

苏州市蜂鸟机器人科技有限公司

地址:江苏省苏州市吴中区太湖街道前珠路7号具身智能产业园D幢5层

邮箱:support@humibot.com

电话:+86 18014029870 (工作日9:30-18:30)

网址:https://www.humirobotics.cn

SUZHOU HUMI ROBOTICS TECHNOLOGY CO., LTD.

Address: 5th Floor, Building D, Suzhou Embodied Intelligence Industry Park, No. 7 Qianzhu Road, Taihu Street, Wuzhong District, Suzhou, Jiangsu Province, China

Email: support@humibot.com

Phone: +86 18014029870 (Weekdays 9:30-18:30)

Website: https://www.humirobotics.com

版本:V3.0-20260421

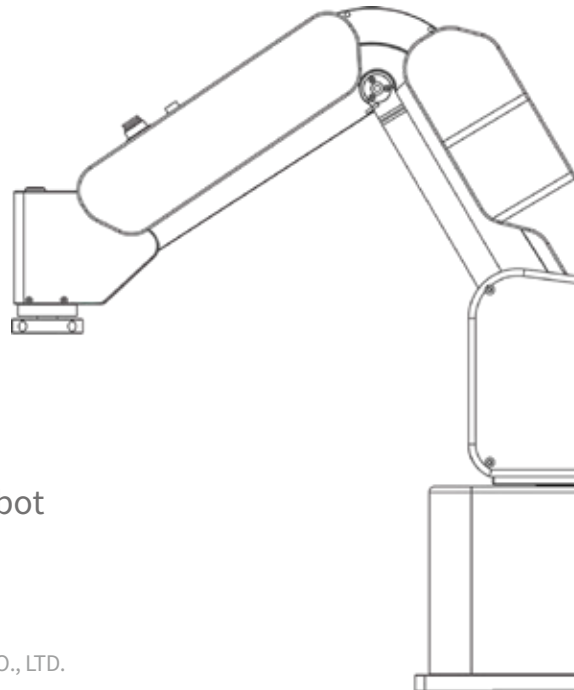


IP1000

轻量级工业四轴机械臂

Lightweight Industrial 4-axis Robot

© 2026 SUZHOU HUMI ROBOTICS TECHNOLOGY CO., LTD.



⚠ 警告

在使用本产品之前, 请阅读本手册中所有说明及警告提示。

- 为避免火灾或电击危险, 请勿将产品暴露在雨中或潮湿的地方。
- 请勿将产品放在火中或靠近火处。
- 请勿将本产品放置或使用在炎热潮湿的地方。
- 请勿暴力拆卸本产品。
- 请勿将产品暴露在过度的冲击下, 如从高处跌落。
- 存储环境温度为-25°C~55°C, 请勿将机器置于此范围外。

⚠ 开机必读

1.本册为IP1000 产品画册 关于本产品的操作使用及二次开发, 请先在蜂鸟机器人官网阅读并下载相关指导说明。

下载链接: <https://www.humirobotics.cn/ip1000-4-dof-industrial-pick-place-robot>

IP1000

轻量级
工业四轴机械臂



490mm
工作半径

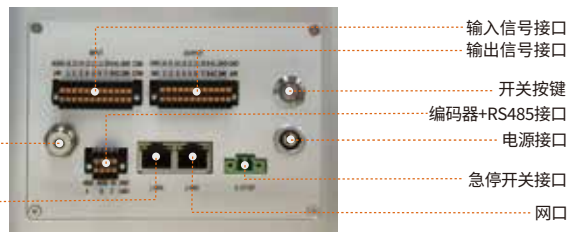
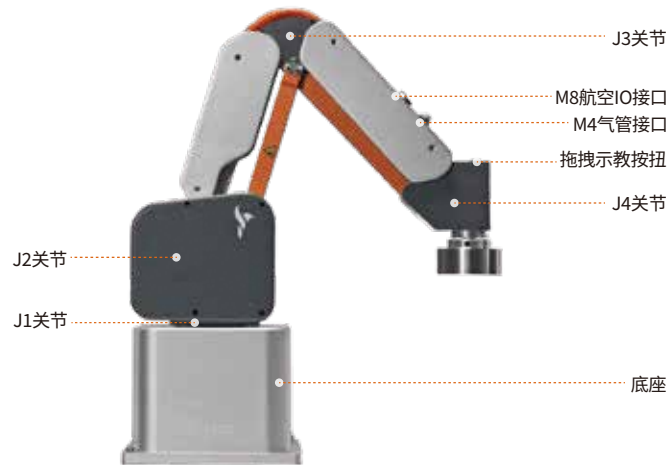


