

# HUIBO ROBOTICS

Leading provider of digital-intelligence solutions for industries and talent.

## Intelligent Factory Business

智能工厂业务介绍

# Company Profile

## 公司介绍

Guangdong Huibo Robot Technology Co., Ltd. is a wholly owned subsidiary of Huibo Robot Group's industrial division and is one of China's leading suppliers of intelligent manufacturing technologies and equipment in several specialized industries. The company has established a national postdoctoral research workstation and operates one research institute, two manufacturing bases, and multiple subsidiaries and service centers across China, forming a nationwide network for marketing, technical support, and customer service.

广东汇博机器人技术有限公司是汇博机器人集团工业板块全资子公司，是中国若干细分行业领先的智能制造技术和装备供应商。建有国家级博士后科研工作站，在全国设有一个研究院、两个制造基地、多家子公司及服务中心，形成了覆盖全国的营销、技术与服务网络。

The company is consistently committed to delivering tailor-made smart factory solutions for its customers. It provides one-stop, end-to-end services covering solution design, system integration, manufacturing, software development, electrical control, installation and commissioning, training, and after-sales support. Through these services, the company helps customers achieve unmanned operations in production and logistics, flexible manufacturing, and optimized resource allocation.

公司始终致力于为客户量身打造智能工厂解决方案，提供方案设计、系统集成、生产制造、软件开发、电气控制、安装调试、培训及售后的一站式全流程服务，为客户实现生产和物流环节无人作业，柔性化生产以及优化配置资源。



### Comprehensive Professional Services Across the Full Lifecycle

全生命周期专业服务

The company provides professional equipment solutions and technical services throughout the full project lifecycle, from planning and implementation to operational support. By applying intelligent technologies, it helps customers reduce costs and improve efficiency, achieving average reductions of 30% in direct labor, 40% in work-in-process inventory, and 50% in logistics travel distance, while enhancing overall operational performance.

提供从规划、实施、到运营的专业设备及技术服务，以智能技术为客户降本增效，平均为客户减少30%的直接人力、40%的在制品数量、50%的物流距离，提升综合效能。

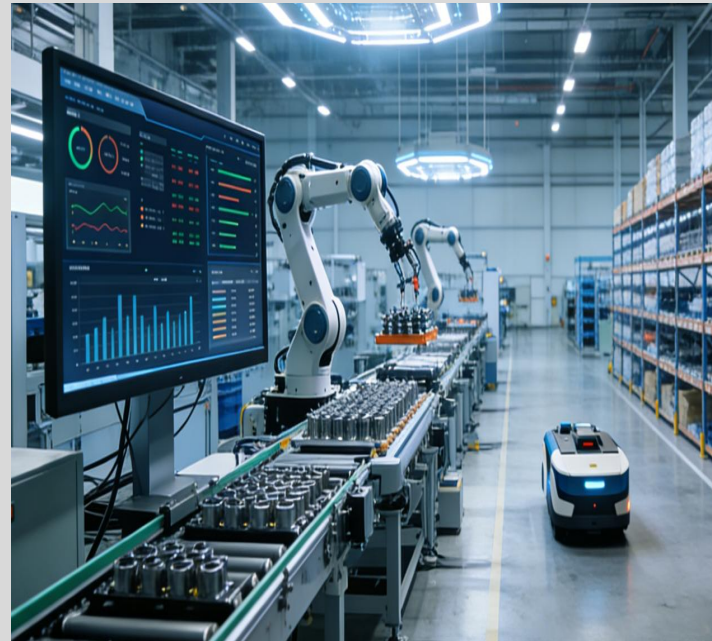


### Integrated Product and Technical Services Across the Entire Factory Workflow

工厂全流程产品技术服务

The company's product and technical services cover intelligent production lines, intelligent logistics, intelligent warehousing, and information systems. To date, it has served more than 800 factory customers across over 10 industries.

涵盖智能产线、智能物流、智能仓储、信息系统等产品技术服务，累积服务超800家工厂客户、超10个行业。



### Innovative Solution Planning Services Based on Process Integration

工艺融合创新的方案规划服务

By bringing together seasoned industry experts, the company is able to conduct in-depth analysis of complex manufacturing processes and, based on extensive experience and proven capabilities in end-to-end smart factory planning, deliver tailored intelligent transformation roadmaps for each enterprise.

