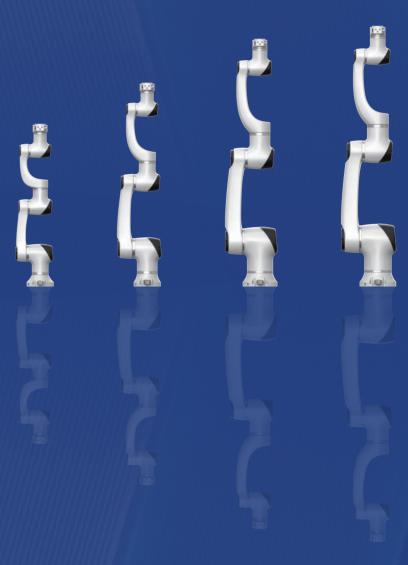
UK & Ireland Official Distributor







International service hotline

400-852-9898

Shenzhen Han's Robot Co., Ltd.

Headquarters address: 6/F, Building 3, Han's Laser Global Intelligent Manufacturing Industry Base, Bao'an District, Shenzhen

cobot@hanslaser.com

UK & Ireland Official Distributor:

Motion Control Products Ltd

11-15 Francis Avenue, Bournemouth Dorset, UK, BH11 8NX Tel.: +44 (0)1202 599922 enquiries@motioncontrolproducts.com www.motioncontrolproducts.com

