



GIATEC.NL
Allround partner industriële techniek

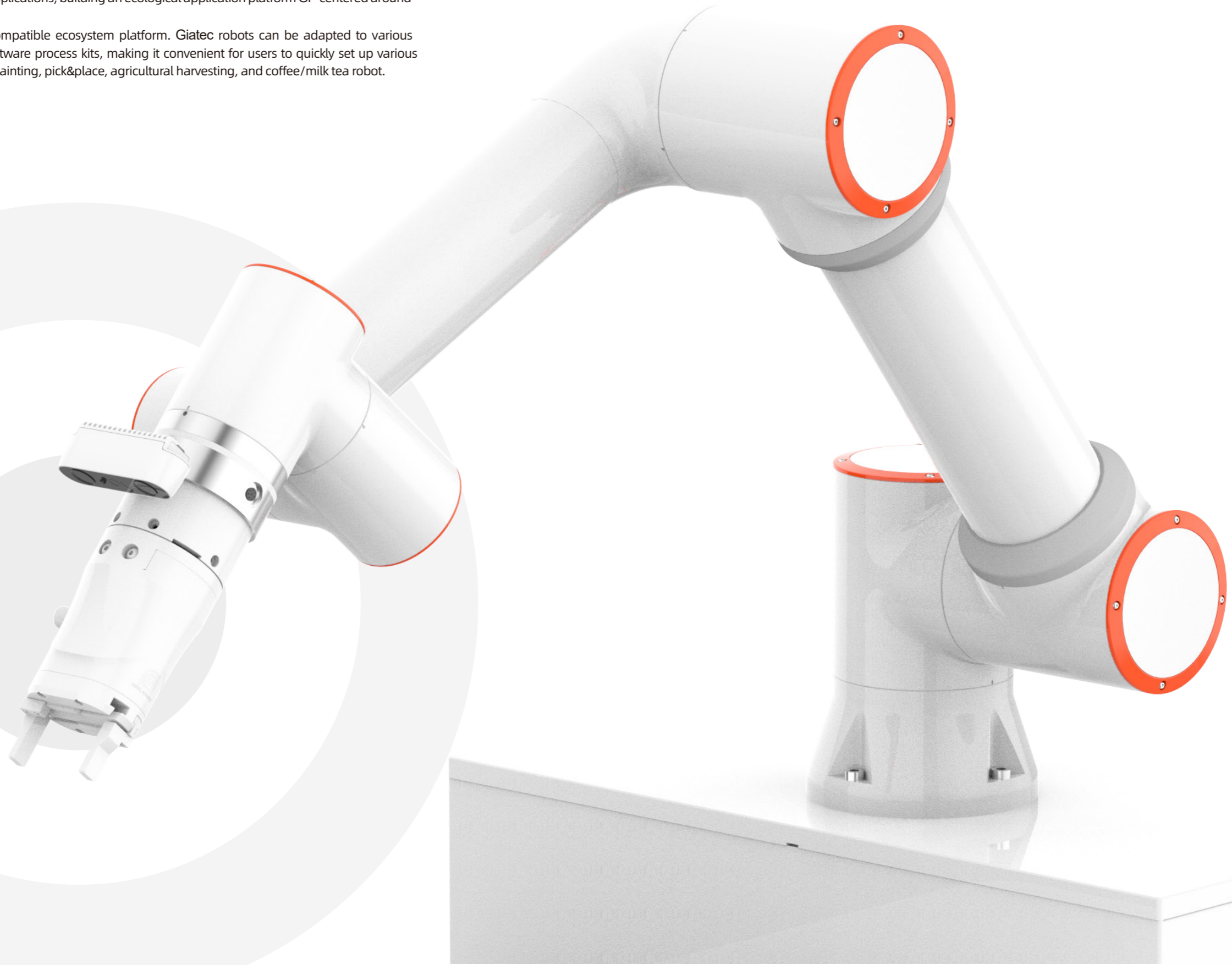


Accessories Ecosystem

| Giaetc Eco GI-

Giaetc is dedicated to being a pioneer in scenario applications, building an ecological application platform GI- centered around robotic products and targeting various industries.