汇聚行业资深专家，深入剖析复杂工艺，基于智能工厂整体规划的丰富经验及成熟技术，打造企业专属智能化升级路径。



汇博-智能工厂建设服务

## Smart Factory Planning Process - Creating an Exclusive Intelligent Upgrade Path for Enterprises

智能工厂 规划流程 - 打造企业专属智能化升级路径

### In-depth Research

深度调查

#### Basic data collection

基础数据收集

#### Existing problem collection

现有问题收集

#### Enterprise future development

企业未来发展

#### New factory plot information collection

新工厂地块信息收集

### Detailed Production Line Design

线体详细设计

#### Capacity planning

产能规划

#### PG PR analysis

PQ/PR分析

#### Line selection, Workstation design

线体选型、工作站设计、工装治具设计

#### Fixture design, Material distribution design

物料配送设计

#### Solution simulation verification

方案模拟验证

### Auxiliary Facility Planning

辅助设施规划

#### Production environment planning

生产环境规划

#### Factory network planning

工厂网络规划

#### Data acquisition hardware system planning

数据采集硬件系统规划

#### Workshop decoration suggestions

车间装修建议

### Information Design

信息化设计

#### Equipment central control system

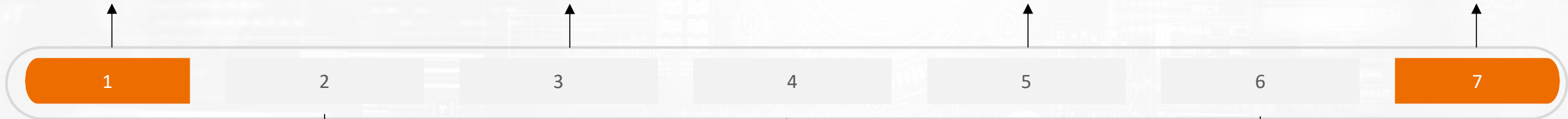
设备中控系统

#### WMS warehouse management system

WMS仓储管理系统

#### Robot control system

机器人控制系统



### Warehouse Layout Planning

仓储布局规划

#### Functional zoning planning

功能分区规划

#### Warehousing logistics analysis

仓储物流分析

#### Shelf and container design

货架/容器设计

#### Warehousing area and storage location calculation

仓储面积及库位测算

#### Transportation mode design

运输方式设计

### Logistics Planning and Design

物流规划设计

#### Logistics distribution mode analysis

物流配送模式分析

#### Delivery Frequency and Carrier Quantity Analysis

配送频次、载具数量计算

#### Carrier Selection

载具选型

#### Distribution tool selection

配送工具选型