Shenzhen Han's Robot Co., Ltd. www.hansrobot.net

Catalogue

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Company Profile





To be the global leader in the era of intelligent robots

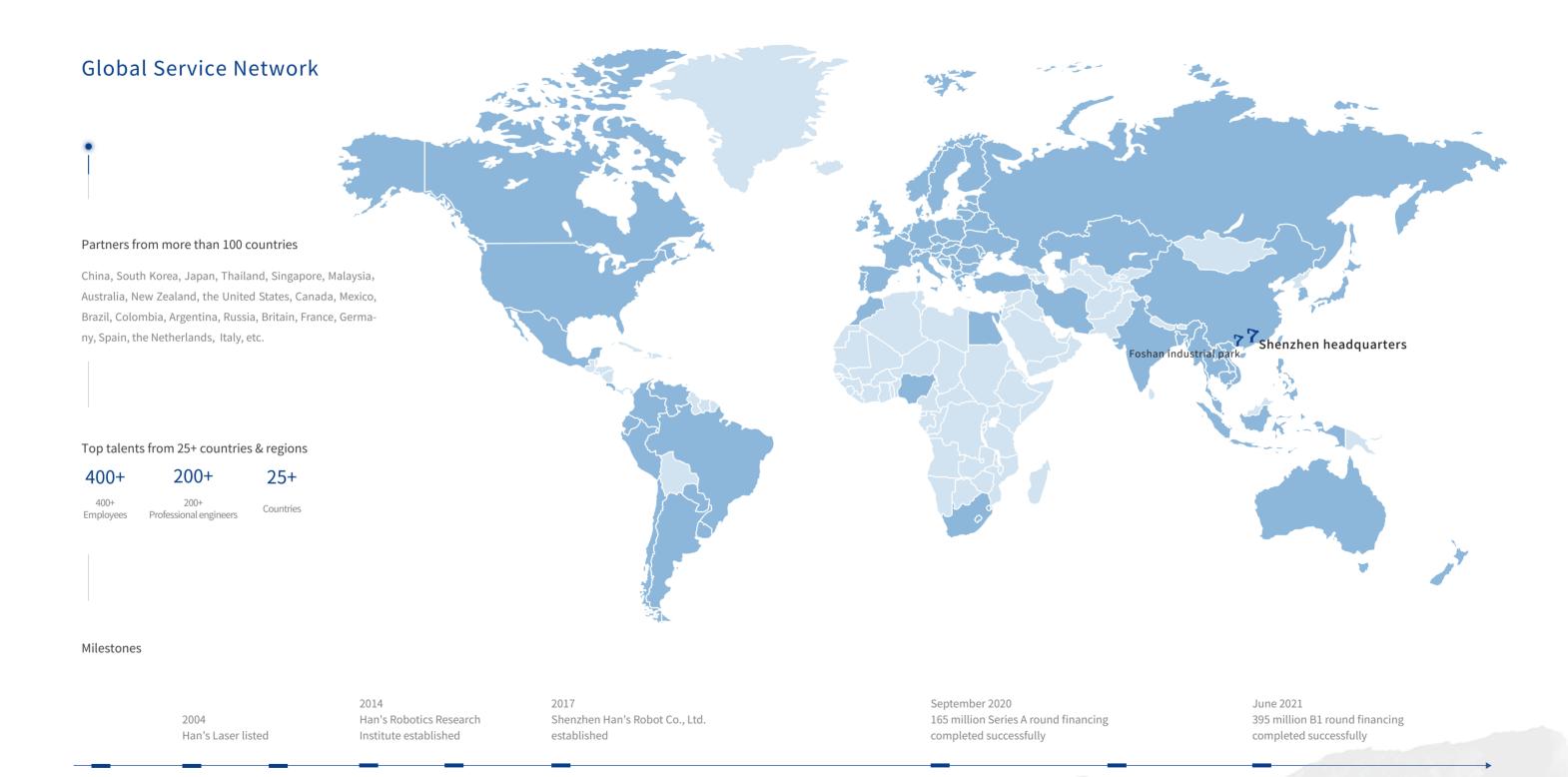


Serve humanity with robot technology



Lead, fast-speed, service, sharing, passion, enthusiasm, curiosity

Shenzhen Han's Robot Co., Ltd., invested and established by Han's Laser Technology Group (stock name: Han's Laser, stock code: 002008), is a high-tech enterprise established on the basis of the Robot Division from Han's Motor. It was founded in August, 2017 with its headquarter and production base located in Han's Laser global intelligent manufacturing base, Bao'an District, Shenzhen. Han's Robot is dedicated to the development, promotion and application of intelligent robots in industry, healthcare, logistics, services and so on, becoming the global leader in the era of intelligent robots.



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Han's Motor established

First-generation collaborative

robot ELFIN released

2005

1996

Han's Laser established

enquiries@motioncontrolproducts.com

www.motioncontrolproducts.com

November 2020

Han's Robot Advanced Manufacturing

Demonstration Park launched in Foshan

•

Han's Robot

Product Advantages



Han's Robot has been constantly exploring the breadth and depth for serving human by its self-developed leading collaborative robot technologies. The payload of the robots vary from 3kg to 18kg which can meet the requirements of various customers. Moreover, Han's Robot has developed products from the first generation 6-axis collaborative robots Elfin robot to the second-generation Elfin-P robot with higher performance.



Strong anti-interference ability	0
High communication frequency and fast speed	0
High safety, accurate motion trajectory	0
Accessible data for all joints	0



High motion efficiency	\otimes
More possible positions of high difficulty	0
Most flexible collaborative robot	0
Low power consumption	Ø



Self-developed dual-joint modules	⊘
Unique arm design, optimized singularity poin	ts 🕢
Higher integration	0
Higher flexibility	0



Completely self-developed core components from Han's Group	⊘
Complete set of motors, servo drive	0
Grating encoder, 6-dimensional force/ torque sensor	0
Electromagnetic brake, high-speed inverter	Ø

Advantages



Innovative brake method

The robot will automatically rebound and then stop when encounter any resistance.

Output force and power controlled within the safety range to ensure personnel safety.

Innovative brake design. The robot will be locked immediately in case of a sudden power failure or emergency stop during operation. It will not slide, fall or move at all



More than 16 years of industrial experience

Incubated from the Robotics Research Institute team of Han's Motor

0

More than 16 years experience in motors, servo drives and motion control \odot

Long-term cooperation with famous universities at home and abroad

Dedicated to collaborative robot

technologies and applications

Ø



IP66 protection rating

Higher waterproof and dust-proof protection 🕢

Suitable for harsher environments

And can avoid external objects and dust

Applicable to more working conditions



More open platform

Open source ROS interface, which allows users to control the robot joints in real time through EtherCAT under the ROS environment

ROS platform, which greatly improves the robot's scalability. The robot can be controlled without an additional control box

Used for ROS teaching in colleges and universities

0



ISO class 5 cleanroom

The surface cleanliness of the whole robot is excellent due to the excellent waterproof and dust-proof performance

0

 \odot

0

Optimized structure of internal parts, low mutual friction, avoiding damage

0

Excellent sealing of the whole robot, without impurities intrusion

0

 \odot

Automotive and aerospace industry standards, ensuring high quality

Graphical control

Graphical software design, intuitive, easy to understand, easy to operate

User-friendly interface logic design, easy to use 🕢

The software controls the robot with instant reactions, without delay, out of control and other symptoms

Remote control via touchscreen, excellent human-machine experience

0

Han's Robot

Plug & Play Tools



Adhering to the ecological concept of "all are friends in the world", Han's Robot has created a more complete and open collaborative ecosystem, and designed various IO and communication interfaces. These IO interfaces greatly expand the application scope of the robot and can support "plug and play" with most accessories in the industrial ecosystem, such as grippers, vision, and sensors, which can meet the needs of multiple scenarios such as loading and unloading, assembly, testing, handling, screw driving, grinding, spraying etc.

Grippers



Robotiq



SMC





Onrobot

DH-Robotics



Schunk



SRT



RobustMotion

enquiries@motioncontrolproducts.com



HIWIN

Force Sensor



Link-touch





Onrobot





Robotiq



Hypersen

Vision



Micromatch



Basler



Cosmosvision



Mech-Mind



Cognex



Seizet



Keyence



Hikvision



UBSense

Scan code to join us

Han's Robot Partner Ecosystem



To build an open, shared and win -win industrial ecosystem!