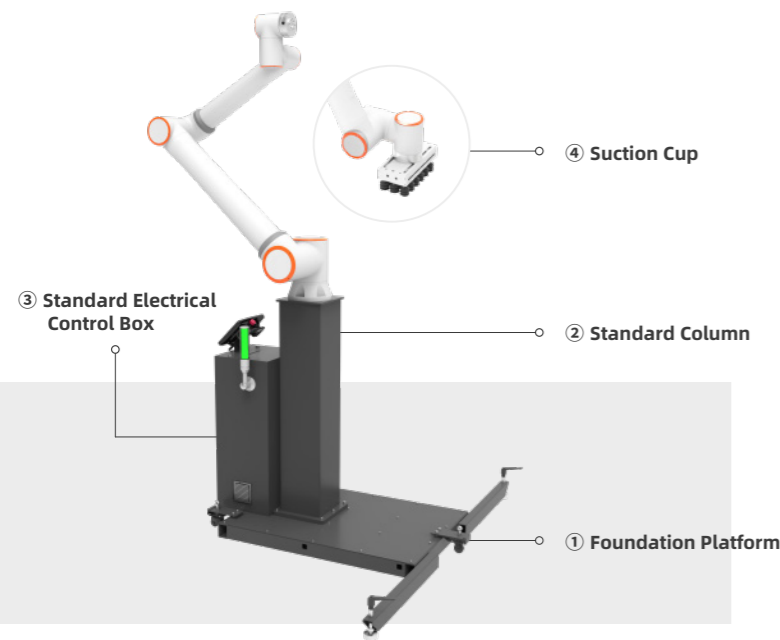
FAIRINO is committed to building an open and compatible ecosystem platform. Giatec robots can be adapted to various integrated equipment, providing multi-scenario software process kits, making it convenient for users to quickly set up various application scenarios such as welding, palletizing, painting, pick&place, agricultural harvesting, and coffee/milk tea robot.



Turnkey Palletizing Workstation

Complete palletizing automation tasks in three steps

Just three steps are needed to complete the overall programming work for Giatec turnkey palletizing solution. The graphical programming is convenient and efficient; plug and play allows for quick and easy switching, achieving production line flexibility and automation.



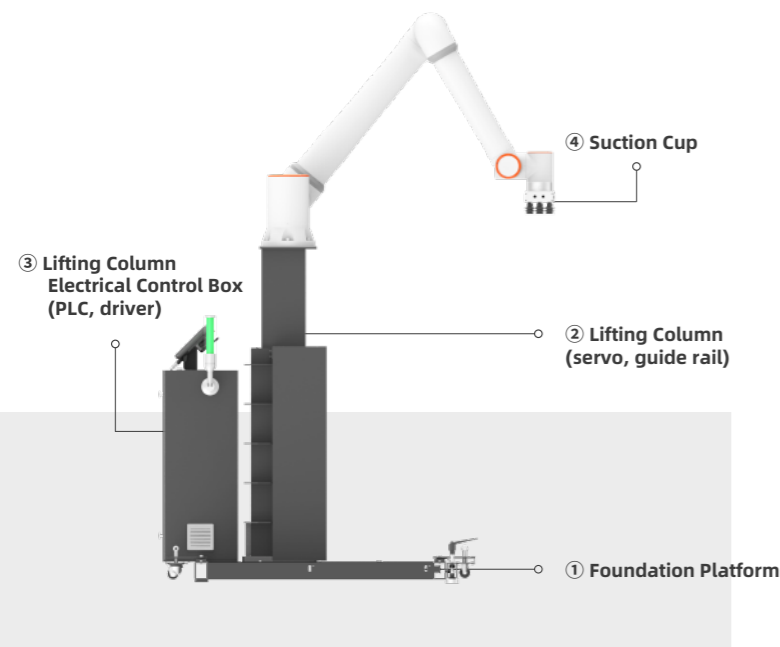
FR-Palletizing-Hardware

Using GI-20

Column height: **1100mm**
Pallet size: **1200*1000mm/1200*800mm**
Mobility: Can be moved by one person
Total weight: Approx **190kg**

Using GI-10

Column height: **1100mm**
Pallet size: **1200*1000mm/1200*800mm**
Mobility: Can be moved by one person
Total weight: Approx **230kg**