±0.05mm
重复定位精度



1000g
最大负载

硬件介绍页



底座接口

发货物料清单如下:

物料名称	数量
IP1000整机	1
急停开关	1
零位标定块	1
网线	1
IO端子	3
产品画册	1

轻量级工业四轴机械臂

IP1000是一款高性能轻量级四轴机器人，专为快速部署和低成本自动化而设计。凭借紧凑型设计与490mm臂展，可在有限空间内灵活部署，轻松集成至工作站、生产线等多种场景，可广泛应用于3C电子、食品、彩妆、金属制造等领域。支持图形化编程、拖动示教及预调轨迹功能，15分钟轻松完成部署。IP1000机械臂集易用、可靠与高性价比于一体，是您的轻量自动化之选。



3C电子 - 点涂胶工艺



精密仪器 - 高重复精度

3C电子行业

轻量级高精度 $\pm 0.05\text{mm}$ ，多品种快速切换，小批量高频作业效率提升50%以上，降低不良率和返工成本。



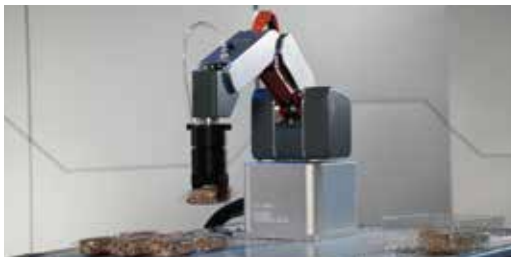
精密仪器与医药行业

低振动、高重复精度作业，支持复杂多工序协作，降低人为误差和损耗，实现高可靠性与可追溯生产流程。



食品行业

占地小于A4纸，模块化灵活布局，低维护成本，投资回报期短，适应多品类生产和中小型产线。

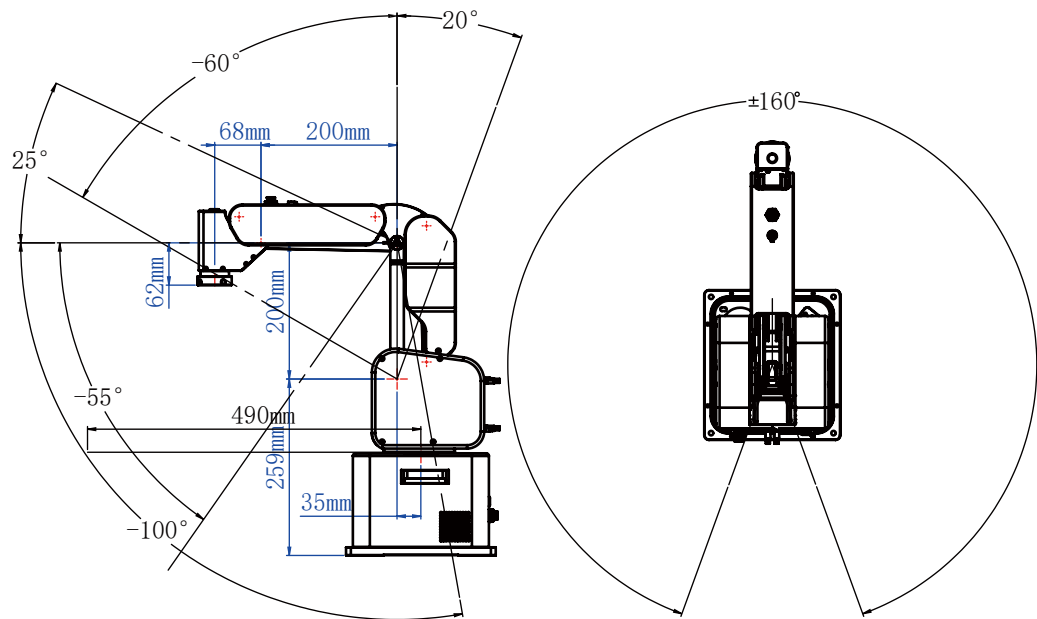


塑膜加工行业

耐高温、防尘、防雾设计，模块化快速部署，保证加工精度与稳定性，同时提高安全性和车间自动化水平。



尺寸与工作范围



产品参数

型号	IP1000
自由度	4 轴
最大工作半径	490 mm
重复定位精度	± 0.05 mm
最大负载	1000g
关节运动范围	J1: -160° ~ 160° J2: -60° ~ 20° J3: -55° ~ 25° J4: $\pm 360^{\circ}$ J2+J3: -100° ~ 25°
关节最大速度	J1: $300^{\circ}/s$ J2: $290^{\circ}/s$ J3: $290^{\circ}/s$ J4: $300^{\circ}/s$

控制方式	示教器控制
通信接口	TCP/IP、Modbus TCP、 数字 I/O、模拟 I/O
SDK 支持	提供 SDK，支持 C++
电源	100-240V 50/60Hz
额定功耗	0.75kw/h
本体重量	11kg
底座尺寸	200mm \times 220mm