"POSS" Concept

The smartest body, the smartest brain:

Han's Robot believes that the characteristics of a good collaborative robot can be summarized as POSS. We are dedicated to the research and application expression of cutting-edge robotics technology, and the development of robots with the smartest body and the smartest brain.











More **S**mart



More **S**afe

Overview

















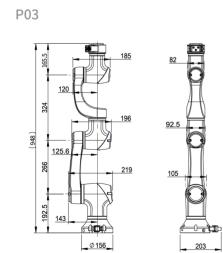


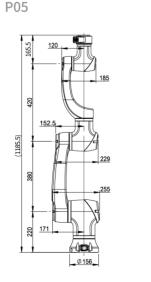


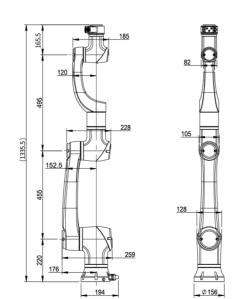
Model	E03	E05	E05-L	E10	E10-L	E15	P03	P05	P05-L	P10	P10-L
Weight	18kg	25kg	26kg	43kg	45kg	60kg	19kg	26kg	27kg	45kg	48kg
Payload	3kg	5kg	3.5kg	10kg	8kg	15kg	3kg	5kg	3.5kg	10kg	8kg
Reach	590mm	800mm	950mm	1000mm	1300mm	1300mm	590mm	800mm	950mm	1000mm	1300mm
Power consumption	100W typical application	180W typical application	180W typical application	350W typical application	350W typical application	600W typical application	100W typical application	180W typical application	180W typical application	350W typical application	350W typical application
Joint range				±360°					±360°		
Joint speed	J1-J4 180°/s J5-J6 200°/s	J1-J4 180°/s J5-J6 200°/s	J1-J4 180°/s J5-J6 200°/s	J1-J2 100°/s J3-J4 150°/s J5-J6 180°/s	J1-J2 100°/s J3-J4 150°/s J5-J6 180°/s	J1-J2 80°/s J3-J4 120°/s J5-J6 150°/s	J1-J4 180°/s J5-J6 200°/s	J1-J4 180°/s J5-J6 200°/s	J1-J4 180°/s J5-J6 200°/s	J1-J2 120°/s J3-J4 135°/s J5-J6 180°/s	J1-J2 100°/s J3-J4 135°/s J5-J6 180°/s
Tool speed				2m/s					2m/s		
Repeatability	±0.03mm	±0.03mm	±0.03mm	±0.05mm	±0.05mm	±0.1mm	±0.02mm	±0.03mm	±0.03mm	±0.05mm	±0.05mm
Degrees of freedom				6					6		
Control box size			536*	145*319mm					536*445*319mm		
End I/O port Digital input: 3, digital output: 3, analog input: 2					Digital input: 3, digital output: 3, analog input: 2						
Control box I/O port	ontrol box I/O port Digital input: 16, digital output: 16, analog input: 2, analog output: 2						Digital input: 16, d	ligital output: 16, analog input:	2, analog output: 2		
I/O source				24V 2A					24V 2A		
Communication			TCP/IF	and Modbus					TCP/IP and Modbus		
Programming			Graphical program	ming, remote call interfa	асе			Graphic	cal programming, remote call i	nterface	
IP rating				IP54					IP66		
Collaborative operation 10 advanced security configuration functions		ons	10 advanced security configuration functions								
Main material Aluminum alloy			Aluminum alloy								
Working temperature				0-50°C					0-50°C		
Powerinput			200-240	OV AC, 50-60Hz					200-240V AC, 50-60Hz		
Cable to the control box: 5 m, cable to the teach pendant: 5 m						Cable to the cont	trol cabinet: 5 m, cable to the te	each pendant: 5 m			

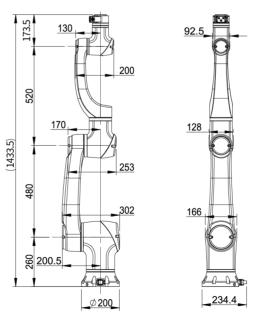
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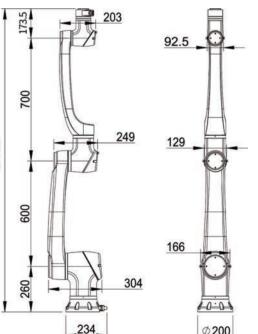
E10-L E15 E10 E05-L E05 E03 272.4 234.4 P10-L P10 P05-L P05





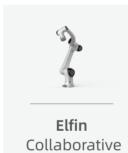








Han's Robot Product Details →



Robot









Han's Robot Products/First-Generation 6-Axis Collaborative Robot

Elfin Collaborative Robot

Overview

The Elfin 6-axis collaborative robot can be used in automated integrated production lines, assembly, picking, welding, grinding, spraing and other applications, and have been exported to more than 100 countries and regions. It adopts a unique double-joint module design, where one motion module contains two joints to form a unique kinematic structure, which not only differs from most collaborative robots in the market, but also provides more flexibility when working.