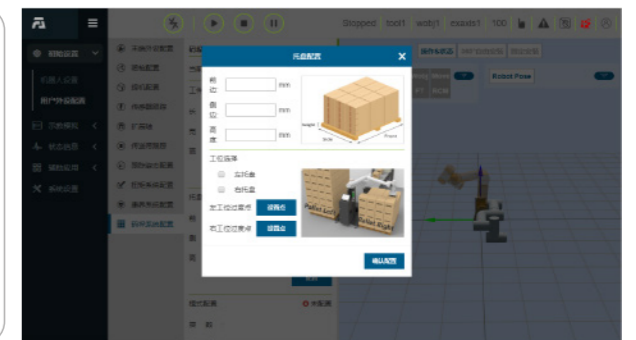
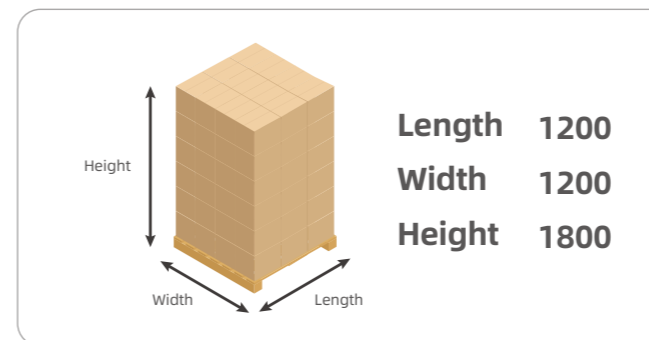
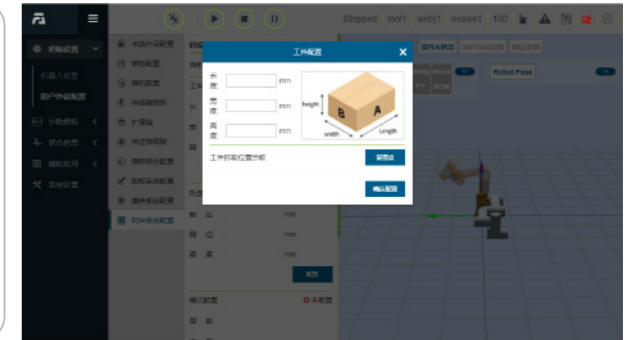
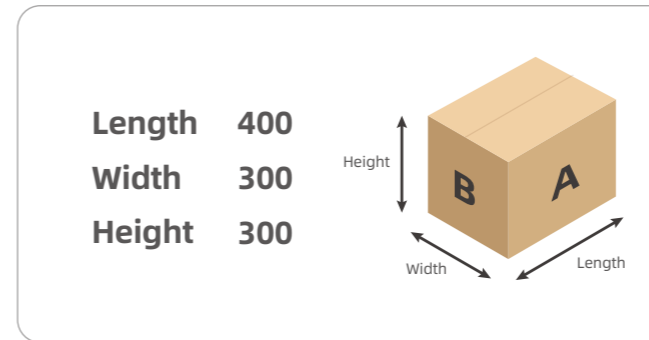


Using GI-10

Lifting column height range:
1140-1670mm, lifting speed 45mm/s
Electrical specification:
AC220V, 400W, standard incremental encoder
Pallet size: **1200*1000mm/1200*800mm**
Mobility: Can be moved by one person
Total weight: Approx **240kg**