### Simulation & Verification

仿真模拟验证

#### Warehousing logistics planning simulation,

仓储物流规划仿真

#### Production line and capacity simulation

产线与产能仿真

#### Robot trajectory simulation

机器人轨迹仿真

#### Equipment operation rate verification

设备稼动率验证

#### Factory simulation

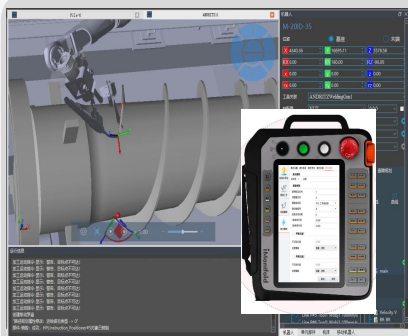
工厂仿真模拟

# Huibo - Main Products of Smart Factory

汇博-智能工厂主要产品

## Robots

机器人



■ Control Systems  
控制系统

Model-Driven  
模型驱动  
Teach-free automatic  
programming  
免示教自动编程

■ Machine Vision  
机器视觉

Recognition  
detection  
positioning

识别、检测、定位



■ Force Control Application  
力控应用

Constant force operation,  
force control polishing

恒力操作、力控打磨

## Intelligent Logistics and Warehousing

物流仓储

■ AGV Logistics  
AGV物流

Automatic logistics distribution  
自动物流配送



■ Automated Storage  
立体仓储

Retrieval System  
自动仓储

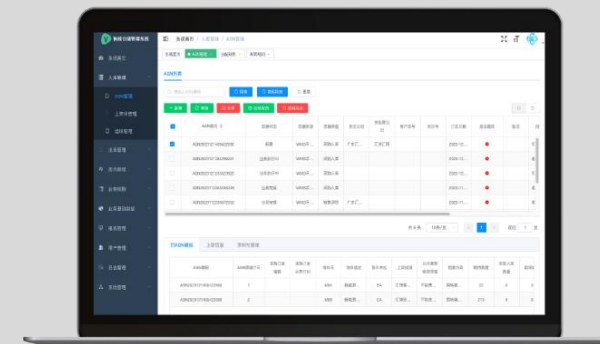


## Digital Information Systems

信息系统

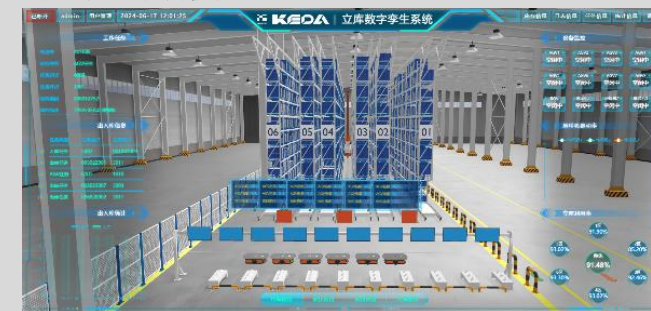
■ Central Control System  
中控系统

Information system, System integration control  
系统集成控制



■ Digital Twin  
数字孪生

Simulation prediction, Virtual-real Interaction  
仿真预测、虚实联动



**Huibo focuses on 4 industrial fields, serves top clients, and has accumulated rich case experience.**

汇博 围绕 4 个行业领域，服务头部客户，积累丰富案例经验。

## ■ Sanitary Ceramics

卫浴陶瓷



## ■ Functional Ceramics

功能陶瓷



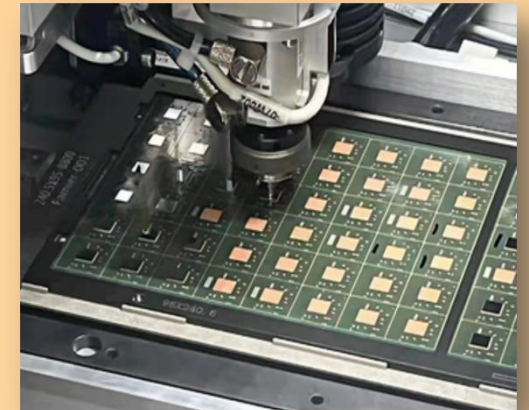
## ■ Steel Structure Embedded Parts

钢结构预埋件



## ■ Semiconductor Assembly and Test (OSAT)

半导体封测

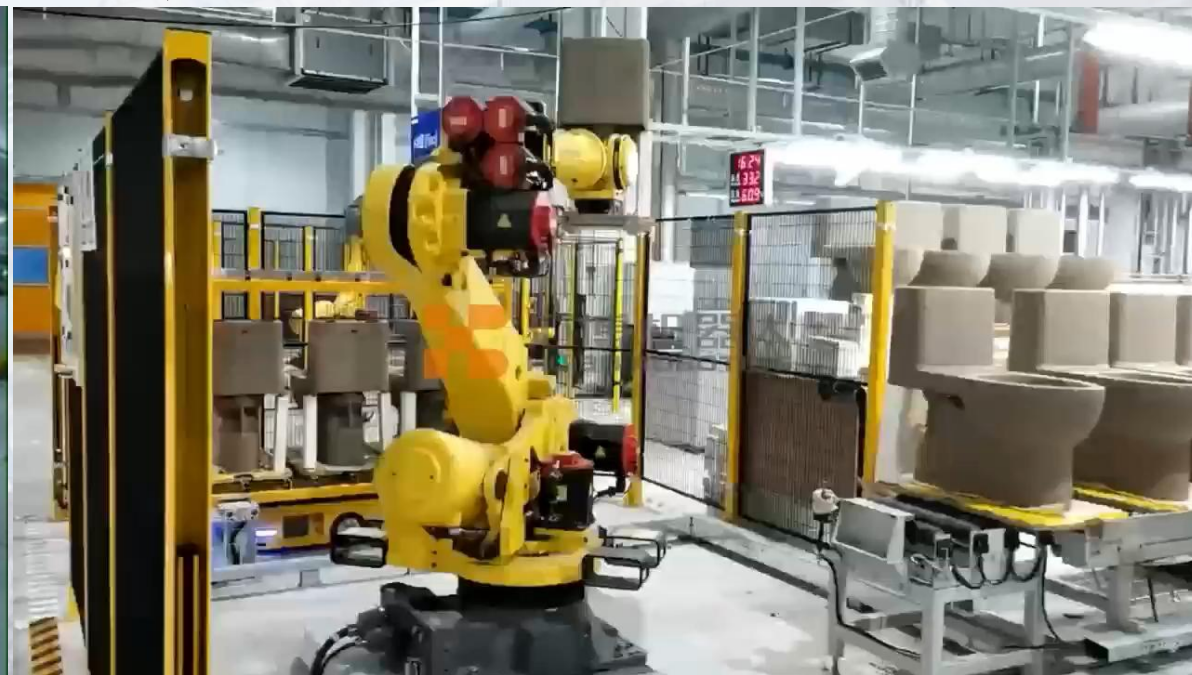


# Industry Case — Sanitary Ceramics

行业案例——卫浴陶瓷

Industry Clients: Kohler, Dongpeng, Arrow, etc.

