

S Heavy Payload Collaborative Robot

Han's Robot S heavy payload collaborative robot with high payloads and long arm reach, which can easily handle a super heavy 30KG payload and 1700mm~1800mm working radius. It can be widely used in machine loading and unloading, palletizing, assembly and heavy load handling applications. Han's Robot S heavy payload collaborative robot is a great tool for users to improve their productivity comprehensively, with a qualitative leap in product performance, safety protection, response time and anti-interference capability.



Suitable for heavy load scenarios

With a rated load of 20kg~30kg and a maximum working radius of 1800mm, it can cover a wide range of complex and large load applications

Simple customisation and easy deployment

The modular design of the whole machine, from the module to the boom, can meet the individual needs of customers, easy to install and dismantle, to achieve flexible deployment and easy maintenance

Very low barrier to entry

Support pad, computer, instructor and other multi-terminal graphical control, 30 minutes to learn to change the programming methods, 1 hour to start operation

Security collaboration

Based on core independent research and development capabilities, it has 10 advanced safety configuration functions such as collision detection, making human-machine collaboration more secure and reliable

Extremely fast response

End-to-end EtherCAT bus communication, compatible with high power supply and Gigabit Ethernet, real time control refresh frequency of 1000/5000 Hz and industry leading control accuracy

Industry

Electronics Automotive Food&Daily Chemicals
New Energy Metalworking Logistics

Application

Flexible and customised production	Loading and unloading of machine tools	Production line material handling
Palletizing and depalletizing	3C Manufacturing	Assembly

Technical Specifications

Model	S20	S30
Weight	64kg	93kg
Payload	20kg	30kg
Reach	1700mm	1800mm
Power consumption	800W typical application	1000W typical application
Joint Range	±360°	±360°
Joint Speed	J1-J2 90°/s J3-120°/s J4-J6 180°/s	J1-J2 120°/s J3 150°/s J4-J6 180°/s
Tool Speed	2.5m/s	3m/s
Repeatability	±0.1mm	±0.1mm
Degree of freedom	6	
End I/O port	Digital input: 3, digital output: 3, analogue input: 2	
Control box I/O port	Digital input: 16, digital output: 16, analogue input: 2, analogue output: 2	
I/O Source	24V 2A	
Communication	TCP/IP and Modbus	
Programming	Graphical programming , remote callinterface	
IP Classification	IP54	
Collaborative operation	10 advanced security configuration functions	
Main material	Aluminium alloy	
Working Temperature	0-50°C	
Power input	200-240V AC, 50-60Hz	
Cable	Cable to control box: 5m, cable to teach pendant: 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


Mini Control Box (Optional)

Dimensions	323x221x80(mm)
Power Input	DC30~60V
I/O Source	DC24V
I/O Port	Inputs 8 , Outputs 8
IP Classification	IP20
Communication	TCP/IP Modbus


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