Using GI-20

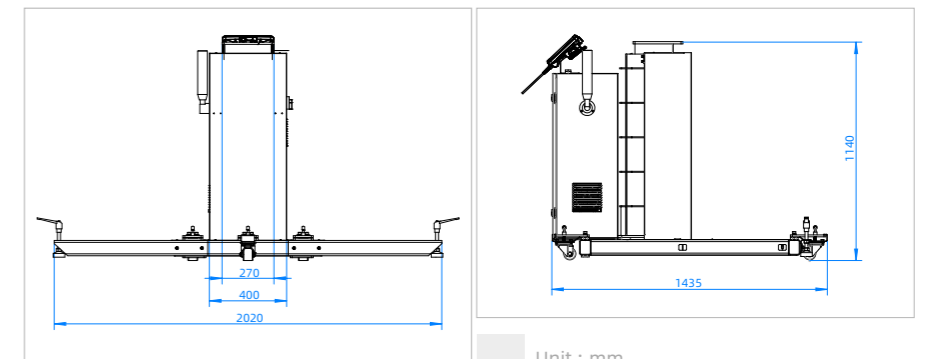
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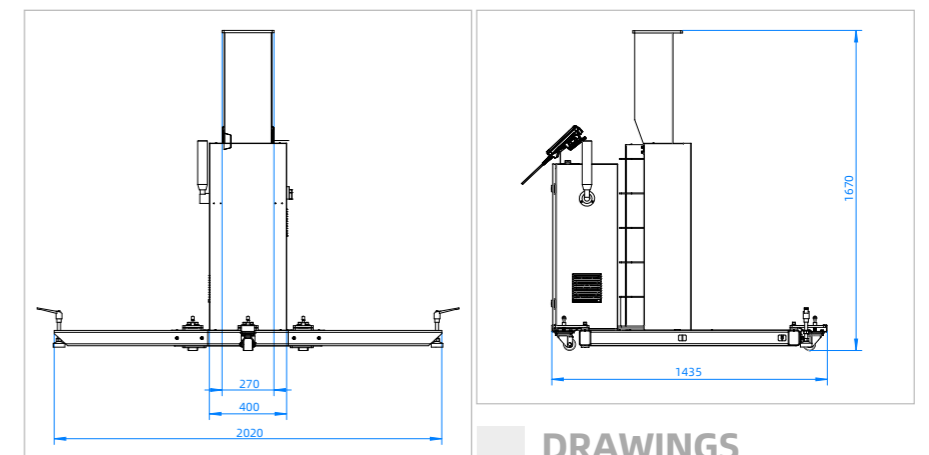
Web interface

Delivery Time 25 working days

Palletizing
Solution



Unit : mm

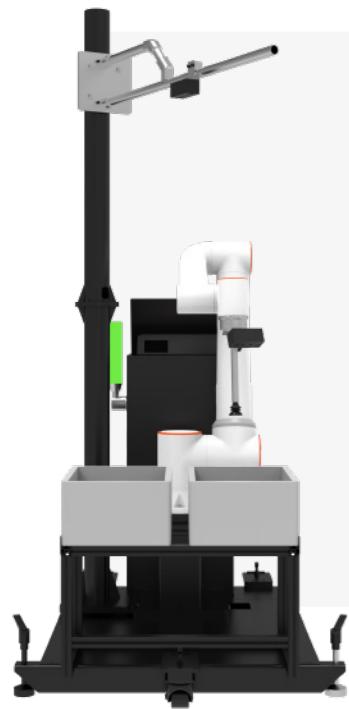


DRAWINGS

Intelligent Bin-picking Workstation

A revolutionary smart picking solution

The smart bin-picking solution combines the advantages of 3D cameras and collaborative robots, integrated with the enterprise's smart warehousing management platform, to achieve full-process automation of warehousing, inventory management, storage, transportation, and picking. It enables 24/7 intelligent sorting, creating a cost-saving and efficient "Dark Factory," and realizing automation of multiple product categories on a single production line.



