

# H35-210

H Series robot redefines programming mode, establishing a shared safety space between humans and robots. Through seamless integration with AI, it delivers flexible manufacturing solutions for enterprises, embodying unparalleled intelligence, efficiency, safety, and reliability.

<b>35kg</b>	<b>2100mm</b>
Payload	Reach
<b>170kg</b>	<b><math>\pm 0.05</math>mm</b>
Weight	Repeatability



## TRUSTED SAFETY

- Emergency stop, incl. STO, SBC.
- All-Joint braking system: Zero droop during power loss.

## ADVANCED MOTION CONTROL

- Paired with the speed of traditional industrial robot.
- Precision upgraded to industrial robot level through accurate calibration and compensation.
- Identification and compensation of high precision kinematic models ensure both accurate trajectory and smooth movement.

## FLEXIBLE USABILITY

- Easy handling with enhanced precision for point-to-point and trajectory programming.
- Mastering the robot in 60 minutes via graphical UI and intuitive hand guiding.
- Integrated vision system, capable of running in unstructured and dynamic automation.

## QUALITY SYSTEM

- Comprehensive manufacturing quality management system.
- Rigorous manufacturing quality control & inspection.
- Kinematic calibration before shipment to ensure absolute accuracy.
- 100+ design type tests, 20+ delivery inspections, 120 hours continuous no failure operating before shipment.

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## Specification



### Control Cabinet



Model	H35-210		Demonstrator	PC/Laptop/Tablet/Smartphone/Teach pendant
DOF	6		Safety device	1 hand-held enable channel, 1 hand-held E-stop channel
Payload (kg)	35		Teaching mode	Point/Continuous trajectory
Reach (mm)	2100		High dynamic force control	Cartesian space
Repeatability (mm)	$\pm 0.05$			Axis space impedance control
Weight (kg)	170			
IP Classification	IP54		IP classification	IP20
Max. Speed at Tool End (m/s)	2		IO interface	16DI (PNP), 8DO (PNP), 2AI/2AO
Working Range	Axis1/2/4/5/6: $\pm 360^\circ$ Axis3: $\pm 160^\circ$			7 channels of safety emergency stop input
Max. Speed	Axis 1/2: 45 °/s Axis 3: 110 °/s Axis 4/5/6: 150 °/s		Power supply	24VDC, 2A
Mounting	Any orientation		Communication	Default: TCP IP, Modbus RTU, Modbus TCP, RS485
Operating Temp.	0 – 50 °C		Option	Profinet (slave), EtherNet/IP (slave)
Operating Humidity	70% RH		Power	4.5kW
Flange Connector	ISO 9409 1-80-6-M8		Cabinet dimension	450*280*360mm
Flange Communication	2DI, 2DO, 24VDC, RS485		Weight	20kg
			Material	SUS
			Cable length	Robot-Cabinet: 3m
				Cabinet power cable: 3m, Handle: 5m

### End Effectors

Various end effectors can be quickly switched to match multiple industry applications



Handling

Screw fastening

Polishing

Welding

Spraying

### Teach Pendant

### Optional

Weight (excl. cable) 1.24kg

Display Size 10.1 inch



### Technical Drawings

