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武汉华中数控股份有限公司
Wuhan Huazhong Numerical Control Co.,Ltd.

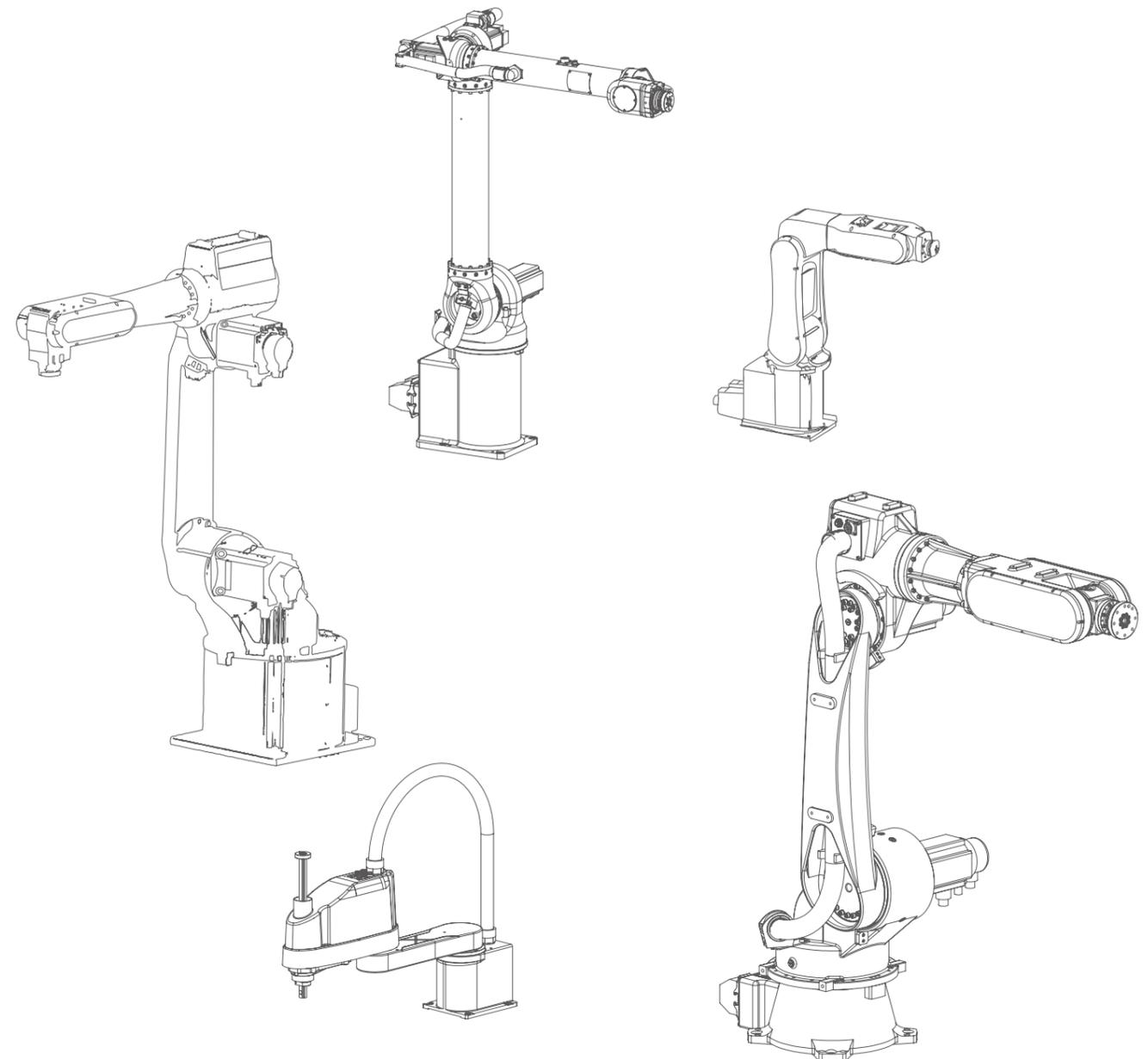
Address: Wuhan science and Technology Park, Huazhong
University of Science and Technology

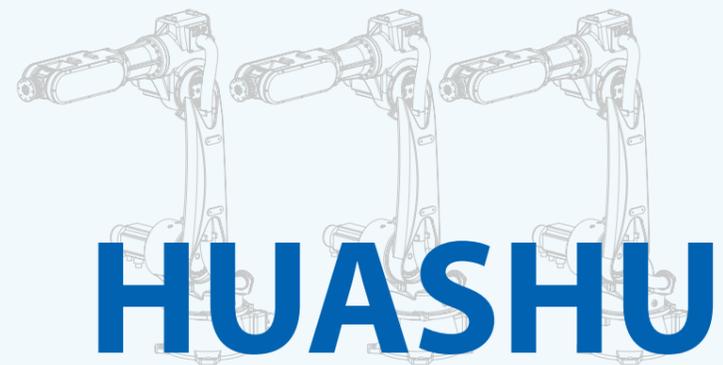
Postcode: 430223

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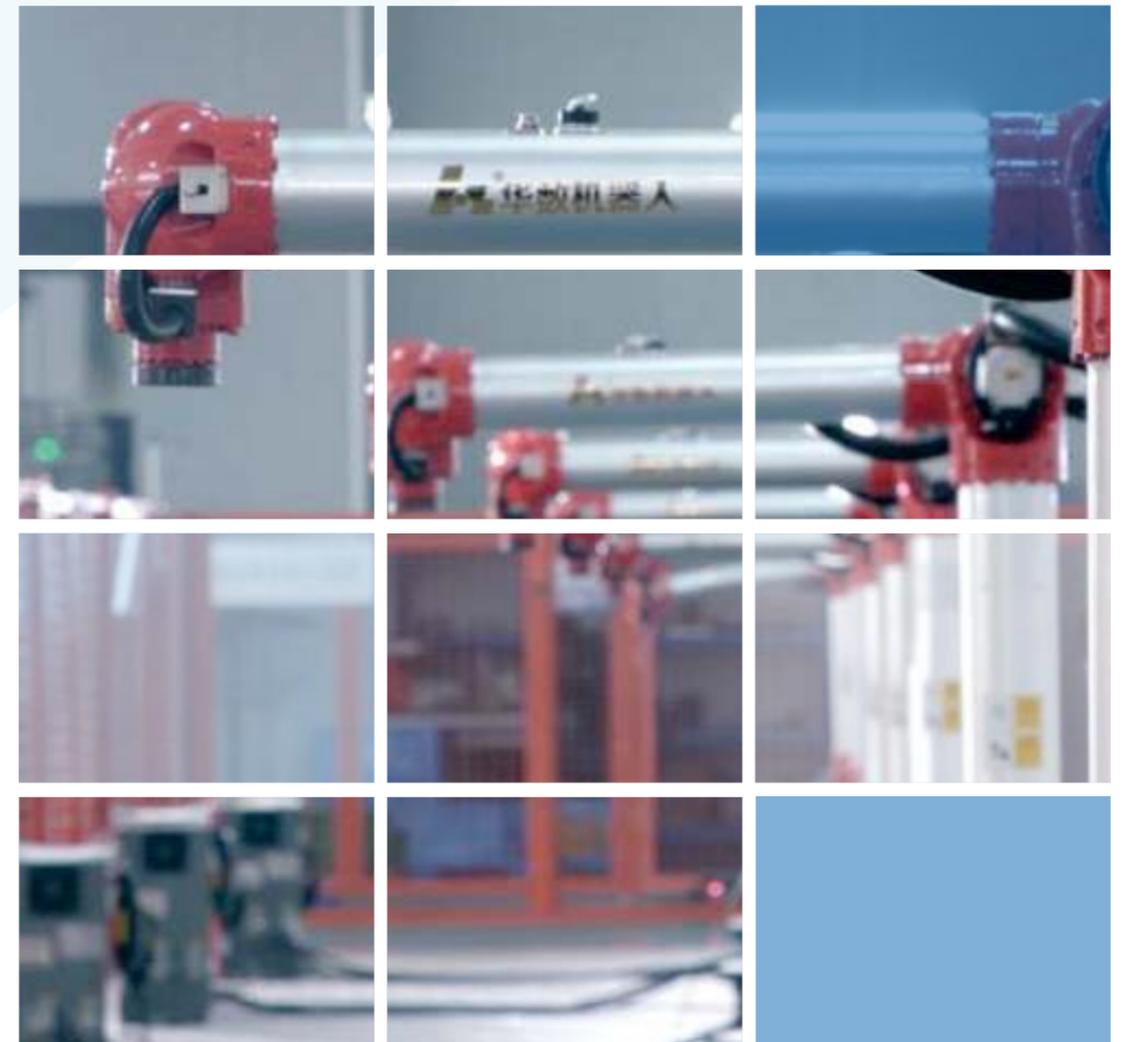


HUASHU ROBOT

Equipping "China Intelligent Manufacturing" with "Advanced Industrial Robots".

Strategic Approach

- Market-oriented
- Innovation-oriented
- Quality-oriented
- Life-oriented and Talent-based





DEVELOPMENT
DOMESTIC ROBOT
INDUSTRY IS OUR RESPONSIBILITY



Production base



Production base

Huashu Robot is a subsidiary of Wuhan Huazhong Numerical Control Co., Ltd. (stock code: 300161). It has subsidiaries in Foshan, Chongqing, Shenzhen, Dongguan, Ningbo, Suzhou and Quanzhou. Its main business involves the development, production and sales of industrial robots. Automated production solutions for various industries have won many awards such as high-tech enterprises, academician workstations, and doctoral service stations. At present, the production base, R&D center, testing center and exhibition center have been completed.

Since the establishment of Huashu Robot, it has been committed to creating a national brand industrial robot with independent innovation, and adhering to the user-centered, focusing on market application, taking quality as life and taking core functional components as our tenet, relying on Wuhan Huazhong Numerical Control Co., Ltd. and Foshan Intelligent Equipment Technology Research Institute, we have developed a "PCLC" industrial robot development strategy: Taking the general multi-joint industrial robot product (P) as the main direction, taking the domestic robot core component (C) research and development and industrialization as the breakthrough, the industrial robot automation line (L) application as the goal, and the intelligent cloud platform (C) as the The industry's surprisingly successful weapon, focusing on the development of robot body and machine performance and reliability, and actively application development such as automation, intelligence, and smart factories.

Already it has an annual production capacity of 10,000 industrial robots.

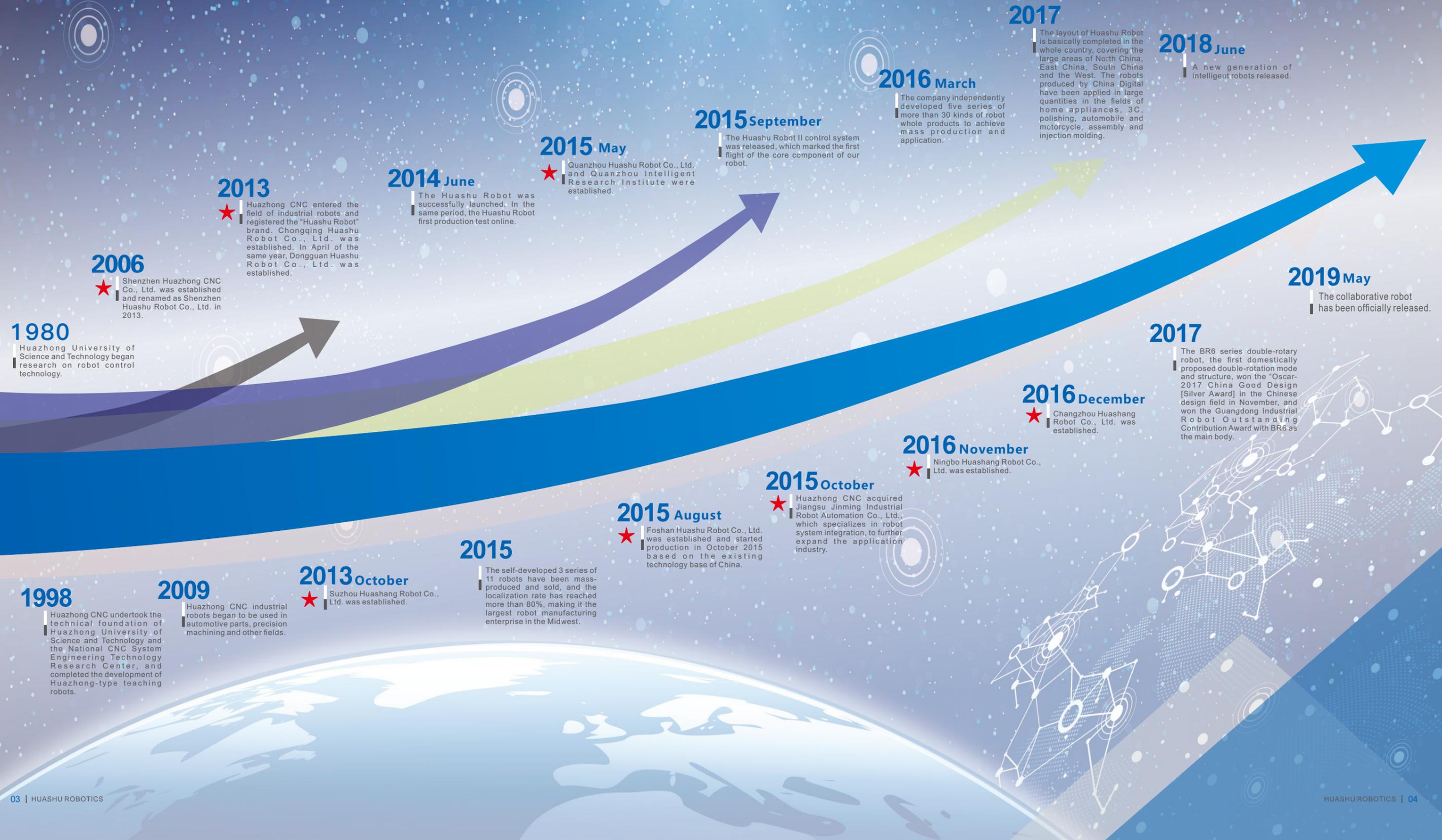
The Huashu Robot has six series of robots with 30 specifications and has developed nearly 10 specifications of robot core components such as robot controllers, teach pendants and servo drives. Its products have been widely used in Foshan, Chongqing, Dongguan, Shenzhen, Quanzhou, Wuhan, Suzhou, Ningbo, Shenyang, Fuyang, Ezhou and other places, covering stamping, injection molding, machine plus blanking, welding, spraying, polishing, Polishing, etc.