GI-Bin-picking-Hardware

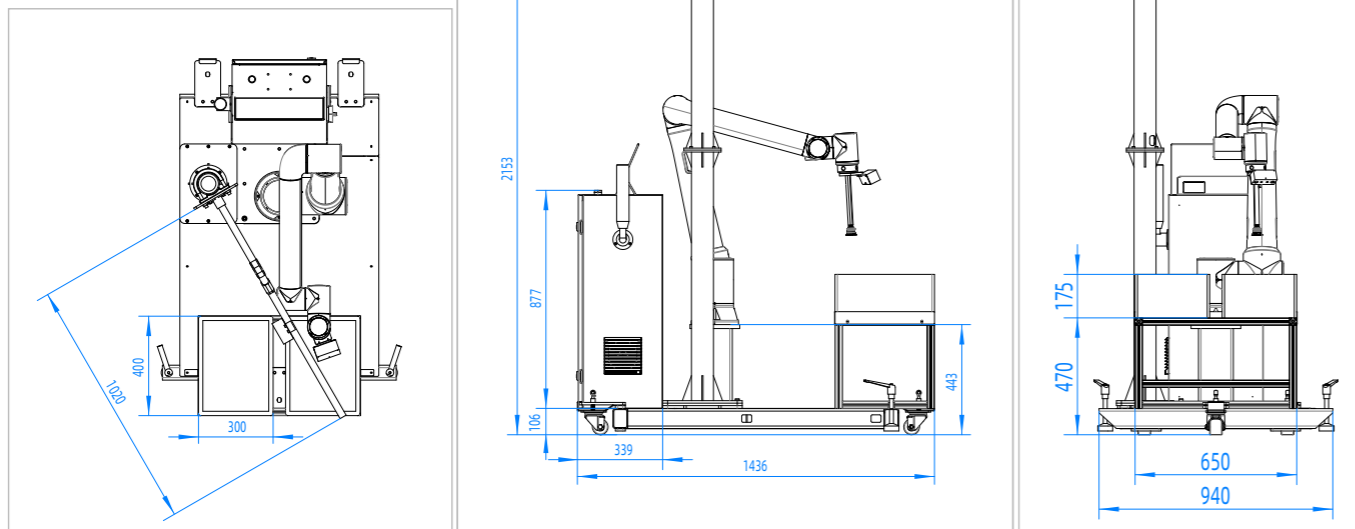
Solution

- ① Foundation Platform (small)
(standard platform + standard column)
- ② Electrical Control Box
- ③ Suction Cup Kit
- ④ PC: DELL3020T
- ⑤ Touch Screen Display: R12 pro
- ⑥ Camera: FS820-E1

Technical Specification

Sorting Speed 15s/pcs
Size 2000*1450*2200mm
Footprint 3m²
Weight 220kg

DRAWINGS Unit: mm



High efficiency



High compatibility



High storage capacity



Fast ROI

Delivery Time 25 working days

Qualification PC: CQC

BIN-PICKING



Intelligent Welding Workstation

Open a new journey of convenient welding with one click

Giatic digital welding process software kit supports various welding techniques, fully meeting the welding needs of different scenarios. The programming-free automatic welding platform developed by Giatic can automatically locate welding seam positions, conduct simulation rehearsals in advance, identify problems promptly, and mitigate risks. During the welding process, real-time welding seam deviation compensation is performed to ensure the consistency and precision of the welding operations.



GI-Welding-Hardware

Welding Hardware

Solution

- ① Welder (with water tank): Ehave2 CM500M
- ② Smart Tool: SMART TOOL V2.1
- ③ Switch Cabinet
- ④ Magnet (3 pcs)
- ⑤ Trolley
- ⑥ Router: TL-AP1201GP
- ⑦ Controller
- ⑧ Torch Extension Cable
- ⑨ Welding Torch

Technical Specification

Size **1449*750*1098mm**
Magnetic base for fixation, can be easily moved around
Magnetic base size **382*331*121mm**
The equipment is fixed on a trolley, which can be moved along with the trolley
The wire feeder can rotate 360° and can be detached from the trolley and placed freely