工作环境温度	0°C - 40°C
储存环境温度	-25°C ~ 55°C
安装方式	桌面安装

产品保修卡

用户信息(必填):

购买人: _____ 订单号: _____ 联系电话: _____

产品问题描述(必填): _____

如需退换货, 请事先联系客服确认退回相关信息。待客服确认后, 填写此卡并将这一页随同产品一起寄回。

注: 我司在法律允许范围内保留对本产品保修卡解释和修改的权利。

- 产品自签收起7日内未拆封可无理由退换, 因产品退换所产生的费用及其他风险需由客户承担。
- 用户如需产品保修服务需提供相应的购买单据及产品保修卡作为保修凭证。
- 保修起始日期为物流签收日, 免费保修期限为1年。
- 凡属于正常使用下由于产品本身质量问题引起的硬件故障, 保修期内蜂鸟机器人给予免费维修, 维修更换的配件归蜂鸟机器人所有。
- 在交付产品的保修期内, 本公司仅对正常使用机器人时发生的故障进行免费修理。

但在以下情况下, 将对客户收取修理费用(即使在保修期内):

- (1) 因不同于手册内容的错误使用以及使用不当而导致的损坏或故障。
- (2) 客户未经授权进行拆卸导致的故障或未经授权进行修理而导致的损坏。
- (3) 因地震、洪水等自然灾害导致的损坏。

⚠ Warning

BEFORE USING IP1000 READ ALL INSTRUCTIONS AND CAUTIONARY MARKINGS IN THIS MANUAL

1. Do not expose the product to rain or moisture to reduce fire or shock hazard.
2. Do not place the product in or near fire.
3. Do not leave the product in a car in hot or humid weather.
4. Do not disassemble, crush or pierce the product.
5. Do not expose the product to excessive shock such as dropping from a high place.
6. The storage temperature range is -25°C to 55°C. Please do not place the machine outside this range.