The Huashu Robot is deeply integrated into the construction of the National Robot Integration Innovation Center, which encourages enterprises to actively participate in the "Made in China 2025" to promote the research and development, production and promotion of industrial automation production equipment, promote industrial upgrading and transformation, and improve industrial competitiveness. Huashu Robot strives to be the leader in the development, manufacturing and application of industrial robot products in China, the best engineering contractor for robotic automation solutions, and the best provider of intelligent manufacturing and smart factory solutions.

Development History

Quality is the foundation, and the foundation is not firmly shaken.
Quality is life, if life is not guaranteed, how to talk about development!

In the same boat, you walk together, grow all the way,
all the way. Honor records the footsteps of history,
wonderfully written in the moment.



1980
Huazhong University of Science and Technology began research on robot control technology.

2006
★ Shenzhen Huazhong CNC Co., Ltd. was established and renamed as Shenzhen Huashu Robot Co., Ltd. in 2013.

2013
★ Huazhong CNC entered the field of industrial robots and registered the "Huashu Robot" brand. Chongqing Huashu Robot Co., Ltd. was established. In April of the same year, Dongguan Huashu Robot Co., Ltd. was established.

2014 June
The Huashu Robot was successfully launched. In the same period, the Huashu Robot first production test online.

2015 May
★ Quanzhou Huashu Robot Co., Ltd. and Quanzhou Intelligent Research Institute were established.

2015 September
The Huashu Robot II control system was released, which marked the first flight of the core component of our robot.

2016 March
The company independently developed five series of more than 30 kinds of robot whole products to achieve mass production and application.

2017
The layout of Huashu Robot is basically completed in the whole country, covering the large areas of North China, East China, South China and the West. The robots produced by China Digital have been applied in large quantities in the fields of home appliances, 3C, polishing, automobile and motorcycle, assembly and injection molding.

2018 June
A new generation of intelligent robots released.

2019 May
The collaborative robot has been officially released.

2017
The BR6 series double-rotary robot, the first domestically proposed double-rotation mode and structure, won the "Oscar-2017 China Good Design [Silver Award]" in the Chinese design field in November, and won the Guangdong Industrial Robot Outstanding Contribution Award with BR6 as the main body.

2016 December
★ Changzhou Huashang Robot Co., Ltd. was established.

2016 November
★ Ningbo Huashang Robot Co., Ltd. was established.

2015 October
★ Huazhong CNC acquired Jiangsu Jinming Industrial Robot Automation Co., Ltd., which specializes in robot system integration, to further expand the application industry.

2015 August
★ Foshan Huashu Robot Co., Ltd. was established and started production in October 2015 based on the existing technology base of China.

2015
The self-developed 3 series of 11 robots have been mass-produced and sold, and the localization rate has reached more than 80%, making it the largest robot manufacturing enterprise in the Midwest.

2013 October
★ Suzhou Huashang Robot Co., Ltd. was established.

2009
Huazhong CNC industrial robots began to be used in automotive parts, precision machining and other fields.

1998
Huazhong CNC undertook the technical foundation of Huazhong University of Science and Technology and the National CNC System Engineering Technology Research Center, and completed the development of Huazhong-type teaching robots.



Intellectual Property

Through independent research and development, it has overcome many core key technologies in industrial robot control, drive, design, application, automation, engineering, etc., and formed more than 300 independent property rights to fill a number of domestic gaps.



High-tech products / Innovative products



- ◇ 双旋机器人荣获“广东省高新技术产品”称号
- ◇ HSR-JR612机器人荣获“广东省高新技术产品”称号
- ◇ 工业机器人职业技能竞赛平台荣获“广东省高新技术产品”称号
- ◇ HSR-HC410机器人荣获“广东省高新技术产品”称号
- ◇ SCARA机器人荣获“广东省高新技术产品”称号
- ◇ HSR-BR双旋机器人荣获“最具创新产品奖”
- ◇ 30KG6轴机器人荣获“广东省高新技术产品”称号
- ◇ 理实一体化机器人荣获“广东省创新产品”称号
- ◇ 5KG6轴机器人荣获“广东省高新技术产品”称号
- ◇ 多功能实训机器人荣获“广东省创新产品”称号
- ◇ HSR-JR620机器人荣获“广东省高新技术产品”称号
- ◇ 模块化本体装调机器人荣获“广东省创新产品”称号
- ◇ 模块化电气装调机器人荣获“广东省创新产品”称号
- ◇

Robot technology patent



- ◇ Numerical method for obtaining the inverse kinematics of six-degree-of-freedom serial robot with offset joints
- ◇ Mobile phone shell grinding workstation based on industrial robot
- ◇ Machining fixture of robot
- ◇ A method for storing double-buffer robot software logs
- ◇ Flexible positioning system
- ◇ Six-axis robot capable of flexible wiring
- ◇ Cooling fan for air conditioning and air circulation in negative pressure process
- ◇ Control cabinet of industrial robot
- ◇ About the gradient table with constant table pressure controlled by servo drive device
- ◇ Auxiliary unit of the grinding robot on the press line
- ◇ Automatically polishing system based on robot
- ◇ Stamping system of the edge connecting equipment used for metal stamping
- ◇ A transport device that can be automatically loaded and unloaded on a pier
- ◇ Robot apparatus teaching platform and its control system
- ◇ Multiport industrial robot base
- ◇ The invention of the general SCARA robot
- ◇ TCP calibration method of industrial robots
- ◇ Control method of front and rear axle drive electric vehicle in regenerative braking process
- ◇ A joint robot
- ◇ Robotic multi-functional fixture
- ◇ The conveying drum line of the carton
- ◇ Robotic paper card suction cup fixture
- ◇ Multi-part industrial robot design with high protection
- ◇ Robotic control system for spraying
- ◇ Automated assembly line
- ◇ Modular automatically paper feeding board of robot
- ◇ Adjustable paper card storage mechanism
- ◇ Adjustable robotic table
- ◇ Automated assembly and packaging line
- ◇ Intelligent stamping workstation of industrial robots
- ◇

Served Huazhong CNC DIVY CNC machine control software

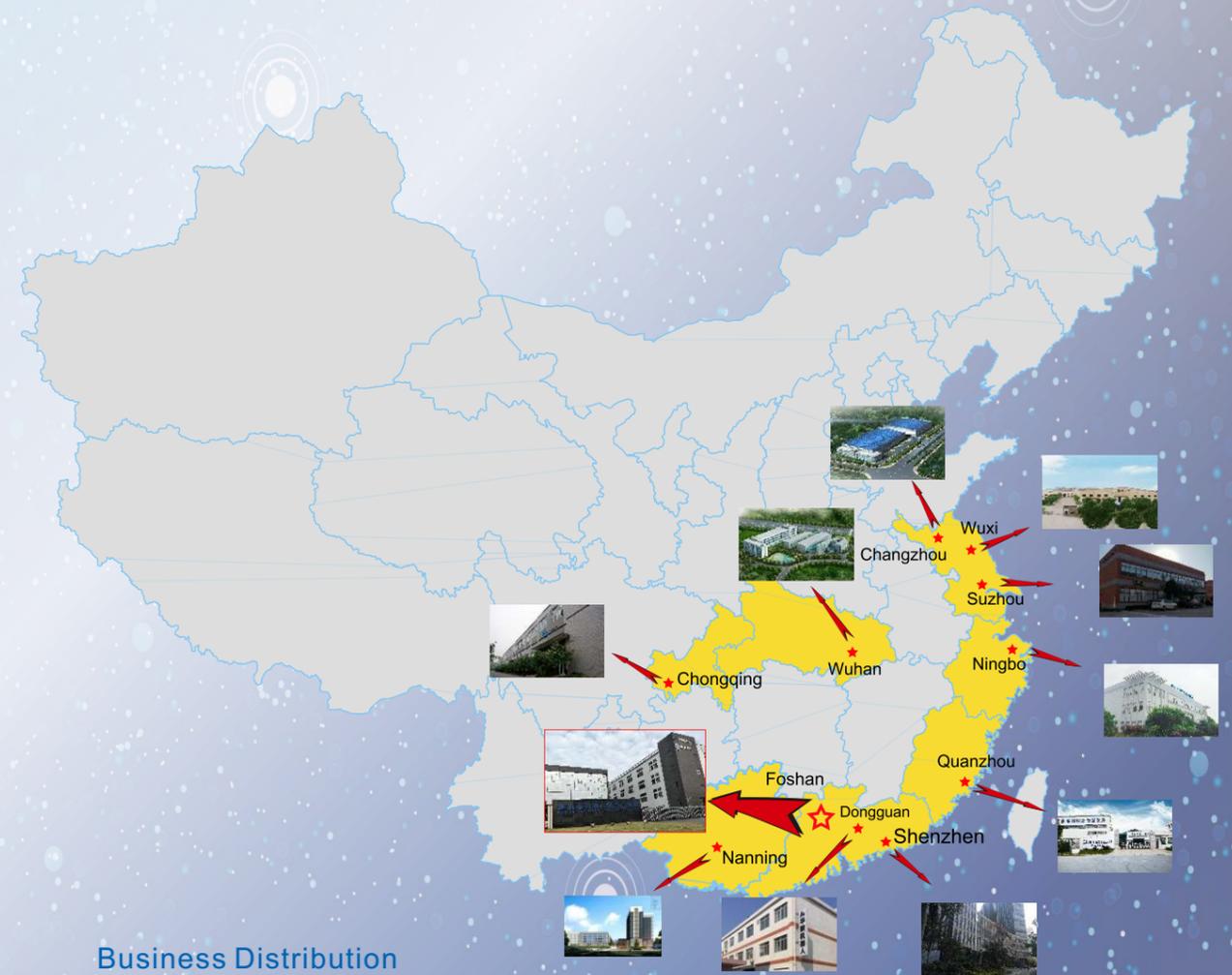
Software copyright



- ◇ A motor electric field phase zero correction system and calibration method
- ◇ A test system and method for servo driver frequency response
- ◇ Circuit for suppressing surge current by PTC resistor
- ◇ A utility model of inverter based on single-tube IGBT inverter
- ◇ Multi-channel data transmission and method based on single-chip asynchronous serial port
- ◇ (New type) isolated DC power supply 201621170925.1 the patent certificate
- ◇ A high-power multi-purpose three-phase voltage supply system
- ◇ Stator of motor
- ◇ Mixed iron core motor
- ◇ Rotor of AC permanent magnet servo motor
- ◇ Rotor of permanent magnet synchronon motor
- ◇ Servo driver auxiliary debugging Software copyright
- ◇ Hardware monitoring platform software
- ◇ Huashu Robotic control system V1.0 for small appliance assembly line
- ◇ Huashu Robotic automation master control software system V2.0.503
- ◇ Servo drive control system of industrial robot
- ◇ Debugging platform of Control Assistant system for Huashu III Controller
- ◇ Huashu Robotic control system V1.0 for stamping line
- ◇ Huashu Robotic control system V1.0 for applying to the teaching platform
- ◇

Service Network

No matter when and where the service is always the same.



Business Distribution

With the continuous development of Huashu Robot, the service network has gradually covered all parts of the country. At the same time, Huashu Robot has developed a strict and systematic service standard system, which provides unified standardization management for production, sales and service outlets, and provides comprehensive technical training services and timely pre-sales and after-sales services for users in various regions with long-term resident mode service.

Service System

Directly facing the user's service terminal is an important support for the promotion and development of the Chinese digital robot brand. It also enables each user to truly experience the high-quality service of the Chinese robot in any place with Chinese products.