Robot Vision

Solution

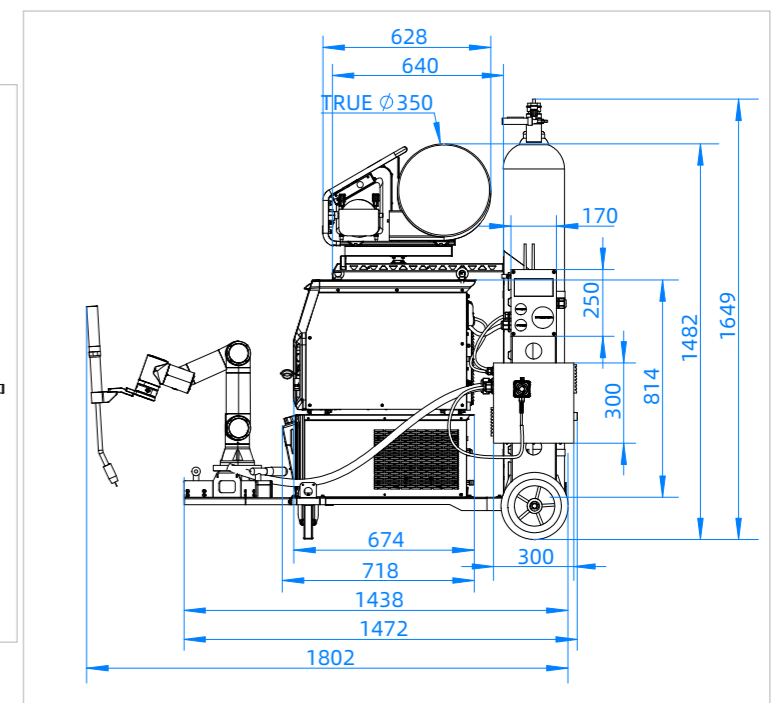
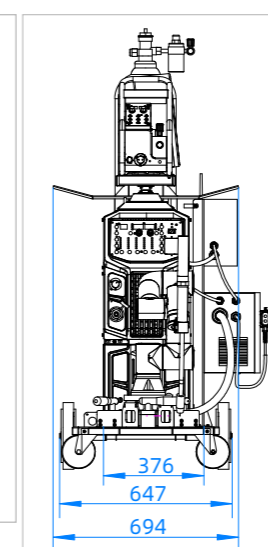
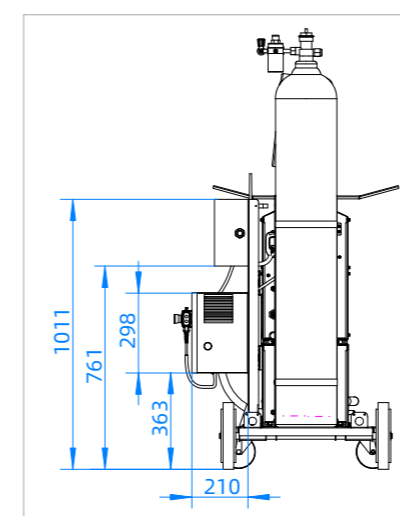
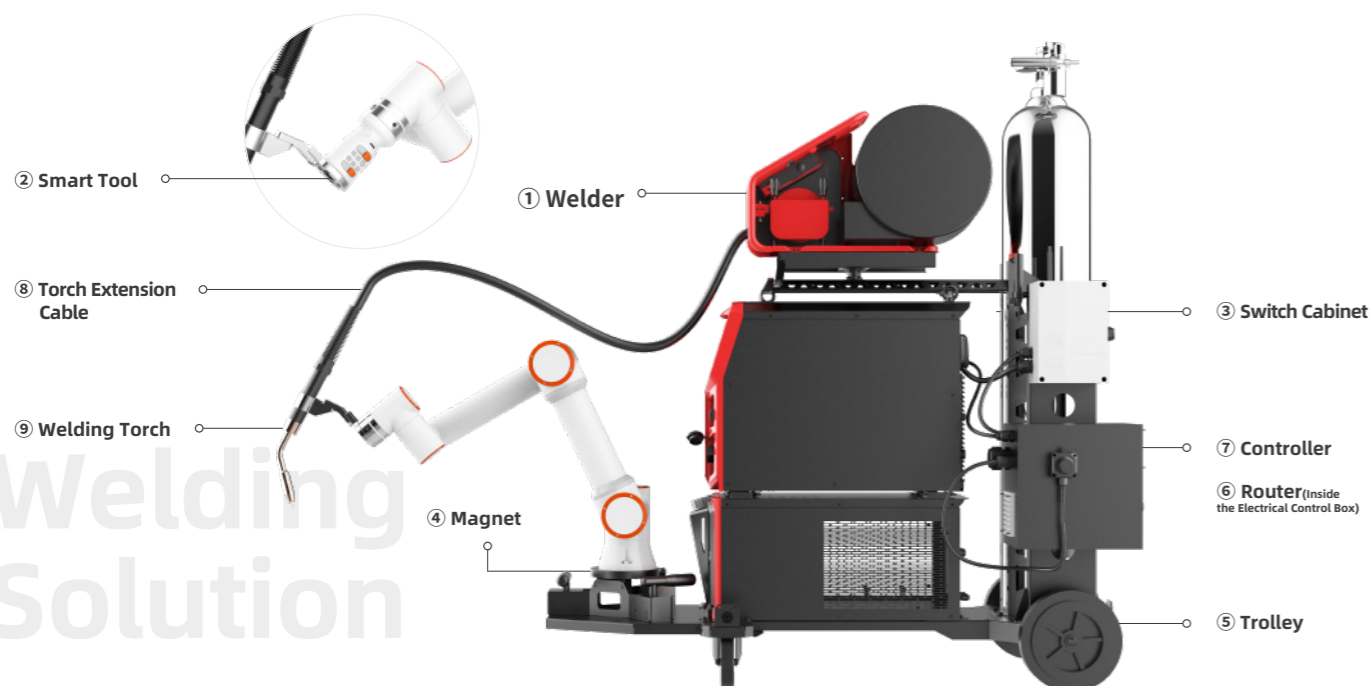
- ① Camera: AL-M PND0700GB4
- ② IPC Industrial Processing Computer
- ③ IPC Graphics + Graphics Card Display Card
- ④ Vision Software

