Model	HPC120
Designed production capacity	8,000 m³/year
Overall dimensions (L x W x H)	50,160 mm x 4,500 mm x 5,800 mm
Mold table dimensions (L x W x H)	9,000 mm x 3,500 mm x 280 mm
Lifting method	Hydraulic + induction
Traveling method	Hydraulic + drive
Curing method	Steam / warm air
Types of components produced	Steam / warm air
Number of effective storage positions	12

HPC140 MAIN OVERALL MACHINE PARAMETER TABLE

Product name	PC Modular Equipment
Model	HPC140
Designed production capacity	9,000 m³/year
Overall dimensions (L x W x H)	50,160 mm x 4,500 mm x 5,800 mm
Mold table dimensions (L x W x H)	9,000 mm x 3,500 mm x 280 mm
Lifting method	Hydraulic + induction
Traveling method	Hydraulic + drive
Curing method	Steam / warm air
Types of components produced	Steam / warm air
Number of effective storage positions	14

Hezhu PC Modular Equipment

HPC160 MAIN OVERALL MACHINE PARAMETER TABLE

Product name	PC Modular Equipment
Model	HPC160
Designed production capacity	10,000 m³/year
Overall dimensions (L x W x H)	50,160 mm x 4,500 mm x 6,800 mm
Mold table dimensions (L x W x H)	9,000 mm x 3,500 mm x 280 mm
Lifting method	Hydraulic + induction
Traveling method	Hydraulic + drive
Curing method	Steam / warm air
Types of components produced	Steam / warm air
Number of effective storage positions	16

HPC180 MAIN OVERALL MACHINE PARAMETER TABLE

Product name	PC Modular Equipment
Model	HPC180
Designed production capacity	12,000 m³/year
Overall dimensions (L x W x H)	50,160 mm x 4,500 mm x 6,800 mm
Mold table dimensions (L x W x H)	9,000 mm x 3,500 mm x 280 mm
Lifting method	Hydraulic + induction
Traveling method	Hydraulic + drive
Curing method	Steam / warm air
Types of components produced	Steam / warm air
Number of effective storage positions	18

HPC200 MAIN OVERALL MACHINE PARAMETER TABLE

Product name	PC Modular Equipment
Model	HPC200
Designed production capacity	13,000 m³/year
Overall dimensions (L x W x H)	50,160 mm x 4,500 mm x 7,800 mm
Mold table dimensions (L x W x H)	9,000 mm x 3,500 mm x 280 mm
Lifting method	Hydraulic + induction
Traveling method	Hydraulic + drive
Curing method	Steam / warm air
Types of components produced	Steam / warm air
Number of effective storage positions	20

HPC240 MAIN OVERALL MACHINE PARAMETER TABLE

Product name	PC Modular Equipment
Model	HPC240
Designed production capacity	15,000 m³/year
Overall dimensions (L x W x H)	50,160 mm x 4,500 mm x 7,800 mm
Mold table dimensions (L x W x H)	9,000 mm x 3,500 mm x 280 mm
Lifting method	Hydraulic + induction
Traveling method	Hydraulic + drive
Curing method	Steam / warm air
Types of components produced	Steam / warm air
Number of effective storage positions	24

Hezhu PC Modular Equipment