3C Industry The application case

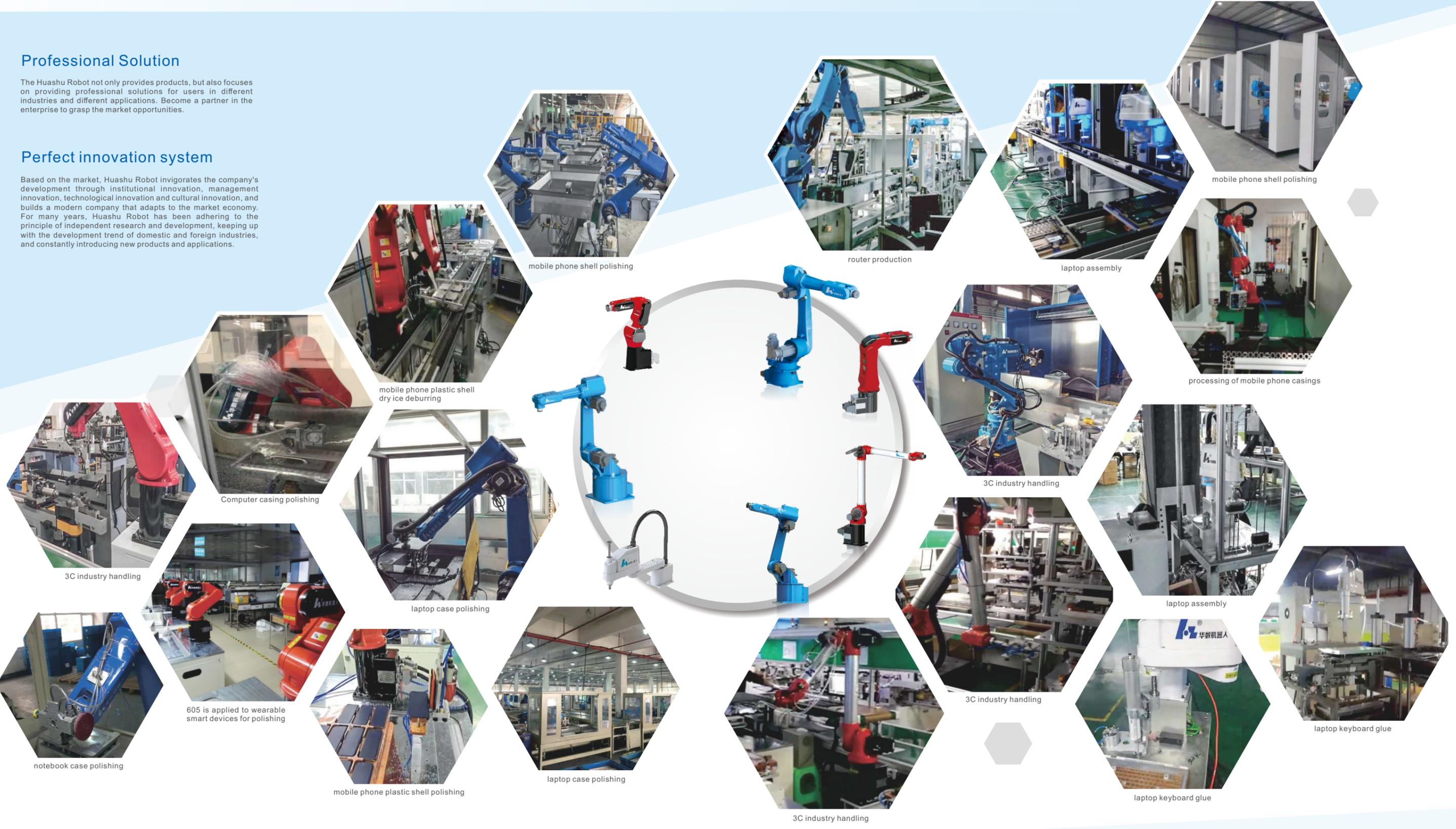
Quality is the foundation, and the foundation is not firmly shaken.
Quality is life, if life is not guaranteed, how to talk about development!

Professional Solution

The Huashu Robot not only provides products, but also focuses on providing professional solutions for users in different industries and different applications. Become a partner in the enterprise to grasp the market opportunities.

Perfect innovation system

Based on the market, Huashu Robot invigorates the company's development through institutional innovation, management innovation, technological innovation and cultural innovation, and builds a modern company that adapts to the market economy. For many years, Huashu Robot has been adhering to the principle of independent research and development, keeping up with the development trend of domestic and foreign industries, and constantly introducing new products and applications.



CNC The application case

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Home appliance industry The application case

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load and unload the machining center

load and unload the machining center

sheet metal stamping

sheet metal stamping

sheet metal stamping

sheet metal stamping

home appliance assembly

home appliance assembly

home appliance assembly

kitchen polishing

kitchen polishing

Tool grinding

Lathe application

Lathe application

Lathe application

CNC lifting application

load and unload the machining center

load and unload the machining center

load and unload the machining center

CNC machining loading and unloading

The car industry The application case

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Other industries The application case

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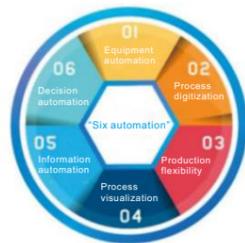
Whole plant automation solution

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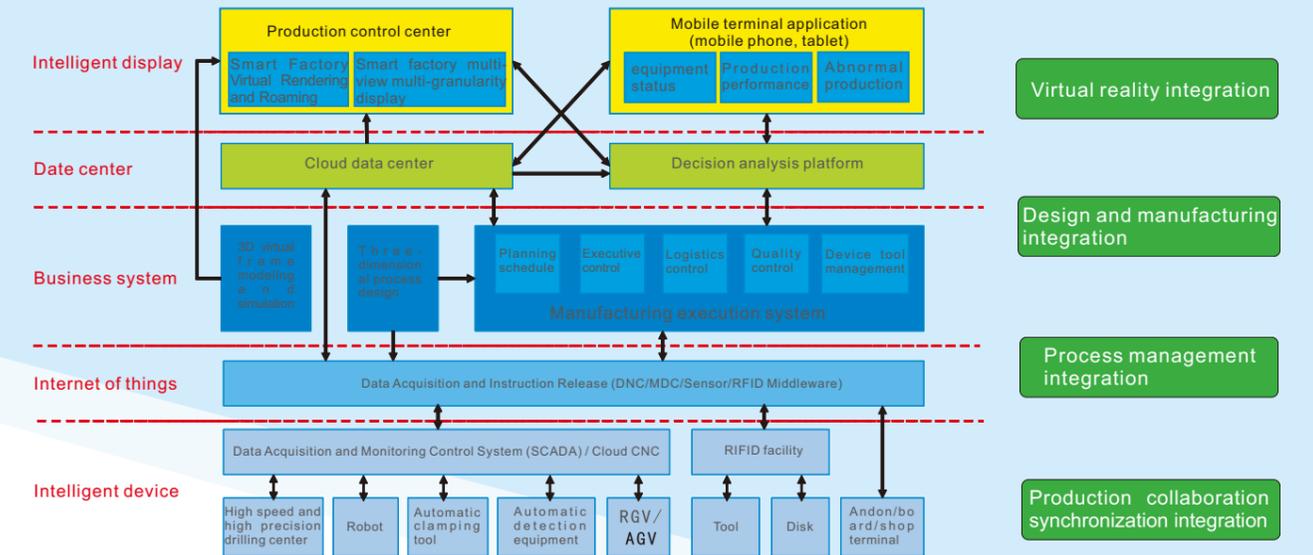
◆ A company has built an intelligent workshop with 10 automated drilling and attacking production lines. The intelligent workshop includes 180 domestic high-speed high-precision drilling and attack centers equipped with Huazhong CNC HNC-818AM system, 120 Chinese robots, 30 RGV, and 1 set. AGV trolley, 1 set of automatic batching detection system. At the same time, it is equipped with industrial software system of national production, including Huazhong CNC new generation cloud numerical control system platform, CAPP, APS advanced scheduling system, MES production management system, 3D virtual simulation system, etc., selected by the Ministry of Industry and Information Technology and the Chinese Academy of Engineering. The only demonstration site of the National Intelligent Manufacturing Pilot Model Exchange Conference.



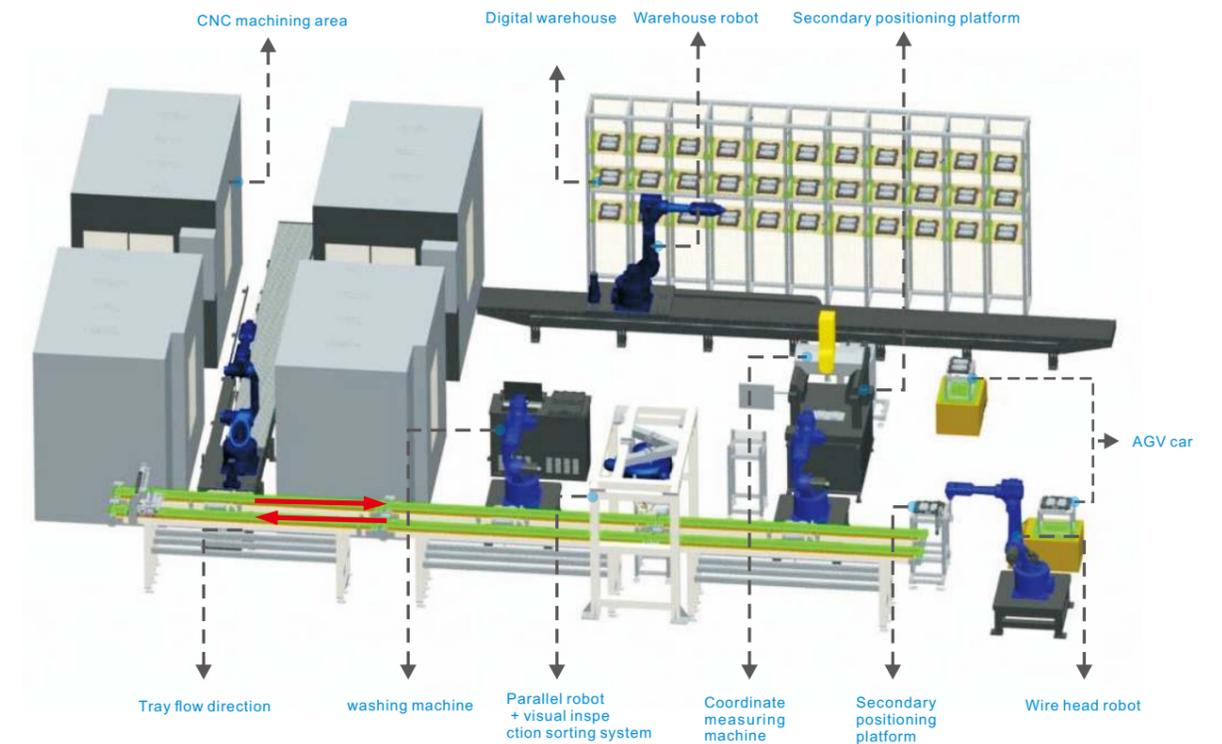
“Three countries” “Six automation” “One core”



One core



Floor plan



Whole plant automation solution

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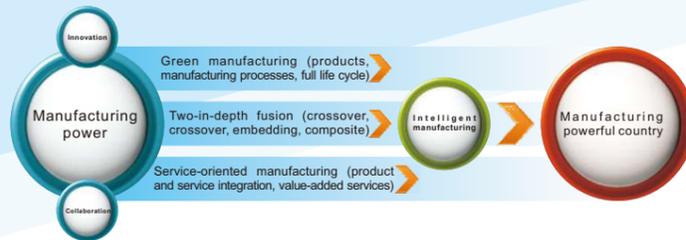
Program overview

This system is an automated overall solution for unmanned automated machining and robotic connection. Through the use of China 612 and 620 series robots, RGV automatic car, the handling between machining is realized; the whole line is controlled by a main control system (Huazhong CNC system) to realize the automation of the workshop, and the robot and the whole The line master control system all adopts the Huazhong CNC system, which can connect the production data to the erp management system, realize the information management of the workshop, and further improve the workshop grade.



Background of the project

The intelligent upgrade of the manufacturing industry has become a global development trend. "Industry 4.0" is the fourth industrial revolution led by intelligent manufacturing. In the manufacturing field, the traditional production process and production process are transformed through network technology, computer technology, information technology, software and automation technology, aiming at improving the manufacturing industry. Intelligent level, establish a smart factory with adaptability, resource efficiency and human factors engineering.



Project value

*The smart factory program closely follows the main direction of "Made in China 2025", with distinctive features and advanced features. Will help attract better student resources and teachers, and enhance the overall "brand image" of the school.

*Smart factory solutions cover CNC, robotics, machinery, electronics, electrical, automation, control, computers, software, information systems, statistics Knowledge in multidisciplinary fields such as management can be used as a comprehensive teaching and training platform for interdisciplinary schools;

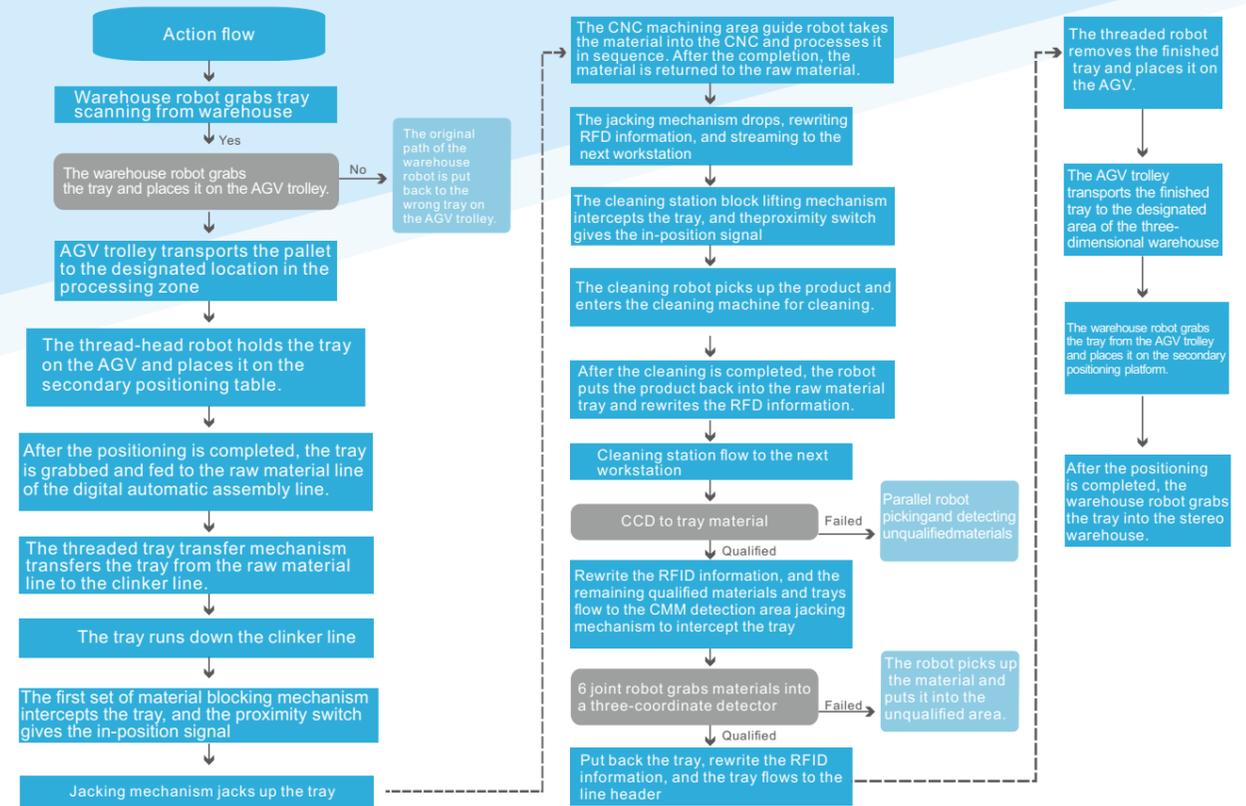
*The smart factory solution can be used for daily teaching as well as for actual production and processing, which can enable students' ability and enterprise's demand for intelligent manufacturing talents.