Industries

- Electronics
- Automotive
- Metal processing
- Semiconductor
- Education and research

Why Elfin

Optimized Singularity

The unique arm design not only avoids the product homogeneity, but also reduces the singularity.



First dual-joint module design in China

The unique kinematic design enables the robot to have high flexibility. The highly integrated modular design minimizes the arm weight.



Highly Flexibility 6-DOF collaborative robot

The collaborative robot with 4/6-axis coaxial structure has almost reached the flexibility of 7-DOF robots



Modularity

enquiries@motioncontrolproducts.com

All-in-one module of fully self-developed reducer, motor, encoder, drive and software



Applications

- Loading and unloading
- Assembly
- Picking

J6

J5

J4

J3

J2

J1

- Welding
- Palletizing
- Glue dispensing
- Inspecting



Joint motions:

Technical Specifications

Model	E03	E05	E05-L	E10	E10-L	E15
Model			LVJ-L		LIV-L	LIJ
Weight	18kg	25kg	26kg	43kg	45kg	60kg
Payload	3kg	5kg	3.5kg	10kg	8kg	15kg
Reach	590mm	800mm	950mm	1000mm	1300mm	1300mm
Power consumption	100W typical application	180W typical application	180W typical application	350W typical application	350W typical application	600W typical application
Joint range			±3	60°		
Joint speed	J1-J4 180°/s J5-J6 200°/s	J1-J4 180°/s J5-J6 200°/s	J1-J4 180°/s J5-J6 200°/s	J1-J2 100°/s J3-J4 150°/s J5-J6 180°/s	J1-J2 100°/s J3-J4 150°/s J5-J6 180°/s	J1-J2 80°/s J3-J4 120°/s J5-J6 150°/s
Tool speed			2m	n/s		
Repeatability	±0.03mm	±0.03mm	±0.03mm	±0.05mm	±0.05mm	±0.1mm
Degree of freedom			(Ô		
End I/O port		Digit	al input: 3, digital o	utput: 3, analog inp	out: 2	
Control box I/O port		Digital input: 1	6, digital output: 16	, analog input: 2, a	nalog output: 2	
I/O Source			24\	/2A		
Communication			TCP/IP an	d Modbus		
Programming		Gra	phical programmin	g, remote call inter	face	
IP classification			IP.	54		
Collaborative operation	1	10 a	advanced security o	onfiguration functi	ons	
Main material			Aluminu	ım alloy		
Working temperature			0-5	0°C		
Power input			200-240V A	C, 50-60Hz		
Cable		Cable to the	e control box: 5m; c	able to the teach p	endant: 5m	

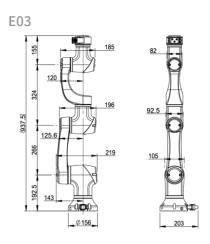


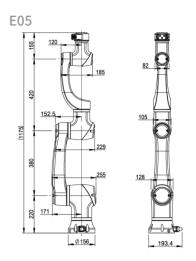
Control box	
Dimensions	445.2mm x 318.8mm x (360+176)mm
Stand height	176mm
Weight	18.5kg
Power output	48V DC
Working temperature	0~50°C
Working Humidity	90% relative humidity (non-condensing)
IP classification	IP20

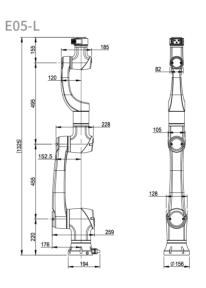


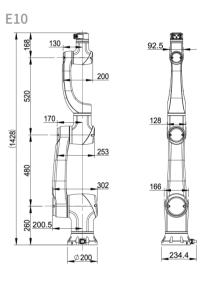
reach pendant	
Dimensions	327 mm x 230 mm x (45+22) mm
Weight	2.7kg (include cable)
Display	10.4"
Resolution	1024 x 800
E-stop button	1
IP classification	IP54

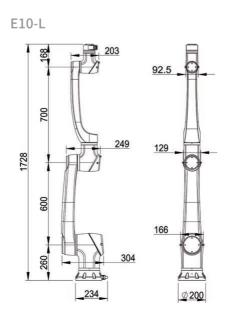
Drawing

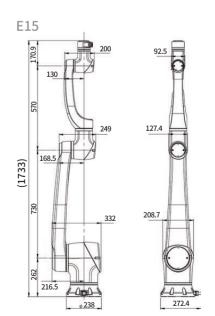












Han's Robot Products/Second-Generation 6-Axis Collaborative Robot

Elfin-P Collaborative Robot

Overview

Elfin-P is a lightweight 6-axis collaborative robot developed based on Elfin that can be used in automated integrated production lines, assembly, picking, welding, grinding, spraying, dispensing, inspecting and other applications. The high repeatability and protection rating ensures it can be used freely in complex working environments.