Technical Specification

Working Distance **350-800mm**
Near Field of View **270mm * 200mm@350mm**
Far Field of View **630mm * 450mm@800mm**
Resolution **1440 * 1080**
z-axis Repeatability **0.08mm@500mm**
Fastest Acquisition Time **0.8s**

Delivery Time 25 working days

Qualification Magnet: GIG
Camera AL-M: SGS
IPC Graphics + Graphics Card Display Card: CE、UL、RHOS



DRAWINGS

Unit : mm

Welding Solution

Spark Project Education Platform

Eco-level application of "Robot + N" in education field

By integrating visual systems, end effectors, torque sensors, mobile platforms, and other hardware and software components with robots, we achieve a "hand" + "eye" + "foot" + "brain" hardware combination, making our platform more open, user-friendly, and with greater expandability.



Plug and play



Compatible with peripheral devices



Support secondary development

Integrated Modular Design

Open Hardware and Software Platform

Secure Innovative Application



FR-Spark Project-Hardware

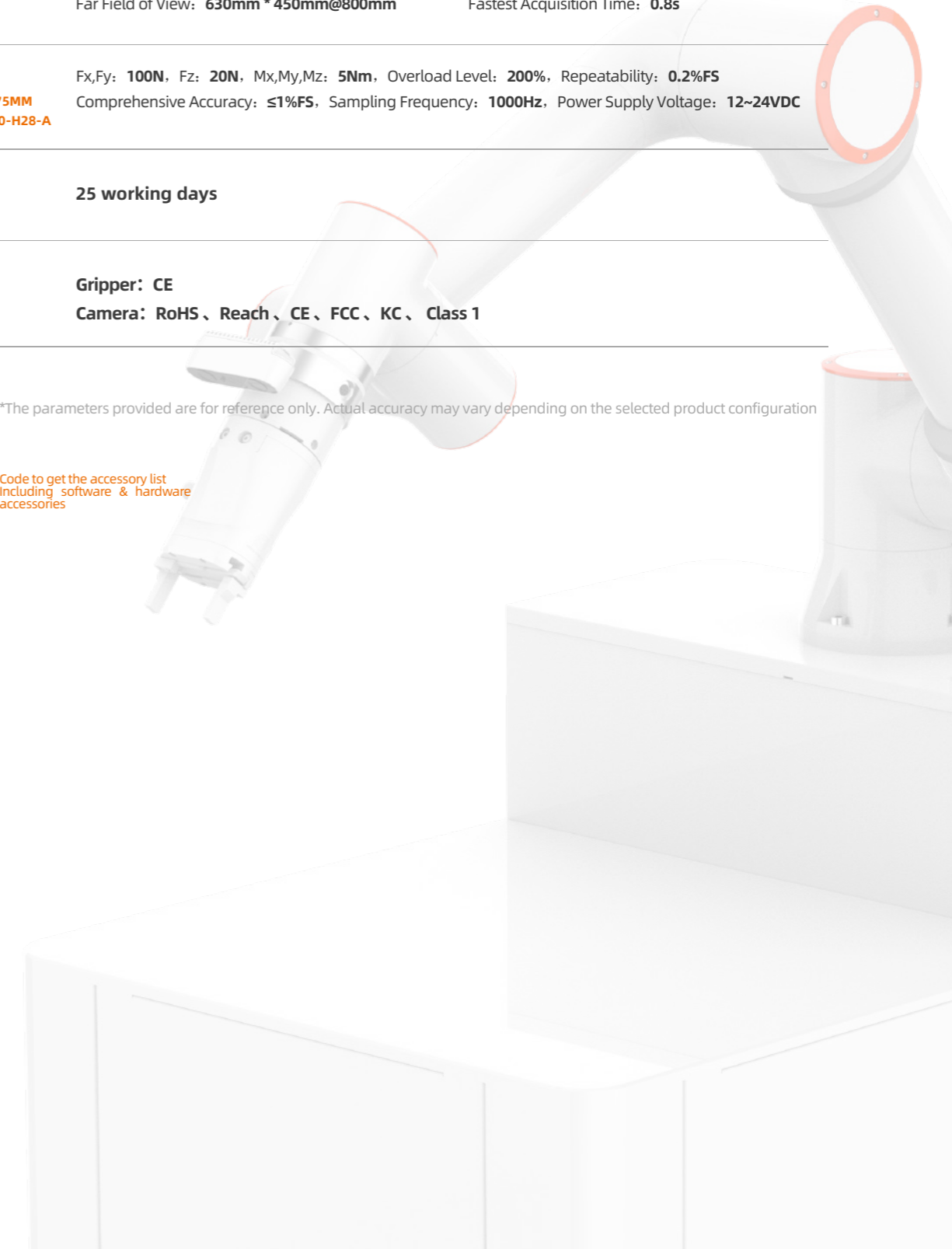
■ Gripper ■ Camera ■ Sensor

EDUCATIONAL WORKBENCH

Gripper	Model: EPG40-050	0-6mm Adjustable Stroke	40N Gripping Force	0.22kg Body Weight	Digital I/O Communication Protocol
Camera	Model: gemini2	Working Distance: 350-800mm Near Field of View: 270mm * 200mm@350mm Far Field of View: 630mm * 450mm@800mm	Resolution: 1440 * 1080 z-axis Repeatability: 0.08mm@500mm Fastest Acquisition Time: 0.8s		
Sensor	Model: GZCX-6F-75MM XJC-6F-D80-H28-A	Fx,Fy: 100N , Fz: 20N , Mx,My,Mz: 5Nm , Overload Level: 200% , Repeatability: 0.2%FS Comprehensive Accuracy: ≤1%FS , Sampling Frequency: 1000Hz , Power Supply Voltage: 12~24VDC			