*The soft and hardware modules of the intelligent factory have good openness. Based on this platform, relevant professional teachers and students can carry out more in-depth independent research work.

Project significance

- 70%** Production staff saves more than 70%: robotic automated production
- 30%** Reduce product defect rate by more than 30%: online detection, product information tracking in real time, avoiding defective product circulation; intelligently optimize processing technology and procedures to improve product quality.
- 30%** Shorten the product development cycle by more than 30%: the use of digital design software such as PLM and CAPP, and the integrated application of intelligent design and 3D process library
- 25%** Improve equipment utilization by more than 25%: APS smart row Production, MES system application, digitalization of information transmission, Mixed flow production, etc.
- 15%** Workshop energy utilization increased by more than 15%, energy consumption is unchanged;
- Enterprise human resources quality improvement: school to business Go, customize and train talents;
- Promote enterprise upgrade and transformation: traditional manufacturing, service-oriented manufacturing, the company turned gorgeous.

Action flow



An automotive electronic equipment adopts the overall factory automation solution designed and designed by our company. The whole project focuses on the automated production and intelligent detection of the body controller (BCM) and the vehicle engine temperature and pressure sensor (TMAP). Production and intelligent testing realize the traceability of each process of the product; reduce the labor while ensuring the stability of product quality, and greatly reduce the labor cost of the enterprise.



A smart factory workshop contains 200 sets of China Huazhong CNC high-speed drilling and attacking 106 Chinese robots, 10 AGV cars, 20 automatic conveyor lines, and a series of intelligent industrial software. After the project is completed, it will save more than 60% of the manpower. Reduce product defect rate by more than 20%.

HSR-BR/JR Series

Six-axis Joint Robot Main Parameter List



Product model		HSR-BR604/606/609	HSR-BR610	HSR-BR616	HSR-BR5110	HSR-JR603	HSR-JR605	HSR-JH605	HSR-JM612	HSR-JR612	HSR-JR620L	HSR-JR630	HSR-JR650L/680	
Degree of freedom		6	6	6	5	6	6	6	6	6	6	6	6	
Payload		4 / 6 / 9kg	10kg	16kg	110kg	3kg	5kg	5kg	12kg	12kg	20kg	30kg	50 / 80kg	
Maximum moving radius		1402/1222/1042mm	1310mm	1599.6mm	2400mm	571.5mm	746mm	1441mm	1405mm	1555mm	1848mm	1701mm	2400 / 2200.4mm	
Repeat positioning accuracy		±0.06/±0.05mm	±0.05mm	±0.05mm	±0.2mm	±0.02mm	±0.02mm	±0.06mm	±0.06mm	±0.06mm	±0.06mm	±0.05mm	±0.08 / ±0.07mm	
Range of motion	J1	±155°	±155°	±154°	±180°	±180°	±200°	±150°	±170°	±170°	±160°	±160°	±180°	
	J2	-178° / -2°	-178° / -2°	-178° / -2°	-180° / +80°	-160° / +10°	-180° / 0°	-145° / +65°	-170° / +75°	-170° / +75°	-175° / +75°	-175° / +75°	-160° / 70°	
	J3	+141.5° / +398.5°	+120° / +420°	+103° / +437°	+20° / +330°	-25° / +235°	+80° / +240°	+35° / +265°	+40° / +265°	+40° / +265°	+40° / +265°	+40° / +265°	+10° / 265°	
	J4	±90°	±190°	±360°	±120°	±180°	±180°	±120° (± 150°)	±180°	±180°	±180°	±180°	±180°	
	J5	±96.5°	±150°	±161°	±360°	±105°	±115°	±105°	±125°	±108°	±125°	±125°	±110°	
	J6	±360°	±360°	±360°	-	±360°	±360°	±360°	±360°	±360°	±360°	±360°	±360°	
Rated speed	J1	240° /s, 4.18rad/s / 240° /s, 4.18rad/s / 222° /s, 3.87rad/s	204° /s, 3.56rad/s	157° /s, 2.73rad/s	85° /s, 1.48rad/s	262.5° /s, 4.58rad/s	222° /s, 3.87rad/s	148° /s, 2.58rad/s	148° /s, 2.58rad/s	148° /s, 2.58rad/s	99° /s, 1.73rad/s	99° /s, 1.73rad/s	85° /s, 1.48rad/s	
	J2	200° /s, 3.48rad/s / 200° /s, 3.48rad/s / 175° /s, 3.05rad/s	175° /s, 3.05rad/s	145° /s, 2.52rad/s	78° /s, 1.35rad/s	262.5° /s, 4.58rad/s	180° /s, 3.14rad/s	148° /s, 2.58rad/s	148° /s, 2.58rad/s	148° /s, 2.58rad/s	87° /s, 1.52rad/s	87° /s, 1.52rad/s	85° /s, 1.48rad/s	
	J3	240° /s, 4.18rad/s / 240° /s, 4.18rad/s / 198° /s, 3.45rad/s	240° /s, 4.19rad/s	178° /s, 3.10rad/s	70° /s, 1.22rad/s	262.5° /s, 4.58rad/s	225° /s, 3.93rad/s	148° /s, 2.58rad/s	148° /s, 2.58rad/s	148° /s, 2.58rad/s	144° /s, 2.51rad/s	144° /s, 2.51rad/s	104° /s, 1.81rad/s	
	J4	300° /s, 5.23rad/s / 300° /s, 5.23rad/s / 225° /s, 3.92rad/s	314° /s, 5.48rad/s	221° /s, 3.85rad/s	187.5° /s, 3.27rad/s	262.5° /s, 4.58rad/s	235° /s, 4.1rad/s	225° /s, 3.93rad/s	360° /s, 6.28rad/s	360° /s, 6.28rad/s	180° /s, 3.14rad/s	180° /s, 3.14rad/s	177° /s, 3.08rad/s	
	J5	300° /s, 5.23rad/s / 300° /s, 5.23rad/s / 225° /s, 3.92rad/s	240° /s, 4.19rad/s	180° /s, 3.14rad/s	225° /s, 3.93rad/s	262.5° /s, 4.58rad/s	222° /s, 3.87rad/s	225° /s, 3.93rad/s	180° /s, 3.93rad/s	225° /s, 3.93rad/s	180° /s, 3.14rad/s	180° /s, 3.14rad/s	155° /s, 2.7rad/s	
	J6	480° /s, 8.37rad/s / 480° /s, 8.37rad/s / 360° /s, 6.28rad/s	480° /s, 8.38rad/s	360° /s, 6.28rad/s	-	420° /s, 7.33rad/s	360° /s, 6.28rad/s	225° /s, 3.93rad/s	360° /s, 6.28rad/s	360° /s, 6.28rad/s	225° /s, 3.92rad/s	225° /s, 3.92rad/s	187° /s, 3.26rad/s	
Maximum speed	J1	300° /s, 5.23rad/s	240° /s, 4.19rad/s	236° /s, 4.12rad/s	128° /s, 2.23rad/s	375° /s, 6.54rad/s	370° /s, 6.45rad/s	198.35° /s, 3.44rad/s	198.35° /s, 3.44rad/s	198.35° /s, 3.44rad/s	148° /s, 2.59rad/s	148° /s, 2.59rad/s	127.5° /s, 2.22rad/s	
	J2	250° /s, 4.36rad/s	250° /s, 4.36rad/s	217° /s, 3.78rad/s	116° /s, 2.03rad/s	375° /s, 6.54rad/s	300° /s, 5.23rad/s	198.35° /s, 3.44rad/s	198.35° /s, 3.44rad/s	198.35° /s, 3.44rad/s	109° /s, 1.9rad/s	109° /s, 1.9rad/s	127.5° /s, 2.22rad/s	
	J3	360° /s, 6.28rad/s	300° /s, 5.23rad/s	357° /s, 6.23rad/s	105° /s, 1.84rad/s	375° /s, 6.54rad/s	375° /s, 6.54rad/s	198.35° /s, 3.44rad/s	198.35° /s, 3.44rad/s	198.35° /s, 3.44rad/s	172° /s, 3.01rad/s	172° /s, 3.01rad/s	104° /s, 1.81rad/s	
	J4	450° /s, 7.85rad/s	392° /s, 6.84rad/s	443° /s, 7.72rad/s	225° /s, 3.93rad/s	375° /s, 6.54rad/s	391.6° /s, 6.83rad/s	450° /s, 7.86rad/s	600° /s, 10.47rad/s	600° /s, 10.47rad/s	300° /s, 5.23rad/s	300° /s, 5.23rad/s	177° /s, 3.08rad/s	
	J5	375° /s, 6.54rad/s	300° /s, 5.23rad/s	360° /s, 6.28rad/s	300° /s, 5.23rad/s	375° /s, 6.54rad/s	370° /s, 6.45rad/s	450° /s, 7.86rad/s	300° /s, 6.54rad/s	375° /s, 6.54rad/s	300° /s, 5.23rad/s	300° /s, 5.23rad/s	155° /s, 2.7rad/s	
	J6	600° /s, 10.46rad/s	600° /s, 10.46rad/s	720° /s, 12.56rad/s	-	600° /s, 10.46rad/s	600° /s, 10.46rad/s	450° /s, 7.86rad/s	600° /s, 10.47rad/s	600° /s, 10.47rad/s	375° /s, 6.54rad/s	375° /s, 6.54rad/s	187° /s, 3.26rad/s	
Allowable moment of inertia	J6	0.15kgm ²	0.15kgm ²	0.15kgm ²	-	0.05kgm ²	0.1kgm ²	0.035kgm ²	0.17kgm ²	0.17kgm ²	0.8kgm ²	0.8kgm ²	25kgm ²	
	J5	0.23kgm ²	0.42kgm ²	0.85kgm ²	11.31kgm ²	0.05kgm ²	0.36kgm ²	0.3kgm ²	1.2kgm ²	1.2kgm ²	3.3kgm ²	3.3kgm ²	32.7kgm ²	
	J4	0.42kgm ²	0.42kgm ²	0.99kgm ²	45.77kgm ²	0.05kgm ²	0.5kgm ²	0.3kgm ²	1.2kgm ²	1.2kgm ²	8.7kgm ²	8.7kgm ²	32.7kgm ²	
Allowable torque	J6	12.7Nm	12.7Nm	12.7Nm	-	6.4Nm	8Nm	15Nm	15Nm	15Nm	30.7Nm	30.7Nm	330Nm	
	J5	16.5Nm	20.4Nm	28.0Nm	327.89Nm	6.4Nm	16Nm	35Nm	35Nm	35Nm	73.4Nm	73.4Nm	340Nm	
	J4	20.4Nm	20.4Nm	34.0Nm	707.92Nm	12.7Nm	18Nm	35Nm	35Nm	35Nm	140.4Nm	140.4Nm	400Nm	
Applicable environment	temperature	0° C ~ 45° C	0° C ~ 45° C	0° C ~ 45° C	0° C ~ 45° C	0° C ~ 45° C	0° C ~ 45° C	0° C ~ 45° C	0° C ~ 40° C	0° C ~ 45° C	0° C ~ 45° C	0° C ~ 45° C	0° C ~ 45° C	
	humidity	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%	
Teacher cable length		8M	8M	8M	8M	8M	8M	8M	8M	8M	8M	8M	8M	
Body-cabinet connection line length		3M	3M	3M	8M	3M	3M	5M	6M	6M	6M	6M	8M	
I/O parameters		Digital quantity:32 input,31 output				Digital quantity:32 input,32output		Digital quantity:32 input,31output		Digital quantity:32 input,31 output				
Battery capacity		2.6kVA	3kVA	4.3kVA	17kVA	0.8kVA	1.5kVA	2.5kVA	3.8kVA	3.8kVA	5.6kVA	5.6kVA	7.5kVA	
Rated power / voltage / current		2.1kW / 220V / 11.3A	2.4kW / 220V / 13A	3.2kW / 220V / 17.1A	14kW / 380V / 20.77A	0.6kW / 220V / 3.2A	1.2kW / 220V / 6.5A	2kW / Single220V / 10.8A	3kW / 380V / 5.4A	3kW / 380V / 5.4A	4.5kW / 380V / 8.1A	4.5kW / 380V / 8.1A	6kW / 380V / 10.8A	
Protection level		IP54	IP54, The front of the armIP67	IP67	IP50	IP54	IP54	IP54	IP54 / IP65(Wrist)	IP54 / IP65(Wrist)	IP54	IP54	IP54 / IP65(Wrist)	
Installation method		ground/upside down/side mount/Install in any direction			Ground mounts		ground/Upside down/Side mount/Install in any direction		Ground/Upside down/Side mount/Install in any direction		Ground/Side mount/Inverted installation		Ground/Side mount/Inverted installation	
Body weight		52 / 50 / 48kg	61kg	128kg	980kg	27kg	55kg	196kg	217kg	196kg	305kg	305kg	720kg	