P03 590mm 3kg



P05

5kg

800mm

P05-L 950mm 3.5kg



P10 1000mm 10kg



P10-L 1300mm 8kg





• Electronics

Automotive

Semiconductor

Metal processing

• Education and research

Applications

• Loading and unloading

Assembly

• Picking

• Welding

Palletizing

Dispensing

Inspecting

Why Elfin-P

Higher protection rating

IP66 protection rating is designed to be dust-proof and waterproof, ensuring that it can be used freely in harsh environments such as oil and moisture



Faster response

The EtherCAT communication between the controller and each joint enables real-time control of the refresh frequency of 1000Hz for industry-leading trajectory accuracy control



Stronger anti-interference ability

Stronger electromagnetic compatibility, which ensures that the robot can still operate properly in a strong electromagnetic interference environment



Joint motions:

G HAN*S ROBOT



Technical Specifications

- ype	P03	P05	P05-L	P10	P10-L		
Weight	19kg	26kg	27kg	45kg	48kg		
Payload	3kg	5kg	3.5kg	10kg	8kg		
Reach	590mm	800mm	950mm	1000mm	1300mm		
Power consumption	100W typical application	180W typical application	180W typical application	350W typical application	350W typical application		
Joint range			±360°				
Joint speed	J1-J4 180°/s J5-J6 200°/s	J1-J4 180°/s J5-J6 200°/s	J1-J4 180°/s J5-J6 200°/s	J1-J2 120°/s J3-J4 135°/s J5-J6 180°/s	J1-J2 100°/s J3-J4 135°/s J5-J6 180°/s		
Tool speed			2m/s				
Repeatability	±0.02mm	±0.03mm	±0.03mm	±0.05mm	±0.05mm		
Degree of freedom			6				
End I/O port		Digital input: 3	3, digital output: 3, a	nnalog input: 2			
Control box I/O port	Digita	Digital input: 16, digital output: 16, analog input: 2, analog output: 2					
/O source			24V 2A				
Communication			TCP/IP and Modbus				
Programming		Graphical pro	ogramming, remote	call interface			
IP classification			IP66				
Collaborative operation		10 advanced	l security configurati	ion functions			
Main material			Aluminum alloy				
Working temperature			0-50°C				
Power input	200-240V AC, 50-60Hz						
Cable	Cal	ole to the control ca	abinet: 5m; cable to	the teach pendant: 5	m		



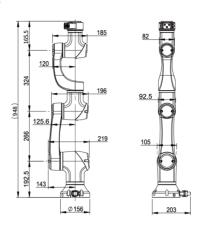
Control box	
Dimensions	445.2mm x 318.8mm x (360+176)mm
Stand height	176mm
Weight	18.5kg
Power output	48V DC
Working temperature	0~50°C
Working Humidity	90% relative humidity (non-condensing)
IP classification	IP20

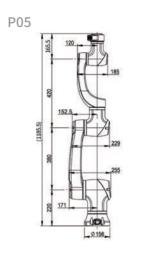


Teach pendant	
Dimensions	327 mm x 230 mm x (45+22) mm
Weight	2.7kg (include cable)
Display	10.4"
Resolution	1024 x 800
E-stop button	1
IP classification	IP54

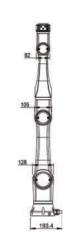
Drawing

P03

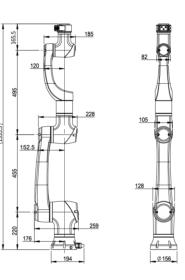


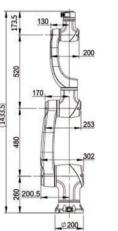


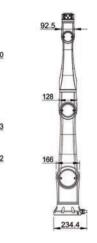
P10



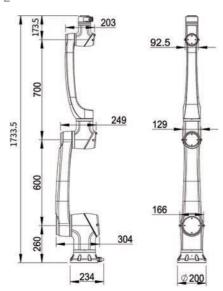
P05-L







P10-L



Han's Robot Products/Automated Guided Vehicle

FR Multi-sensing Autonomous Vehicle

Overview

FR is a new generation of multi-sensing autonomous vehicles from Han's Robot, used for indoor intralogistics tasks. It can autonomously transport items and navigate freely in its environment. As a mobile robot, it makes the labor of the workers easier and improves business efficiency. This robot is also equipped with obstacle avoidance radar, which can work continuously and safely without interruption. Moreover, it has built-in autonomous navigation system and dispatching software, which enable multiple FR to serve simultaneously, keep the production running and maintain the flexibility of its manipulation.