行业客户：科勒、东鹏、箭牌 等



## Project Introduction:

项目简介

Serving leading customers in the sanitary ware ceramics industry, the company has delivered smart factory projects that cover the full production process, including slip casting, buffer drying, green body finishing and trimming, surface glazing, kiln firing, final inspection, and packaging. Through the application of six-axis robotic arms, AGVs, and other intelligent equipments, these projects have achieved an annual production capacity of 1 million units. Compared with traditional factories, they have reduced labor demand by approximately 200 workers while doubling production capacity.

服务卫浴陶瓷行业头部客户，建设卫浴陶瓷智能工厂，实现了注浆成型、缓存干燥、打磨修坯、表面施釉、窑炉烧成和成检包装等全套生产工序，采用六轴机械臂、AGV等设备，实现100万件/年的产能，相对于传统工厂减少工人约200人，产能翻倍。

# Industry Case — Functional Ceramics

行业案例——功能陶瓷

Industry Clients: Jiuwu Hi-Tech, Guangdong Water Group, South Korea's ECO-Pro, etc.

行业客户：久吾高科、粤海水务、韩国ECO-Pro 等



## Project Introduction: 项目简介

Serving leading domestic and international customers in the functional ceramics industry, the company has developed smart factories for products such as ceramic membranes and ceramic catalysts. These projects cover the complete production process, including mixing, pugging, aging, extrusion, and sintering. By deploying six-axis robotic arms, AGVs, and other intelligent equipment, the company has established smart factories that operate with fewer than 10 personnel.

服务于海内外功能陶瓷行业头部客户，建设了包括陶瓷膜、陶瓷催化剂等产品的功能陶瓷智能工厂，实现了混料、练泥、陈化、挤出、烧结等全套生产工序，采用六轴机械臂、AGV等设备，建成人工少于10人的智能工厂。

# Industry Case — Steel Structure Embedded Parts

行业案例——钢结构预埋件

Industry Clients: CNNC 24 Company, CNNC 23 Company, etc.

行业客户：中核集团二四公司、中核集团二三公司等



Project Layout Diagram  
项目布局图



Raw Material Storage  
原料存储



Laser Cleaning and Rust Removal  
激光清洗除锈



Machining  
机加工



Welding  
焊接



Polishing  
打磨

## Project Introduction 项目简介

For China National Nuclear Corporation (CNNC), the company delivered an automated production line for steel structures such as embedded components and brackets, enabling the automated manufacturing of embedded parts and other steel structural components required for nuclear power plant construction. The project integrates robotic welding, robotic grinding, AGV-based logistics transport, and other advanced equipment, improving production efficiency by 15% while reducing labor demand to less than one-tenth of that of a conventional factory.

为中核集团建设针对预埋件、支架等钢结构的自动化产线，实现了核电站建设中预埋件等钢结构的自动化生产，项目采用机器人焊接、机器人打磨、AGV物流运输等设备，效率提升15%，用人减少不足传统工厂的1/10。

# Industry Case — Semiconductor Assembly and Test

行业案例——半导体封测

Industry Clients: Huatian Technology, etc.

行业客户：华天科技 等

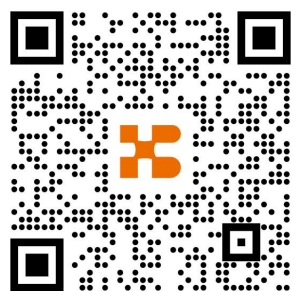
## Project Introduction: 项目简介

Serving leading customers in the Semiconductor Assembly and Test Industry to build a smart factory. These projects enable automated production across key processes, including nitrogen-purged automated warehousing, tinning and forming, softening, and marking. By deploying six-axis robotic arms, collaborative robots, AGVs, stacker cranes, and automated high-bay warehouses, the company has reduced manpower requirements by approximately 100 personnel while increasing production capacity by 30%.

服务半导体封测行业头部客户，建设半导体封测智能工厂，实现了充氮气自动化仓储、锡化成型、软化、打标等环节的自动化生产，采用六轴机械臂、协作机器人、AGV、堆垛机立体库等设备，实现减员约100人，产能提升30%。



# THANKS



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