HSR-HC/SR/DT Series

Four-axis Joint Robot Main Parameter List



Product model		HSR-HC410	HSR-HC415	HSR-HC420	HSR-HC403	HSR-SR3400	HSR-SR6600	HSR-SR5700	HSR-DT401E	HSR-DT801B	
Degree of freedom		4	4	4	4	4	4	4	4	4	
Payload		10kg	15kg	20kg	3kg	3 / 1kg	6 / 2kg	5 / 2kg	1kg	1kg	
Maximum moving radius		1402mm	1402mm	2000mm	585mm	400mm	600mm	700mm	200mm	400mm	
Repeat positioning accuracy		±0.05mm	±0.05mm	±0.08mm	±0.02mm	±0.01mm	±0.02mm	±0.02mm	±0.1mm	±0.1mm	
Range of motion	J1	±145°	±145°	±145°	0-145mm	±132°	±132°	±132°	5° /+125°	5° /+125°	
	J2	±135°	±135°	±135°	±150°	±135°	±150°	±150°	5° /+125°	5° /+125°	
	J3	±250mm	±250mm	±240mm	±180°	0-150mm	0-200mm	0-200mm	5° /+125°	5° /+125°	
	J4	±180°	±180°	±180°	±360°	±360°	±360°	±360°	±360°	±360°	
	J5	-	-	-	-	-	-	-	-	-	
	J6	-	-	-	-	-	-	-	-	-	
Rated speed	J1	225° /s,3.93rad/s	225° /s,3.93rad/s	108° /s,1.88rad/s	500mm/s	360° /s,6.28rad/s	225° /s,3.92rad/s	225° /s,3.92rad/s	514.2° /s,8.97rad/s	545.4° /s,9.51rad/s	
	J2	225° /s,3.93rad/s	225° /s,3.93rad/s	148.76° /s,2.60rad/s	225° /s,3.925rad/s	470° /s,8.19rad/s	360° /s,6.28rad/s	420° /s,7.32rad/s	514.2° /s,8.97rad/s	545.4° /s,9.51rad/s	
	J3	500mm/s	500mm/s	500mm/s	225° /s,3.925rad/s	710mm/s	666mm/s	666mm/s	514.2° /s,8.97rad/s	545.4° /s,9.51rad/s	
	J4	180° /s,3.14rad/s	180° /s,3.14rad/s	225° /s,3.93rad/s	360° /s,6.28rad/s	1500° /s,26.16rad/s	1200° /s,20.93rad/s	1400° /s,24.42rad/s	3600° /s,62.82rad/s	3600° /s,62.82rad/s	
	J5	-	-	-	-	-	-	-	-	-	
	J6	-	-	-	-	-	-	-	-	-	
Maximum speed	J1	300° /s,5.23rad/s	300° /s,5.23rad/s	216° /s,3.77rad/s	1000mm/s	530° /s,9.24rad/s	375° /s,6.54rad/s	335° /s,5.84rad/s	1028.5° /s,17.95rad/s	909° /s,15.86rad/s	
	J2	375° /s,6.54rad/s	375° /s,6.54rad/s	198° /s,3.54rad/s	375° /s,6.54rad/s	700° /s,12.21rad/s	600° /s,10.46rad/s	600° /s,10.46rad/s	1028.5° /s,17.95rad/s	909° /s,15.86rad/s	
	J3	830mm/s	830mm/s	667mm/s	375° /s,6.54rad/s	1065mm/s	1111mm/s	1111mm/s	1028.5° /s,17.95rad/s	909° /s,15.86rad/s	
	J4	360° /s,6.28rad/s	360° /s,6.28rad/s	375° /s,6.54rad/s	588° /s,10.26rad/s	2600° /s,43.35rad/s	2000° /s,34.88rad/s	2000° /s,34.88rad/s	7200° /s,125.6rad/s	6000° /s,104.7rad/s	
	J5	-	-	-	-	-	-	-	-	-	
	J6	-	-	-	-	-	-	-	-	-	
Allowable moment of inertia	J6	-	-	-	-	-	-	-	-	-	
	J5	-	-	-	-	-	-	-	-	-	
	J4	2kgm ²	3kgm ²	6.5kgm ²	0.0283kgm ²	0.05 / 0.005kgm ²	0.12 / 0.01kgm ²	0.12 / 0.01kgm ²	-	-	
Allowable torque	J6	-	-	-	-	-	-	-	-	-	
	J5	-	-	-	-	-	-	-	-	-	
	J4	40Nm	50Nm	90Nm	6.4Nm	3.29Nm	4.23Nm	4.23Nm	-	-	
Applicable environment	temperature	0° C-45° C	0° C-45° C	0° C-45° C	0° C-45° C	0° C-45° C	0° C-45° C	0° C-45° C	0° C-45° C	0° C-45° C	
	humidity	20%~80%	20%~80%	20%~80%	30%~95%	20%~80%	20%~80%	20%~80%	20%~85%	20%~85%	
Teacher cable length		8M	8M	8M	Optional (if required, the teach pendant cable length is 8 meters)	Optional (if required, the teach pendant cable length is 8 meters)	Optional (if required, the teach pendant cable length is 8 meters)	Optional (if required, the teach pendant cable length is 8 meters)	No teaching device	No teaching device	
Body-cabinet connection line length		6M	6M	6M	3M	3M	3M	3M	5M	5M	
I/O parameters		Digital quantity:32 input,31 output			Digital quantity:32 input,31 output			Digital quantity:32 input,31 output		Digital quantity:24 input,24 output	
Battery capacity		2.3kVA	2.8kVA	5.6kVA	0.8kVA	0.6kVA	0.8kVA	0.8kVA	-	-	
Rated power / voltage / current		1.8kW / 380V / 3.2A	2.2kW / 380V / 4A	4.5kW / 380V / 8.1A	0.6kW / 220V / 3.2A	0.5kW / 220V / 2.7A	0.6kW / 220V / 3.2A	0.6kW / 220V / 3.2A	1.8kW / 3PhaseAC380V / 3.3A	3kW / 3PhaseAC380V / 5.4A	
Protection level		IP54	IP54	IP54	IP65	IP54	IP54	IP54	IP54	IP54	
Installation method		Ground mounts	Ground mounts	Ground mounts	Ground/Desktop	Ground/Desktop	Ground/Desktop	Ground/Desktop	Desktop	Upside down	
Body weight		230kg	250kg	280kg	24kg	15kg	21kg	22kg	85kg	110kg	

HSR-BR

Birotation robot series

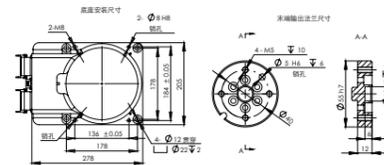
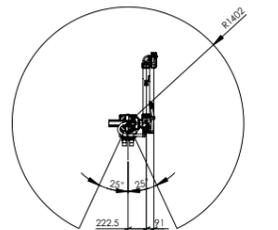
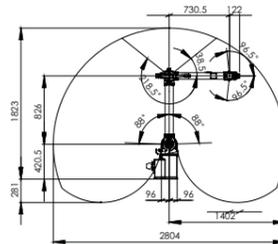
Introduction

HSR-BR series robots break the traditional sports mode and use the unique innovative design of the world. On the basis of the universal six-axis robot, the BR series robots have the internal rotation function, which makes it easy to achieve a small spacing such as the drill center. It also requires robots with robotic arms to complete the connection or transportation between narrow space stations. The floor space is very small and the movement does not occupy the external space.



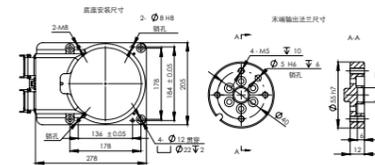
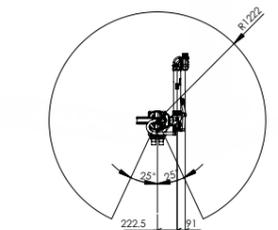
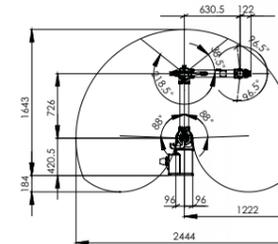
HSR-BR604

The map of ravel range



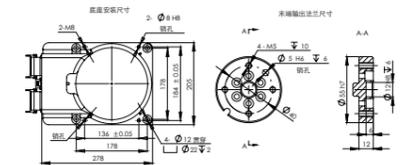
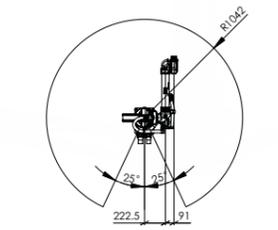
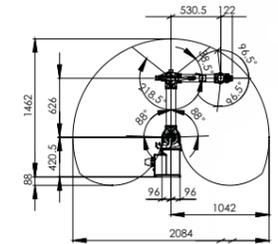
HSR-BR606

The map of ravel range



HSR-BR609

The map of ravel range



Product model	HSR-BR602	HSR-BR604	HSR-BR606	HSR-BR609	
Degree of freedom	6	6	6	6	
Payload	2kg	4kg	6kg	9kg	
Maximum moving radius	1762mm	1402mm	1222mm	1042mm	
Repeat positioning accuracy	±0.1mm	±0.06mm	±0.05mm	±0.05mm	
Range of motion	J1轴	±155°	±155°	±155°	±155°
	J2轴	-178° / -2°	-178° / -2°	-178° / -2°	-178° / -2°
	J3轴	+141.5° / +398.5°	+141.5° / +398.5°	+141.5° / +398.5°	+141.5° / +398.5°
	J4轴	±90°	±90°	±90°	±90°
	J5轴	±96.5°	±96.5°	±96.5°	±96.5°
	J6轴	±360°	±360°	±360°	±360°
Rated speed	J1轴	180° /s, 3.14rad/s	240° /s, 4.18rad/s	240° /s, 4.18rad/s	222° /s, 3.87rad/s
	J2轴	150° /s, 2.61rad/s	200° /s, 3.48rad/s	200° /s, 3.48rad/s	175° /s, 3.05rad/s
	J3轴	180° /s, 3.14rad/s	240° /s, 4.18rad/s	240° /s, 4.18rad/s	198° /s, 3.45rad/s
	J4轴	300° /s, 5.23rad/s	300° /s, 5.23rad/s	300° /s, 5.23rad/s	225° /s, 3.92rad/s
	J5轴	300° /s, 5.23rad/s	300° /s, 5.23rad/s	300° /s, 5.23rad/s	225° /s, 3.92rad/s
	J6轴	480° /s, 8.37rad/s	480° /s, 8.37rad/s	480° /s, 8.37rad/s	360° /s, 6.28rad/s
Maximum speed	J1轴	300° /s, 5.23rad/s	300° /s, 5.23rad/s	300° /s, 5.23rad/s	300° /s, 5.23rad/s
	J2轴	250° /s, 4.36rad/s	250° /s, 4.36rad/s	250° /s, 4.36rad/s	250° /s, 4.36rad/s
	J3轴	360° /s, 6.28rad/s	360° /s, 6.28rad/s	360° /s, 6.28rad/s	360° /s, 6.28rad/s
	J4轴	450° /s, 7.85rad/s	450° /s, 7.85rad/s	450° /s, 7.85rad/s	450° /s, 7.85rad/s
	J5轴	375° /s, 6.54rad/s	375° /s, 6.54rad/s	375° /s, 6.54rad/s	375° /s, 6.54rad/s
	J6轴	600° /s, 10.46rad/s	600° /s, 10.46rad/s	600° /s, 10.46rad/s	600° /s, 10.46rad/s
Allowable moment of inertia	J6轴	0.15kgm ²	0.15kgm ²	0.15kgm ²	0.15kgm ²
	J5轴	0.23kgm ²	0.23kgm ²	0.23kgm ²	0.23kgm ²
	J4轴	0.42kgm ²	0.42kgm ²	0.42kgm ²	0.42kgm ²
Allowable torque	J6轴	12.7Nm	12.7Nm	12.7Nm	12.7Nm
	J5轴	16.5Nm	16.5Nm	16.5Nm	16.5Nm
	J4轴	20.4Nm	20.4Nm	20.4Nm	20.4Nm
Applicable environment	temperature	0° C ~ 45° C			
	humidity	20% ~ 80%	20% ~ 80%	20% ~ 80%	20% ~ 80%
Teacher cable length	8M	8M	8M	8M	
Body-cabinet connection line length	3M	3M	3M	3M	
I/O parameters	Digital quantity: 32 input, 32 output				
Battery capacity	2.6kVA	2.6kVA	2.6kVA	2.6kVA	
Rated power / voltage / current	2.1kW / 220V / 11.3A	2.1kW / 220V / 11.3A	2.1kW / 220V / 11.3A	2.1kW / 220V / 11.3A	
Protection level	IP54	IP54	IP54	IP54	
Installation method	Ground/Upside down/Side mount/Install in any direction				
Body weight	56kg	52kg	50kg	48kg	

HSR-BR610

Birotation robot series



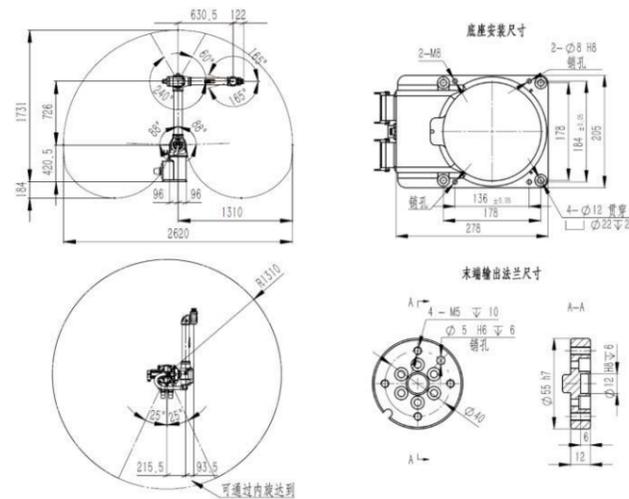
Introduction

The new generation of robots HSR-BR610, based on the BR series robots, is further optimized and upgraded, with faster speed, stronger load capacity and higher protection level.