⚠ Attention

This volume is the product brochure for the IP1000. For the operation and secondary development of this product, please first read and download the relevant instructions on the Humi Robotics

Official Website:

<https://www.humirobotics.com/products/humi-robotics-ip1000-4-dof-lightweight-industrial-palletizer-pick-place-robot>

IP1000

Lightweight
Industrial 4-axis Robot



490mm
Working Radius

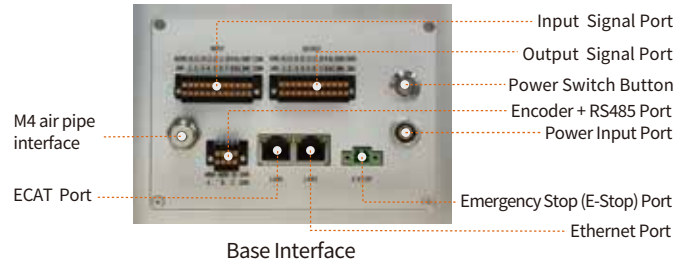
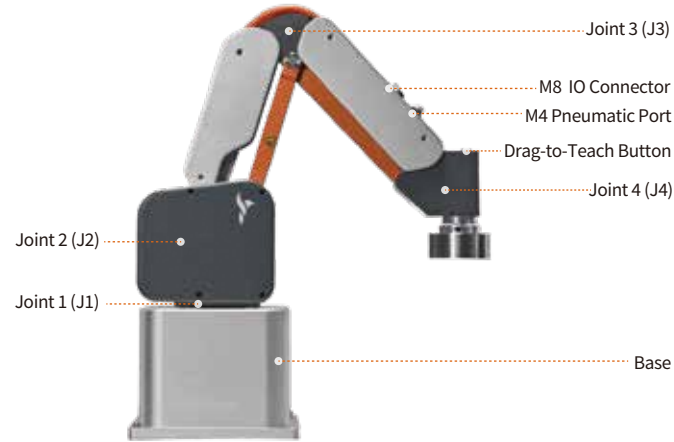


$\pm 0.05\text{mm}$
Repeatability



1000g
Payload

Hardware Introduction



What is in the box?

List	Quantity
IP1000 Complete Unit	1
Emergency Stop Switch	1
Zero-Point Calibration Block	1
Ethernet Cable	1
IO Terminal	3
Product Brochure	1

Lightweight Industrial 4-axis Robot

The IP1000 is a high-performance lightweight 4-axis robot designed for rapid deployment and low-cost automation. Featuring a compact design and a 490mm reach, it enables flexible installation in confined spaces and easy integration into workstations and production lines. It is widely used in 3C electronics, food, cosmetics, metal processing, and other industries. Supporting graphical programming, drag-to-teach, and pre-tuned trajectory functions, the IP1000 can be deployed in just 15 minutes. Combining ease of use, reliability, and high cost-effectiveness, it is the ideal choice for lightweight automation.



3C Electronics - Spot Gluing Process



High Repeatability

3C Electronics

Lightweight high-precision $\pm 0.05\text{mm}$. Small-batch high-frequency operations can achieve an efficiency increase of over 50%, reducing defect rates and rework costs.



Cosmetics, Metal Processing

Low vibration, high repeatability accuracy operations, supporting complex multi-process collaboration, reducing human errors and losses.



Food Industry

Modular and flexible layout, low maintenance cost, short return on investment period suitable for multi-category production and small-scale production lines.