Dimensions

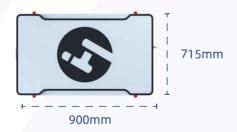
FR-200 200kg **46AH**

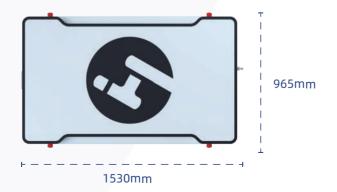












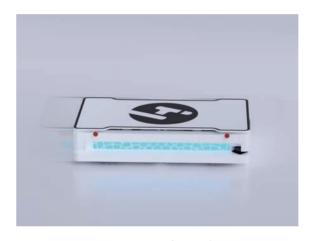
Features



Payload 200kg / 1200 kg



High speed charging and long endurance



MAX Speed 1.5 m/s



3D Visual Sensor (optional)



Artificial Intelligence

Path Optimization, Smart Interaction



Safe Human Detection

www.motioncontrolproducts.com

Touchless Sensor Technology

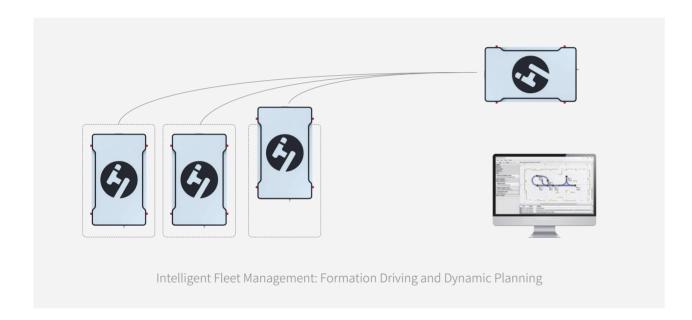


Status Visualization

LED lights can show the robot'sworking status

Expand application





Recommended Industries







Healthcare Logistics 3C Products

Tech specs

	Model	FR-200	FR-1200	
Basic parameters	Payload	200 kg	1200 kg	
	MAX Loading Current	20A	95A	
	Actuation	Differential Drive		
	MAX Velocity	1.5 m/s		
	Communication Interface	TCP/IP, Modbus		
	Outbound Interface	WiFi , 1 x RJ45		
	IP Classification	IP54		
	Weight	(100/120) kg(without / with lifting units)	(280/310) kg(without / with lifting units)	
	Dimensions	L900×W715×H230(mm)	L1530×W965×H310(mm)	
	Positioning Accuracy	±10mm		
	Safety Laser Scanner 360°	° PLd/ Category 3 (ISO 13849– 1)		
	Navigation Mode	Laser SLAM		
	Lifting Units	1x200kg , 1 x 0-60mm	4x400kg , 4 x 0-50mm	
Battery parameters	Battery Voltage	DC 48V		
	Battery Capacity	46AH	125AH	
	Charging Voltage	AC220V,50-60Hz		
	Charging Time	2hrs (Automated) / 1.5hrs (Manual) 2.5hrs (Automated) / 2hrs (Manual)		
	Running Time (no load)	15hrs	24hrs	
	Charging Mode	Automated / Manual		
Sensor	Vision (optional)	RealSense – D415 Camera		
	Safety	Touchless Safe Human Detection Safety Scanners		
Software	Operating Software	Robot application software / Dispatching software		
	Open Architecture	AGV API		
	Safety Features	Safe Human Detection, Safe Speed Control		
Programming Features	Human-Robot-Interaction	Motion tracking, PC based GUI		
	Environment Visualization	Dynamic Mapping (SLAM)		
	Fleet Management	Formation Driving, Fleet Monitoring Tool		
Others	Warranty	12 months		

Han's Robot Products/Compound Robots

STAR Compound Robot

Overview

The STAR compound robot is an intelligent mobile robot, which combines the self-developed mechanical arm and mobile robot FR, vision system, gripper and other components to perform mobile operations to achieve functional applications such as grasping, handling, assembly, and detection of materials. According to the customer's on-site use environment, it can match the corresponding scheduling system for flexible scheduling and rapid deployment. The core units of the STAR are independently developed, with high cost performance and strong system scalability, which can connect to the customer's MES (or other systems) and provide rich solutions according to different needs of customers. It can serve the future intelligent manufacturing industry 4.0.

It is mainly used in industries (such as electronics, metal products, auto parts, electricity, new energy, ships, aerospace), healthcare, family services, file management and other applications.





Intelligent scheduling

Based on the self-developed architecture and intelligent planning algorithm, the large-scale scheduling of robots is realized to ensure the efficient operation of the system.



Parts name

Stable performance

With independent development of core components, it shows the perfect combination of body and arm, and the performance is more stable.



Strong Scalability

It efficiently connects to the enterprise's MES/WMS information system and can quickly install application function modules according to requirements.



Intelligent obstacle avoidance

Equipped with sensors such as lidar and visual camera (optional), it can intelligently identify obstacles, actively park and avoid obstacles.



Automatic lifting

The internal materials are automatically lifting, which can maximize the use of body space, store more materials in a limited space, and reduce material transfer.