1. Small installation area: The base of the robot is very small, and the floor space is less than 0.06m².
2. High precision, high flexibility: average repeatability of up to ± 0.03mm, maximum 0.05mm; not only has a universal 6-axis function, when there is not enough space to use the general robot usage function, you can also program the inner rotation mode to achieve another way to avoid
3. Light weight, installation in any direction: the body weight of about 60kg, can be installed in any direction.
4. The arm length is larger, the load capacity is stronger: through the lightweight design, using high-speed motor, high-precision reducer, the robot arm length is increased to 1310mm, rated load 6kg, maximum load 10kg.
5. Higher level of protection: after structural optimization, sealing design, after testing, arm front protection level reached IP67.

Product model	HSR-BR610	
Control shaft	6	
Payload	10kg	
Maximum moving radius	1310mm	
Repeat positioning accuracy	± 0.05mm	
Range of motion	J1轴	± 155°
	J2轴	-178° / -2°
	J3轴	+120° / +420°
	J4轴	± 190°
	J5轴	± 150°
	J6轴	± 360°
Rated speed	J1轴	204° / s, 3.56rad/s
	J2轴	175° / s, 3.05rad/s
	J3轴	240° / s, 4.19rad/s
	J4轴	314° / s, 5.48rad/s
	J5轴	240° / s, 4.19rad/s
	J6轴	480° / s, 8.38rad/s
Maximum speed	J1轴	240° / s, 4.19rad/s
	J2轴	250° / s, 4.36rad/s
	J3轴	300° / s, 5.23rad/s
	J4轴	392° / s, 6.84rad/s
	J5轴	300° / s, 5.23rad/s
	J6轴	600° / s, 10.46rad/s
Allowable moment of inertia	J6轴	0.15kgm ²
	J5轴	0.42kgm ²
	J4轴	0.42kgm ²
	J6轴	12.7Nm
Allowable torque	J5轴	20.4Nm
	J4轴	20.4Nm
	J6轴	20.4Nm
Applicable environment	temperature	0° C ~ 45° C
	humidity	20% ~ 80%
Other	Avoid contact with flammable, explosive or corrosive gases and liquids and away from electronic noise sources	
Protection level	IP54, The front of the arm IP67	
Installation method	Ground/Upside down/Side mount/Install in any direction	
Body weight	61kg	

The map of ravel range



HSR-BR616

Birotation robot series



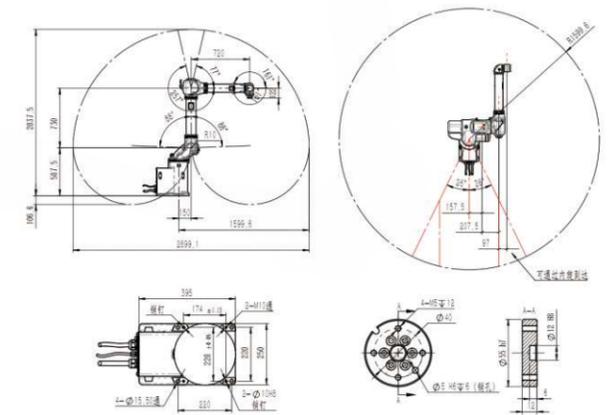
Introduction

The new generation of robots HSR-BR616, based on the BR series robots, is further optimized and upgraded, with faster speed, stronger load capacity and higher protection level.

1. Small installation area: The base of the robot is very small, and the floor space is less than 0.01m².
2. High precision, high flexibility: average repeatability of up to ± 0.04mm, maximum 0.05mm; not only has a universal 6-axis function, when there is not enough space to use the general robot usage function, you can also program the inner rotation mode to achieve another way to avoid
3. Light weight, installation in any direction: the body weight of about 128kg, can be installed in any direction.
4. The arm length is larger, the load capacity is stronger: through the lightweight design, using high-speed motor, high-precision reducer, the robot arm length is increased to 1599.6mm, rated load 16kg.
5. Higher level of protection: after structural optimization, sealing design, after testing, arm front protection level reached IP67.

Product model	HSR-BR616	
Degree of freedom	6	
Payload	16kg	
Maximum moving radius	1599.6mm	
Repeat positioning accuracy	± 0.05mm	
Range of motion	J1轴	± 154°
	J2轴	-178° / -2°
	J3轴	+103° / +437°
	J4轴	± 360°
	J5轴	± 161°
	J6轴	± 360°
Rated speed	J1轴	157° / s, 2.73rad/s
	J2轴	145° / s, 2.52rad/s
	J3轴	178° / s, 3.10rad/s
	J4轴	221° / s, 3.85rad/s
	J5轴	180° / s, 3.14rad/s
	J6轴	360° / s, 6.28rad/s
Maximum speed	J1轴	236° / s, 4.12rad/s
	J2轴	217° / s, 3.78rad/s
	J3轴	357° / s, 6.23rad/s
	J4轴	443° / s, 7.72rad/s
	J5轴	360° / s, 6.28rad/s
	J6轴	720° / s, 12.56rad/s
Allowable moment of inertia	J6轴	0.15kgm ²
	J5轴	0.85kgm ²
	J4轴	0.99kgm ²
	J6轴	12.7Nm
Allowable torque	J5轴	28.0Nm
	J4轴	34.0Nm
	J6轴	34.0Nm
Applicable environment	temperature	0° C ~ 45° C
	humidity	20% ~ 80%
Other	Avoid contact with flammable, explosive or corrosive gases and liquids and away from electronic noise sources	
Teache cable length	8M	
Body-cabinet connection line length	3M	
I/O parameters	Digital quantity: 32 input, 31 output	
Battery capacity	4.3kVA	
Rated power / voltage / current	3.2kW / 220V / 17.1A	
Protection level	IP67	
Installation method	Ground mounts	
Body weight	128kg	

The map of ravel range



HSR-BR5110

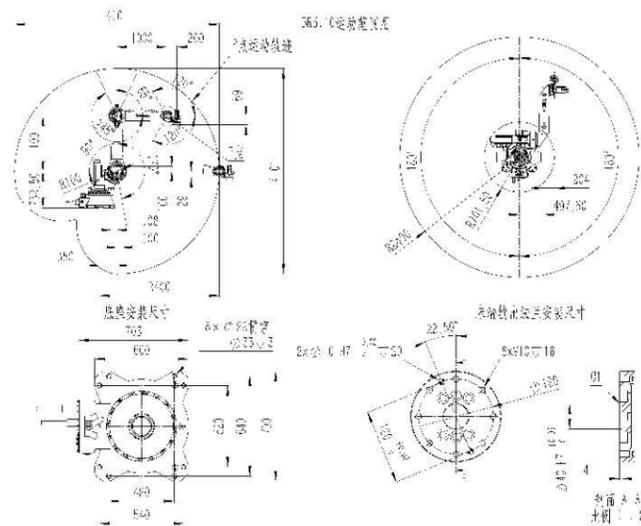
Introduction

The palletizing robot "HSR-BR5110" is developed for the needs of customers with small application sites, high cycle requirements and high cost performance requirements, which especially is suitable for high-speed handling palletizing operations where wrist joint freedom is required. As the domestic industrial robot, the maximum speed of the joint of HSR-BR5110 has reached the speed of KUKA's existing similar products (KP 120 R3200PA), which is very cost-effective and has high market competitiveness.



Product model	HSR-BR5110	
Degree of freedom	5	
Payload	110kg	
Maximum moving radius	2400mm	
Repeat positioning accuracy	±0.2mm	
Range of motion	J1轴	±180°
	J2轴	-180° / +80°
	J3轴	+20° / +330°
	J4轴	±120°
	J5轴	±360°
Rated speed	J1轴	85° / s, 1.48rad/s
	J2轴	78° / s, 1.35rad/s
	J3轴	70° / s, 1.22rad/s
	J4轴	187.5° / s, 3.27rad/s
	J5轴	225° / s, 3.93rad/s
Maximum speed	J1轴	128° / s, 2.23rad/s
	J2轴	116° / s, 2.03rad/s
	J3轴	105° / s, 1.84rad/s
	J4轴	225° / s, 3.93rad/s
	J5轴	300° / s, 5.23rad/s
Allowable moment of inertia	J5轴	11.31kgm ²
	J4轴	45.77kgm ²
Allowable torque	J5轴	327.89Nm
	J4轴	707.92Nm
Applicable environment	温度	0° C ~ 45° C
	湿度	20% ~ 80%
Teacher cable length	8M	
Body-cabinet connection line length	8M	
I/O parameters	Digital quantity: 32 input, 32 output	
Battery capacity	17kVA	
Rated power / voltage / current	14kW / 380V / 20.77A	
Protection level	IP50	
Installation method	Ground	
Body weight	980kg	

The map of ravel range



HSR-JR603

Six-axis joint robot series

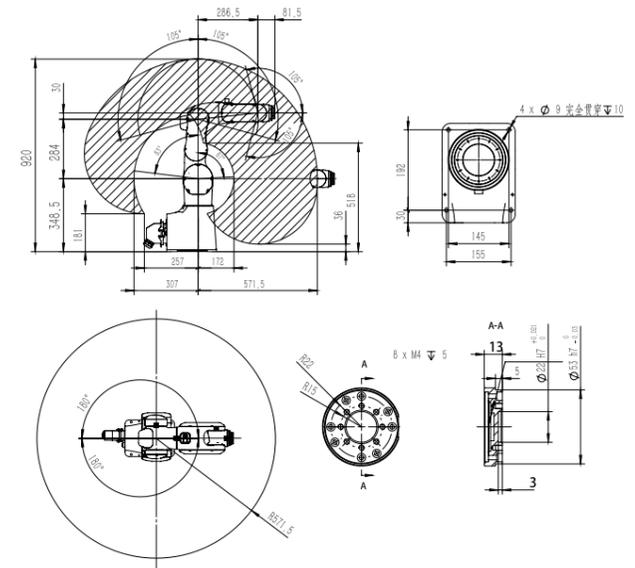
Introduction

HSR-JR603 robot is a new high-precision desktop 3C industrial robot, which is developed for the 3C market and meets the high requirements of "high precision, light weight and fast speed" of 3C production.

1. High precision: The performance of this product has reached the middle and upper level of the same level at home and abroad, and the repeat positioning accuracy reaches ±0.02mm.
2. High performance: It has the characteristics of fast dynamic response of the whole machine, and can realize smooth transition of small line segments, small round corners and small corners without jitter at high speed.
3. High speed: reasonable structure optimization, with high-performance control - servo system, can achieve high-speed operation, the maximum composite line speed reaches 2550mm / s, the standard door type takt time reaches 0.38s.
4. High cost performance: adhering to the concept of creating a national brand, the use of independent core components, compared with the same series of domestic and foreign products have a higher cost performance.
5. High flexibility: the whole machine lightweight design, small size, light weight (27Kg), high transport and installation density. Support desktop installation at any angle, upside down installation, side mount installation.
6. Strong load: Optimize the structure of the whole machine, cooperate with the self-contained high-performance servo system, have strong overload capability, and the rated speed running load capacity can be increased by 60%.

Product model	HSR-JR603	
Degree of freedom	6	
Payload	3kg	
Maximum moving radius	571.5mm	
Repeat positioning accuracy	±0.02mm	
Range of motion	J1轴	±180°
	J2轴	-160° / +10°
	J3轴	-25° / +235°
	J4轴	±180°
	J5轴	±105°
	J6轴	±360°
Rated speed	J1轴	262.5° / s, 4.58rad/s
	J2轴	262.5° / s, 4.58rad/s
	J3轴	262.5° / s, 4.58rad/s
	J4轴	262.5° / s, 4.58rad/s
	J5轴	262.5° / s, 4.58rad/s
	J6轴	420° / s, 7.33rad/s
Maximum speed	J1轴	375° / s, 6.54rad/s
	J2轴	375° / s, 6.54rad/s
	J3轴	375° / s, 6.54rad/s
	J4轴	375° / s, 6.54rad/s
	J5轴	375° / s, 6.54rad/s
	J6轴	600° / s, 10.46rad/s
Allowable moment of inertia	J6轴	0.05kgm ²
	J5轴	0.05kgm ²
	J4轴	0.05kgm ²
	J3轴	0.05kgm ²
Allowable torque	J6轴	6.4Nm
	J5轴	6.4Nm
	J4轴	12.7Nm
	J3轴	12.7Nm
Applicable environment	temperature	0° C ~ 45° C
	humidity	20% ~ 80%
Teacher cable length	8M	
Body-cabinet connection line length	3M	
I/O parameters	Digital quantity: 32 input, 31 output	
Battery capacity	0.8kVA	
Rated power / voltage / current	0.6kW / 220V / 3.2A	
Protection level	IP54	
Installation method	Ground/Up side down/Side mount/Install in any direction	
Body weight	27kg	

The map of ravel range



HSR-JR605

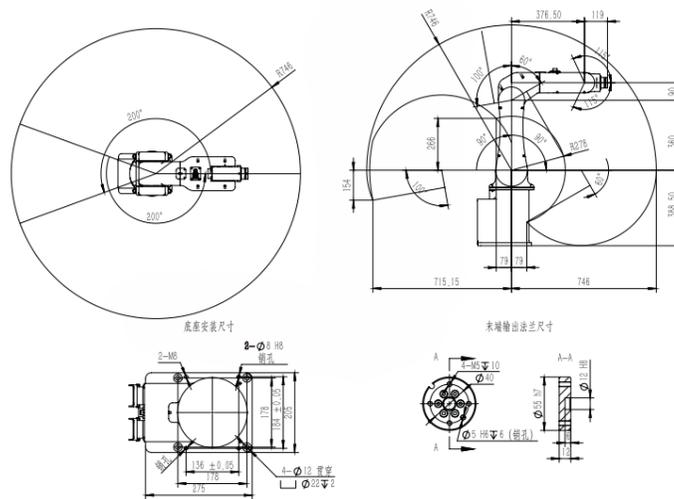
Six-axis joint robot series

Introduction

HSR-JR605 is a small multi-purpose robot with a load of 5kg, which has the advantages of low investment and high output. Meet the rapid pickup and release, with great flexibility. The structure is compact, high precision and fast response while maintaining the versatility of the six-axis robot.