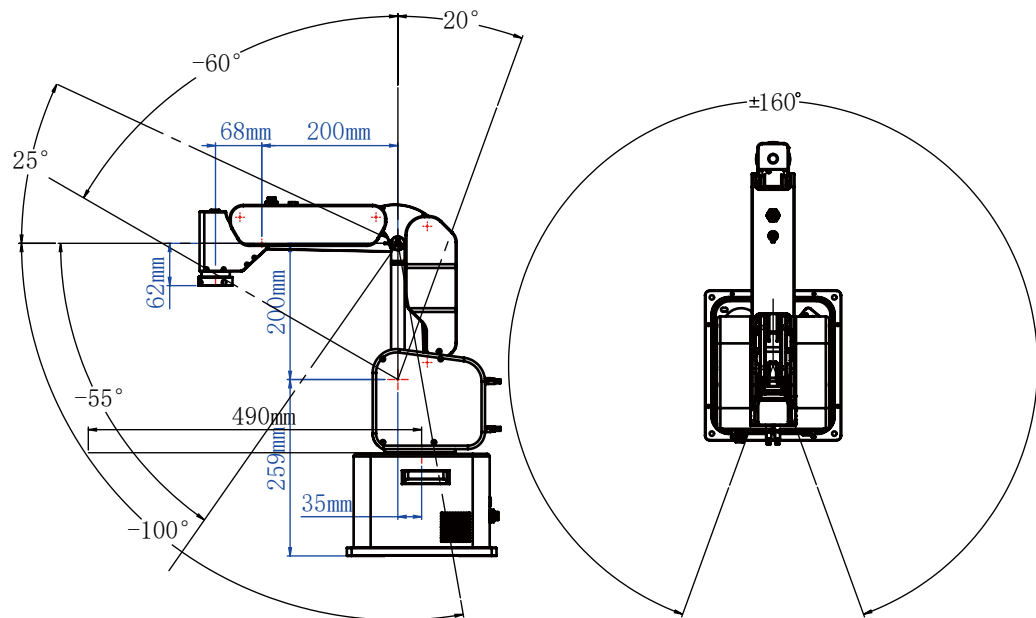


Plastic Film Processing Industry

Designed for high temperature resistance, dustproof and oil mist protection, it enables rapid deployment and ensures processing accuracy and stability.



Dimensions



Product Parameters

Parameter	Details
DOF	4-axis
Working Radius	490 mm
Repeatability	±0.05 mm
Maximum Payload	1000g
Joint Range of Motion	J1: -160°~160° J2: -60°~20° J3: -55°~25° J4: ±360° J2+J3: -100°~25°
Maximum Joint Speed	J1: 300°/s J2: 290°/s J3: 290°/s J4: 300°/s

Control Methods	Teach pendant control
Communication Interfaces	TCP/IP, Modbus TCP, Digital I/O, Analog I/O
SDK Support	Provides SDK, Supports C++
Power Supply	100-240V 50/60Hz
Power Consumption	0.75kw/h
Robot Weight	11kg
Base Dimensions	200mm × 220mm
Operating Temperature	0°C ~ 40°C
Storage Environment Temperature	-25°C ~ 55°C
Installation Method	Desktop-mounted

WARRANTY CARD

Customer Information (Required):

Customer: _____ Order No: _____ Phone: _____

Address: _____ Logistics Receipt Date: _____

Product problem description(Required): _____

If you need to return or exchange the product, please contact our customer service in advance to confirm the relevant return information. After confirmation by customer service, fill out this card and return this page along with the product.

Note: Our company reserves the right to interpret and modify this product warranty card within the limits permitted by law.

- The product can be returned or exchanged without reason within 7 days of receipt if it remains unopened. Any costs and risks associated with the return or exchange shall be borne by the customer.
- If the user requires warranty service, the corresponding purchase receipt and product warranty card must be provided as proof of warranty.
- The warranty period begins on the date of logistics confirmation of receipt, and the free warranty period is 1 year.
- If a hardware malfunction results from a product quality issue under normal use, Humi Robotics will provide free repair services during the warranty period. Replacement parts obtained through repair services shall be owned by HumiRobotics.
- During the product warranty period, our company provides free repairs only for malfunctions that occur during normal use of the robot.

Repair fees will be charged to the customer (even during the warranty period) under the following circumstances:

- (1) Damage or malfunction caused by improper use or operation inconsistent with the manual.
- (2) Malfunction resulting from unauthorized disassembly by the customer, or damage caused by unauthorized repairs.
- (3) Damage caused by natural disasters such as earthquakes or floods.