Rapid Deployment

Based on the SLAM navigation technology, without the scene transformation, the environment map is automatically generated, the scheduling planning service is realized, and the deployment is fast.



Self-check

It can obtain the robot hardware and operating status in real time, which realizes self-check and fast fault diagnosis.



Automatic charging

The STAR can automatically go back to charging pile for recharging, which ensures the robot to achieve 7*24 all-day operation and high-frequency fast response between tasks.





E-STOP **1990**

Drainage Outlet 2

Lifting Unit 1 (To Be Processed)

Singal Lights **5 4**

3D Camera 6

Electric Gripper 7

Lifting Unit 2 (Finished Product) 8

E10-L (Optional) 12" Touchscreen 📵

> **1** FR

Technical Specifications

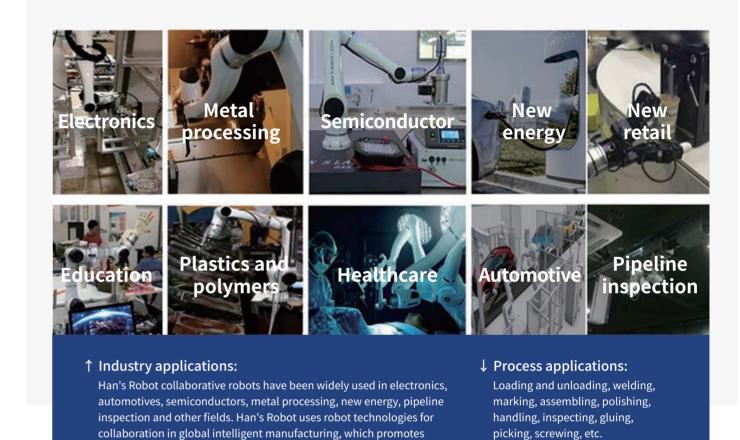
	Model	STAR-L	STAR-H	
Main body	Robot	E03 / E05	E10-L	
	Vehicle	FR-200 (payload 200kg)	FR-1200 (payload 1.2t)	
Basic performance	Dimensions (Elfin Not Included)	L900×W715×H950(mm)	L1530×W965×H1304(mm)	
	Weight (Shelf Included)	200kg	900kg	
	MAX Payload	100kg	600kg	
	Lifting Unit (Customizable)	10 Layers,15 PCS/Layer		
Running performance	MAX Velocity	1.5m/s		
	Navigation Mode	Laser SLAM		
	Actuation	Differential Drive		
Vision performance	Vision (Standard Mode)	Camera (Customizable)		
	Positioning Accuracy	±0.5mm		
Software	Operating Software	Robot application software / Dispatching software (optional)		
	Development Platform	IPC ubuntu 20		
Endurance performance	Battery Voltage	DC 48V		
	Battery Capacity	46AH	125AH	
	Running Time (with load)	8hrs	12hrs	
	Charging Mode	Automated / Manual		
	Charging Time	2hrs (Automated) / 1.5hrs(Manual)	2.5hrs (Automated) / 2hrs(Manual)	
External Interface	Standard Communication Interfac	rface TCP/IP, Modbus		
	Outbound Interface	WiFi,1 x RJ45		

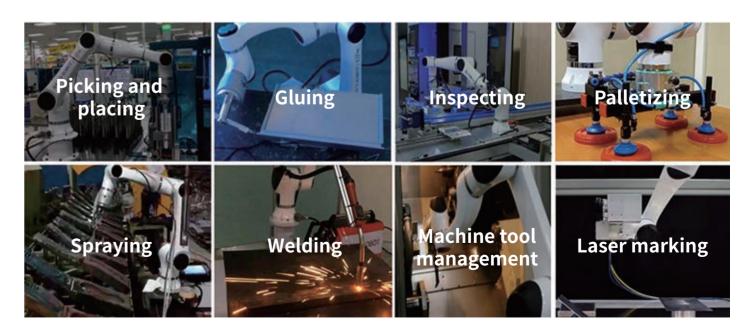


Han's Robot

productivity in all walks of life.

Applications





Electronics manufacturing industry

Laser cutting

One robot is used for loading and unloading for four laser cutting machines at the same time. The four cutting machines are placed in pairs, and a 7-axis guide rail is used in the middle to realize the motion of the collaborative robot between the machines. A vision camera is integrated to the robot to realize the positioning for loading and unloading as the required unloading precision of the laser cutting machine is about 0.1 mm.

Space-Saving

Easy to operate

The overall layout is compact which occupies a small area. and there is no need to do

It is easy to operate the collaborative robots. Customers can switch products or debug new products by themselves great changes to the original after simple training, which greatly plant. Moreover,the equipment reduces the cost of product replacement.

More scenarios: loading and unloading, inspecting, grinding, spraying, assembling, marking, etc.