The map of ravel range



Product model		HSR-JR605
Degree of freedom		6
Payload		5kg
Maximum moving radius		746mm
Repeat positioning accuracy		±0.02mm
Range of motion	J1轴	±200°
	J2轴	-180° / 0°
	J3轴	+80° / +240°
	J4轴	±180°
	J5轴	±115°
	J6轴	±360°
Rated speed	J1轴	222° / s, 3.87rad/s
	J2轴	180° / s, 3.14rad/s
	J3轴	225° / s, 3.93rad/s
	J4轴	235° / s, 4.1rad/s
	J5轴	222° / s, 3.87rad/s
	J6轴	360° / s, 6.28rad/s
Maximum speed	J1轴	370° / s, 6.45rad/s
	J2轴	300° / s, 5.23rad/s
	J3轴	375° / s, 6.54rad/s
	J4轴	391.6° / s, 6.83rad/s
	J5轴	370° / s, 6.45rad/s
	J6轴	600° / s, 10.46rad/s
Allowable moment of inertia	J6轴	0.1kgm ²
	J5轴	0.36kgm ²
	J4轴	0.5kgm ²
	J3轴	0.5kgm ²
Allowable torque	J6轴	8Nm
	J5轴	16Nm
	J4轴	18Nm
	J3轴	18Nm
Applicable environment	temperature	0° C ~ 45° C
	humidity	20% ~ 80%
Teacher cable length		8M
Body-cabinet connection line length		3M
I/O parameters		Digital quantity:32 input,31 output
Battery capacity		1.5kVA
Rated power / voltage / current		1.2kW / 220V / 6.5A
Protection level		IP54
Installation method		Ground/Upside down/Side mount/Install in any direction
Body weight		55kg

HSR-JH605

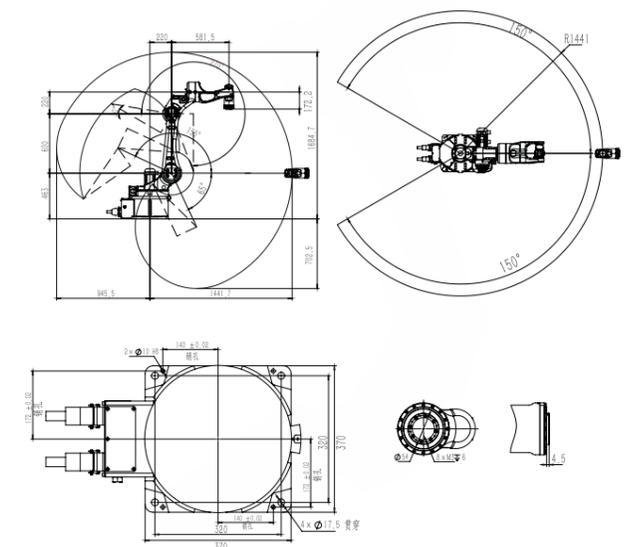
Six-axis joint robot series

Introduction

The new generation of arc welding robot HSR-JH605 is specially designed for the field of arc welding. It adopts anti-backlash gears to achieve the hollow of the arm and the end flange. It can pass the wire and welding cable from the arm, reducing the wear and tear of the cable. a series of questions.



The map of ravel range



Product model		HSR-JH605
Degree of freedom		6
Payload		5kg
Maximum moving radius		1441mm
Repeat positioning accuracy		±0.06mm
Range of motion	J1轴	±150°
	J2轴	-155° / ±65°
	J3轴	+30° / +270°
	J4轴	±180°
	J5轴	±130°
	J6轴	±360°
Rated speed	J1轴	148° / s, 2.58rad/s
	J2轴	148° / s, 2.58rad/s
	J3轴	148° / s, 2.58rad/s
	J4轴	225° / s, 3.93rad/s
	J5轴	225° / s, 3.93rad/s
	J6轴	225° / s, 3.93rad/s
Maximum speed	J1轴	197.33° / s, 3.44rad/s
	J2轴	197.33° / s, 3.44rad/s
	J3轴	197.33° / s, 3.44rad/s
	J4轴	450° / s, 7.86rad/s
	J5轴	450° / s, 7.86rad/s
	J6轴	450° / s, 7.86rad/s
Allowable moment of inertia	J6轴	0.035kgm ²
	J5轴	0.3kgm ²
	J4轴	0.3kgm ²
	J3轴	0.3kgm ²
Allowable torque	J6轴	15Nm
	J5轴	35Nm
	J4轴	35Nm
	J3轴	35Nm
Applicable environment	temperature	0° C ~ 45° C
	humidity	20% ~ 80%
Teacher cable length		8M
Body-cabinet connection line length		6M
I/O parameters		Digital quantity:32 input,31 output
Battery capacity		2.5kVA
Rated power / voltage / current		2kW / 380V / 3.6A
Protection level		IP54
Installation method		Ground/Upside down/Side mount
Body weight		196kg

HSR-JM612

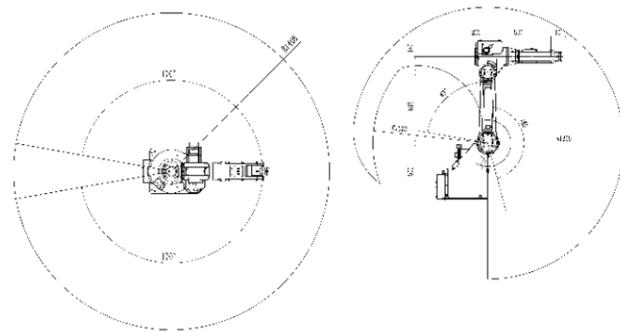
Six-axis joint robot series

Introduction

HSR-JM612 is specially designed to solve the problem that the general robot in the 3C grinding industry is difficult to adapt to the repeated impact load during the grinding process, the working environment is dusty (dry), and the humidity is high (water hit). The model is optimized for the grinding process. Bringing the perfect 3C grinding solution, the new transmission structure at the end can withstand more continuous impact loads; at the same time, the end protection of IP65 can adapt to various high dust and high humidity conditions, and can perfectly adapt to various harsh environments.



The map of ravel range



Product model		HSR-JM612
Degree of freedom		6
Payload		12kg
Maximum moving radius		1405mm
Repeat positioning accuracy		±0.06mm
Range of motion	J1轴	±170°
	J2轴	-170° / ±75°
	J3轴	+40° / +265°
	J4轴	±180°
	J5轴	±125°
	J6轴	±360°
Rated speed	J1轴	148° / s, 2.58rad/s
	J2轴	148° / s, 2.58rad/s
	J3轴	148° / s, 2.58rad/s
	J4轴	360° / s, 6.28rad/s
	J5轴	225° / s, 3.93rad/s
	J6轴	360° / s, 6.28rad/s
Maximum speed	J1轴	197.33° / s, 3.44rad/s
	J2轴	197.33° / s, 3.44rad/s
	J3轴	197.33° / s, 3.44rad/s
	J4轴	600° / s, 10.47rad/s
	J5轴	375° / s, 6.54rad/s
	J6轴	600° / s, 10.47rad/s
Allowable moment of inertia	J6轴	0.17kgm ²
	J5轴	1.2kgm ²
	J4轴	1.2kgm ²
	J3轴	1.2kgm ²
Allowable torque	J6轴	15Nm
	J5轴	35Nm
	J4轴	35Nm
	J3轴	35Nm
Applicable environment	temperature	0° C ~ 40° C
	humidity	20% ~ 80%
Teacher cable length		8M
Body-cabinet connection line length		6M
I/O parameters		Digital quantity:32 input,31 output
Battery capacity		3.8kVA
Rated power / voltage / current		3kW / 380V / 5.4A
Protection level		IP54 / IP65 (Wrist)
Installation method		Ground/Up side down/Side mount
Body weight		217kg

HSR-JR612

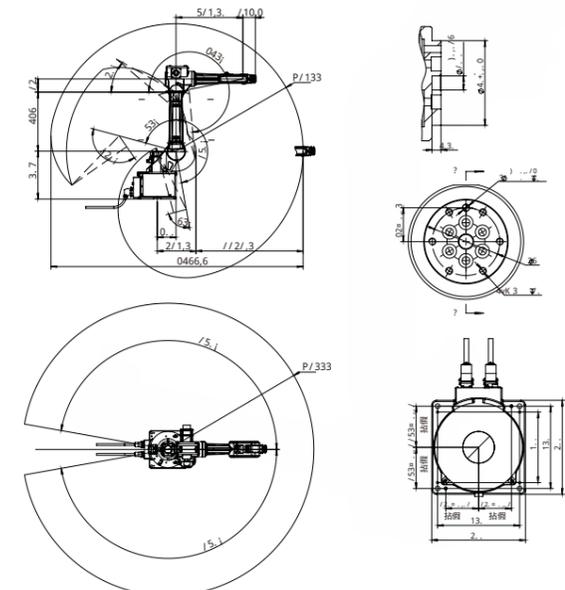
Six-axis joint robot series

Introduction

HSR-JR612 industrial robot adopts high rigidity arm, advanced servo, fast moving speed, repeat positioning accuracy of up to ±0.06mm and moving radius of 1555mm. This product is widely used in grinding, loading and unloading, material handling, arc welding and other processing applications.



The map of ravel range



Product model		HSR-JR612
Degree of freedom		6
Payload		12kg
Maximum moving radius		1555mm
Repeat positioning accuracy		±0.06mm
Range of motion	J1轴	±170°
	J2轴	-170° / +75°
	J3轴	+40° / +265°
	J4轴	±180°
	J5轴	±108°
	J6轴	±360°
Rated speed	J1轴	148° / s, 2.58rad/s
	J2轴	148° / s, 2.58rad/s
	J3轴	148° / s, 2.58rad/s
	J4轴	360° / s, 6.28rad/s
	J5轴	225° / s, 3.93rad/s
	J6轴	360° / s, 6.28rad/s
Maximum speed	J1轴	197.33° / s, 3.44rad/s
	J2轴	197.33° / s, 3.44rad/s
	J3轴	197.33° / s, 3.44rad/s
	J4轴	600° / s, 10.47rad/s
	J5轴	375° / s, 6.54rad/s
	J6轴	600° / s, 10.47rad/s
Allowable moment of inertia	J6轴	0.17kgm ²
	J5轴	1.2kgm ²
	J4轴	1.2kgm ²
	J3轴	1.2kgm ²
Allowable torque	J6轴	15Nm
	J5轴	35Nm
	J4轴	35Nm
	J3轴	35Nm
Applicable environment	temperature	0° C ~ 45° C
	humidity	20% ~ 80%
Teacher cable length		8M
Body-cabinet connection line length		6M
I/O parameters		Digital quantity:32 input,31 output
Battery capacity		3.8kVA
Rated power / voltage / current		3kW / 380V / 5.4A
Protection level		IP54 / IP65 (Wrist)
Installation method		Ground/Up side down/Side mount
Body weight		196kg

HSR-JR650L / JR680

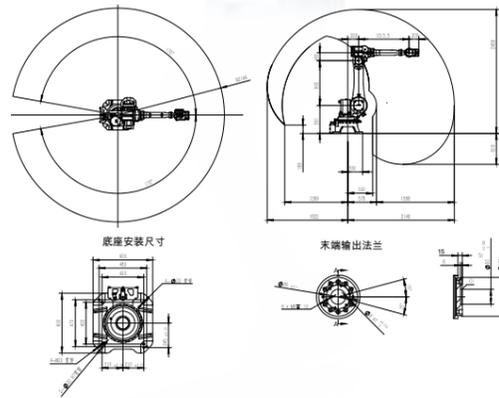
Six-axis joint robot series

Introduction

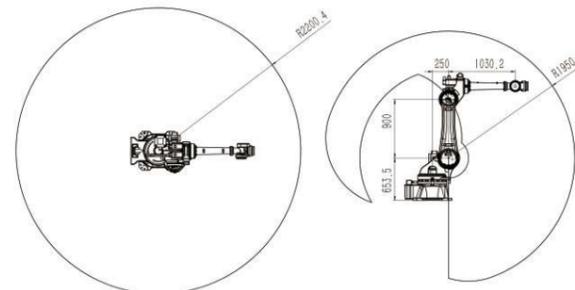
The HSR-JR650L/JR680 parameters are benchmarked to the same type of robots at home and abroad, and have reached advanced levels in parameter performance. At the same time, the design requirements are fully considered for the handling requirements of handling, welding and machining, which are suitable for more severe working conditions and can be used for many Strong support for applications.