Delivery Time	25 working days				
Qualification	Gripper: CE Camera: RoHS、Reach、CE、FCC、KC、Class 1				

*The parameters provided are for reference only. Actual accuracy may vary depending on the selected product configuration

Code to get the accessory list
Including software & hardware accessories



Item	EPG40-050	Orbbec Gemini 2	GZCX-6F-75MM	XJC-6F-D80-H28-A
Performance Parameters	Adjustable Stroke: 0-40 mm Single Finger Clamping Force: 2-50 N Repeatability: ±0.02 mm Open/Close Time: 0.5 s Maximum recommended load: 0.8 Kg Operating Environment: 5~40°C, 85% RH or less	Applicable scenario: indoor/semi-outdoor Depth measurement range: 0.15m-10m Ideal working range: 0.2m-5m Camera drive: UVC SDK: OrbbecSDK Operating Environment: 5~40°C, 85% RH or less IR camera resolution @ frame rate: 1280x800@30fps, 640x400@60fps Color Image Resolution @ Frame Rate: 1920x1080@30fps, 1280x720@60fps, 640x480@60fps, 640x360@60fps	Fx,Fy(N): 100 Fz(N): 200 Mx,My(Nm): 5 Mz(Nm): 5 Temperature Sensitivity Drift: ≤3%F.S. Zero Temperature Drift: ≤0.1%F.S./10°C	Nonlinear: ≤0.5%F.S. Zero Output: ±5%F.S. Repeatability: ≤0.1%F.S. Temperature compensation range: -10%~40°C Safety overload: 300%F.S. Temperature Sensitivity Drift: ≤3%F.S. Zero Temperature Drift: ≤0.1%F.S./10°C
Dimension	40*24*87mm	90*25*30mm	75*30.5mm	75*28mm
Weight	360g	97g	200g(Cable weight included)	200g(Cable weight included)
IP classification	IP40	/	IP64	IP65
Communication Interface	Modbus RTU(RS 485), Digital I/O	MIPI	RS485/422	RS485/Industrial Ethernet
Qualification	CE, RoHS	Class1, RoHS, FCC, CE, Reach, KC	/	/





GI - ACCESSORIES ECOSYSTEM