Healthcare industry

Remote ultrasound diagnosis and treatment

The remote ultrasonic diagnosis and treatment robot realizes remote consultation of experts in different places by using teleoperation technologies, which meets the increasingly demand for diagnosis resources in the grassroots hospitals.

Precision: The robot accurately reproduces the doctor's operating position and strength, which ensures the quality of ultrasound imaging;

Friendly: Gentle motion control, real-time pressure tracking control, to achieve a friendly patient experience comparable to professional examination methods;

Safe: Ensure the safety of human-computer interaction through high-level safety functions such as robot motion area limitation, inspection pressure protection, and collision protection;

Efficient: High-speed remote communication realizes high-definition ultrasound image transmission, and remote real-time control of robotic arms, which ensures the efficiency and precision of doctors' diagnosis;



More scenarios: drug packaging, test tube pickup and placing, sterilization, testing, surgical assistance, etc.

Automotive manufacturing industry

Gluing for car lights

By adopting one-to-two structure integration, one cold glue device supplies can glue for two collaborative robots. The double-station free gluing improves the gluing efficiency and quality and avoids the impact on the personnel health, which greatly reduces labor and equipment costs.

Safe and flexible

Energy saving and low consumption

High-precision linear gluing, harmless operation improved yield rate.

The cold glue does not require heating, which greatly reduces energy consumption.



More scenarios: loading and unloading, spraying, assembling, inspecting, picking, marking, etc.

Hybrid robot

CNC loading and unloading

In this case, the composite robot moves intelligently in the same workshop to support multipleproduction links: CNC production workshop material transfer project Automatic loading and unloading items of materials

Case features

Han's robot 6-axis collaborative robot + intelligent mobile robot, with its large capacity and automatic lifting mechanism, can load more materials at one time, freely shuttle in the workshop, ensure the normal operation of multiple equipment in the workshop, and help customers to automate production needs



More scenarios: warehousing, packaging, assembling, testing, pickup, etc.

Metal processing industry

Laser Marking

Han's marking robots can realize multi-directional automatic marking, from loading and unloading to marking, which meets the unmanned, automated, and flexible use requirements, improves the delivery efficiency, and reduces production costs.

Flexible and efficient Easy to operate

Realize flexible, efficient, multi-angle, multi-material free marking.

Graphical programming and robot program editing are simple and easy.

More scenarios: marking, rust removal, grinding, screwing, welding, etc.

Semiconductor Industry

Wafer handling

Han's hybrid robots interwork with wafer processing equipment to provide MES whole-factory automated wafer handling solutions, and fully independent IPR upper-computer scheduling system and planning.

Fast and robust

One robot is connected to five wafer processing devices for loading and unloading, and the efficiency is 68% higher than manual operation. The fully automated black light factory works automatically in a controllable manner. Multiple devices can be independently scheduled in 24-hour operation.



More scenarios: lithography, cleaning, etching, precipitation, equipment care, grinding, etc.

Sanitary industry

Spin welding

Solve the pain points of ultrasonic welding with high noise and inconsistent manual feeding pace Less labor and higher efficiency, easy to operate, stable robot production



More scenarios: visual grasping, gate polishing, assembling, picking and placing, hot plate welding, loading and unloading, etc.

Pipeline inspection industry

Pipeline equipment inspection

In this application, Han's Robot is integrated with various sensors to realize 24-hour visual automatic inspection in the pipeline. The 6-DOF joint design allows the robot to be better planned for complex motion paths, increases the monitoring scope and precision, and achieves no-blind-angle monitoring.

Diverse applications Less risks

Used in power, energy, petroleum, transportation, smart buildings, etc.

Less safety risks and labor costs compared with traditional manual inspections



More scenarios: electricity, energy, construction, transportation, minerals, marine

Education industry

VR training

VR industrial robot task training system based on virtual reality. It realizes multi-brand, multi-robot, multi-scene robot task operation training, including robot welding training, robot spraying training, robot casting training, robot palletizing training, robot loading and unloading training, and robot mobile phone assembly training.
Learn and master the operations of industrial robots through the VR robot system, and practical training of physical collaborative robots, which further deepens and consolidates the basic knowledge and skill training results of industrial robots, and greatly improves the teaching and training effects.



More scenarios: teaching platform, cyclic assembly line, mobile robot application, SCARA application, laser marking robot loading and unloading workstation, disassembly and installation of collaborative robot, robot integrated standard workstation

New retail industry

Milk tea robot

In this application, a new tea flagship store uses Han's robots in the beverage production area to collaborate in tea making, blending, and delivery, which adds value (such as freshness, attractiveness, and customer experience) to its service and image and greatly speeds up beverage production.

Fresh experience

One-click self-service, widely used in airports, hotels, restaurants, stations, shopping malls, and other places

Save kitchen labor

Less labor and higher efficiency, easy operation, convenient maintenance, short time period of cost recovery



More scenarios: massage, coffee latte, unmanned sales, etc.