HSR-JR650L The map of ravel range



HSR-JR680 The map of ravel range



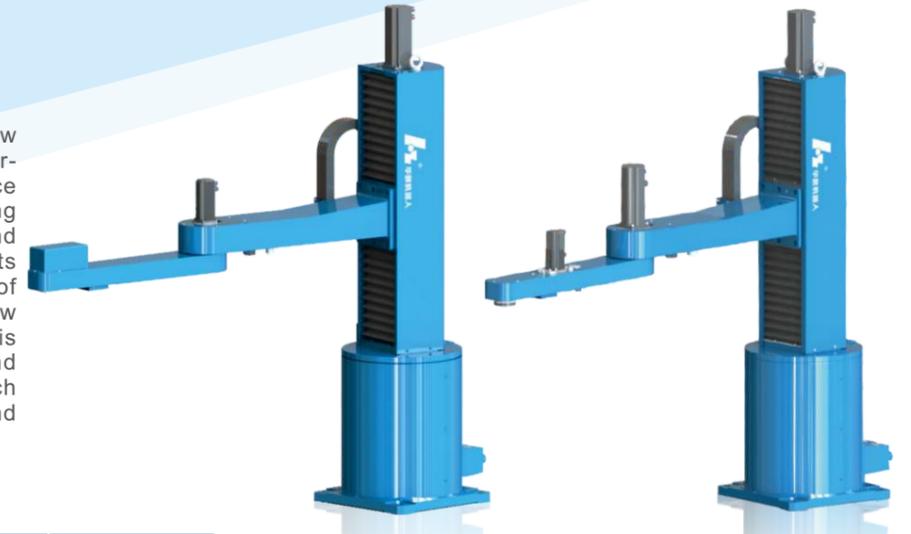
Product model	HSR-JR650L	HSR-JR680
Degree of freedom	6	6
Payload	50kg	80kg
Maximum moving radius	2400mm	2200.4mm
Repeat positioning accuracy	±0.08mm	±0.07mm
Range of motion	J1轴	±180°
	J2轴	-160° / 70°
	J3轴	+10° / 265°
	J4轴	±360°
	J5轴	±110°
	J6轴	±360°
Rated speed	J1轴	85° /s, 1.48rad/s
	J2轴	85° /s, 1.48rad/s
	J3轴	104° /s, 1.81rad/s
	J4轴	177° /s, 3.08rad/s
	J5轴	155° /s, 2.7rad/s
	J6轴	187° /s, 3.26rad/s
Maximum speed	J1轴	127.5° /s, 2.22rad/s
	J2轴	127.5° /s, 2.22rad/s
	J3轴	104° /s, 1.81rad/s
	J4轴	177° /s, 3.08rad/s
	J5轴	155° /s, 2.7rad/s
	J6轴	187° /s, 3.26rad/s
Allowable moment of inertia	J6轴	25kgm ²
	J5轴	32.7kgm ²
	J4轴	32.7kgm ²
	J3轴	330Nm
Allowable torque	J6轴	330Nm
	J5轴	340Nm
	J4轴	400Nm
	J3轴	400Nm
Applicable environment	temperature	0° C - 45° C
	humidity	20% - 80%
Teacher cable length	8M	8M
Body-cabinet connection line length	8M	8M
I/O parameters	Digital quantity:32 input,31 output	
Battery capacity	7.5kVA	7.5kVA
Rated power / voltage / current	6kW / 380V / 10.8A	6kW / 380V / 10.8A
Protection level	ip54 / IP65(Wrist)	ip54 / IP65(Wrist)
Installation method	Ground	
Body weight	720kg	720kg

HSR-HC410 / HC415

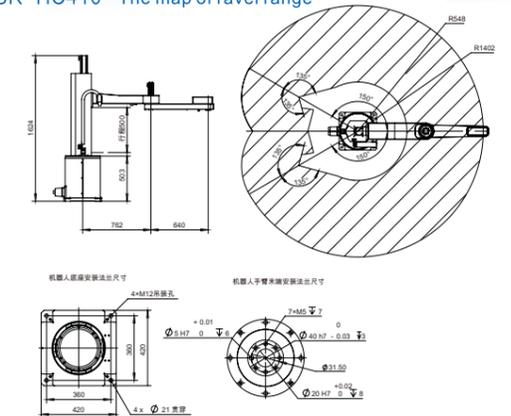
Four-axis joint robot series

Introduction

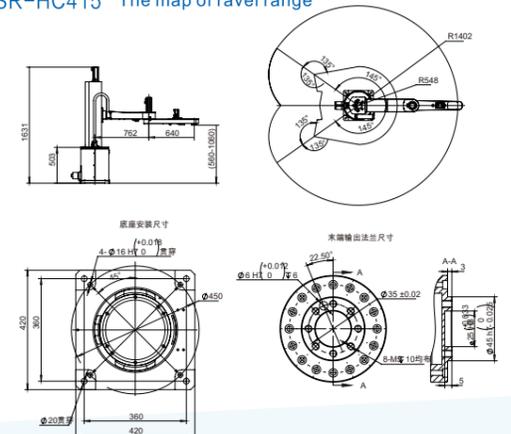
HSR-HC410/HC415 is a new generation of high-rigidity four-axis robots. It is the best choice for the stamping and handling industry to achieve low cost and high performance in its class. Its load is up to 15kg, the range of motion is 1402mm, and the new generation of teaching device is equipped with its simple and modular operation mode, which makes the operation simple and convenient.



HSR-HC410 The map of ravel range



HSR-HC415 The map of ravel range



Product model	HSR-HC410	HSR-HC415
Degree of freedom	4	4
Payload	10kg	15kg
Maximum moving radius	1402mm	1402mm
Repeat positioning accuracy	±0.05mm	±0.05mm
Range of motion	J1轴	±145°
	J2轴	±135°
	J3轴	±250mm
	J4轴	±180°
	J5轴	-
	J6轴	-
Rated speed	J1轴	225° /s, 3.93rad/s
	J2轴	225° /s, 3.93rad/s
	J3轴	500mm/s
	J4轴	180° /s, 3.14rad/s
	J5轴	-
	J6轴	-
Maximum speed	J1轴	300° /s, 5.23rad/s
	J2轴	375° /s, 6.54rad/s
	J3轴	830mm/s
	J4轴	360° /s, 6.28rad/s
	J5轴	-
	J6轴	-
Allowable moment of inertia	J6轴	-
	J5轴	-
	J4轴	2kgm ²
	J3轴	3kgm ²
Allowable torque	J6轴	-
	J5轴	-
	J4轴	40Nm
	J3轴	50Nm
Applicable environment	temperature	0° C - 45° C
	humidity	20% - 80%
Teacher cable length	8M	8M
Body-cabinet connection line length	6M	6M
I/O parameters	Digital quantity:32 input,31 output	
Battery capacity	2.3kVA	2.8kVA
Rated power / voltage / current	1.8kW / 380V / 3.2A	2.2kW / 380V / 4A
Protection level	IP54	IP54
Installation method	Ground	
Body weight	230kg	250kg

HSR-SR5700

Four-axis parallel joint robot series

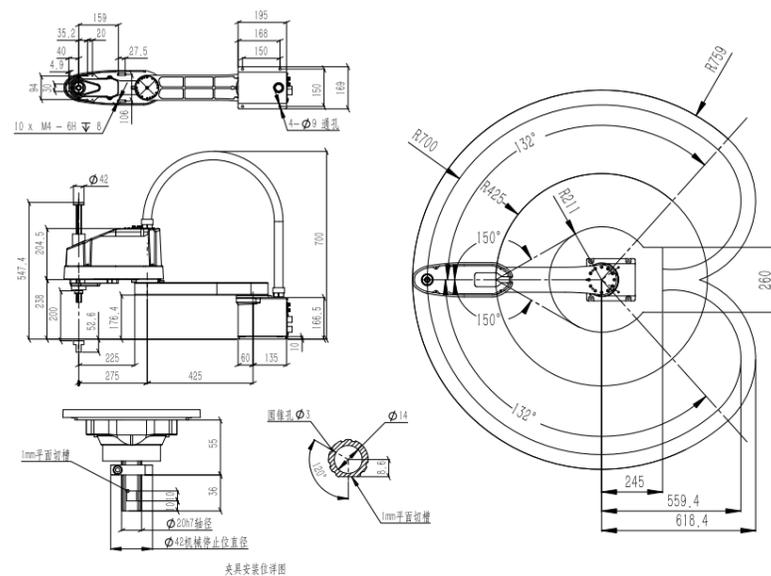
Introduction

The HSR-SR5700 has a wide coverage, high precision, high performance, and a variety of load positions. The load capacity covers 1kg-5kg. It can meet the needs of customization and is widely used in the electronics industry, pharmaceutical industry and food industry.



Product model	HSR-SR5700	
Degree of freedom	4	
Payload	5kg / 2kg	
Maximum moving radius	700mm	
Repeat positioning accuracy	±0.02mm	
Range of motion	J1轴	±132°
	J2轴	±150°
	J3轴	0-200mm
	J4轴	±360°
	J5轴	-
	J6轴	-
Rated speed	J1轴	225° /s, 3.92rad/s
	J2轴	420° /s, 7.32rad/s
	J3轴	666mm/s
	J4轴	1400° /s, 24.42rad/s
	J5轴	-
	J6轴	-
Maximum speed	J1轴	335° /s, 5.84rad/s
	J2轴	600° /s, 10.46rad/s
	J3轴	1111mm/s
	J4轴	2000° /s, 34.88rad/s
	J5轴	-
	J6轴	-
Allowable moment of inertia	J6轴	-
	J5轴	-
	J4轴	0.12kgm ² / 0.01kgm ²
	J3轴	-
Allowable torque	J6轴	-
	J5轴	-
	J4轴	4.23Nm
	J3轴	-
Applicable environment	temperature	0° C - 45° C
	humidity	20% - 80%
Teacher cable length	Optional (8 meters in length of the instructor cable if optional is required)	
Body-cabinet connection line length	3米	
I/O parameters	Digital quantity: 32 input, 31 output	
Battery capacity	0.8kVA	
Rated power / voltage / current	0.8kW / 220V / 3.2A	
Protection level	IP54	
Installation method	Ground/Desktop installation	
Body weight	22kg	

The map of ravel range



夹具安装位详图

HSR-DT401E / DT801B

Four-axis parallel joint robot series

Introduction

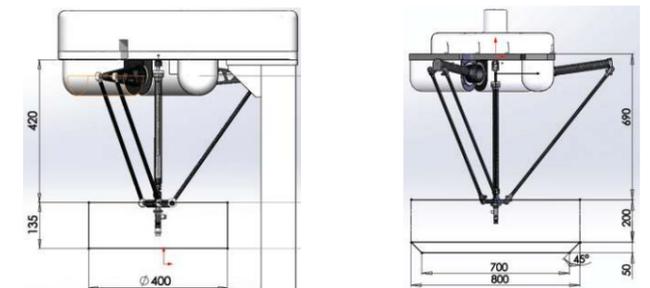
HSR-DT series is suitable for fast sorting or packing of various industries, especially small food, medicine, hardware and other industries. It integrates intelligent visual recognition function, which can identify and accurately locate the shape, features and posture of the target. Dynamic tracking capabilities. Repeat positioning accuracy is up to 0.1mm. A load of 1kg is sufficient for most products that require fast sorting.



HSR-DT401E

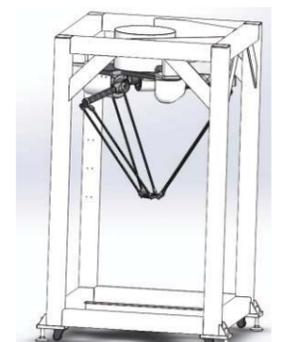
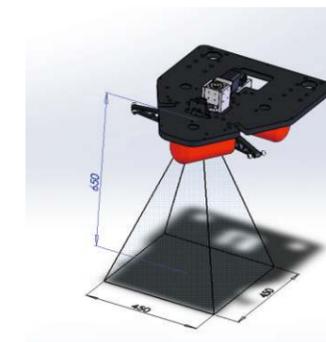
HSR-DT801B

The map of ravel range



HSR-DT401E
Built-in visual range

HSR-DT801B Agency diagram



Product model	HSR-DT401E	HSR-DT801B	
Degree of freedom	4	4	
Payload	1kg	1kg	
Maximum moving radius	200mm	400mm	
Repeat positioning accuracy	±0.1mm	±0.1mm	
Range of motion	J1轴	5° /+125°	5° /+125°
	J2轴	5° /+125°	5° /+125°
	J3轴	5° /+125°	5° /+125°
	J4轴	±360°	±360°
Rated speed	J1轴	514.2° /s, 8.97rad/s	545.4° /s, 9.51rad/s
	J2轴	514.2° /s, 8.97rad/s	545.4° /s, 9.51rad/s
	J3轴	514.2° /s, 8.97rad/s	545.4° /s, 9.51rad/s
	J4轴	3600° /s, 62.82rad/s	3600° /s, 62.82rad/s
Maximum speed	J1轴	1028.5° /s, 17.95rad/s	909° /s, 15.86rad/s
	J2轴	1028.5° /s, 17.95rad/s	909° /s, 15.86rad/s
	J3轴	1028.5° /s, 17.95rad/s	909° /s, 15.86rad/s
	J4轴	7200° /s, 125.6rad/s	6000° /s, 104.7rad/s
Applicable environment	temperature	0° C - 45° C	0° C - 45° C
	humidity	20% - 85%	20% - 85%
Teacher cable length	No teaching device		
Body-cabinet connection line length	5M	5M	
I/O parameters	Digital quantity: 24 input, 24 output		
Rated power / voltage / current	1.8kW / 3PhaseAC380V / 3.3A	3kW / 3PhaseAC380V / 5.4A	
Protection level	IP53	IP53	
Installation method	Desktop installation	Inverted installation	
Body weight	85kg	110kg	
Control cabinet protection level	IP54	IP54	
Control cabinet size	500 (Wide) × 330 (Thick) × 640 (High)	560 (Wide) × 270 (Thick) × 730 (High)	
Weight of the control cabinet	30kg	45kg	

