

# PERFORMANCE ADVANCED COBOT

Enhancing Flexibility and Efficiency





Empower your workspace with our cobots that automate nearly any task, freeing you to excel at what truly matters: creating, collaborating, and achieving greatness.

# Intelligent-Precise-Versatile

The Performance Advanced Cobot (PAC) is a high-end industrial collaborative robot that integrates autonomous driving technology and Industry 4.0 standards. With advanced environment mapping, autonomous path planning, intelligent obstacle avoidance, environment and object recognition, as well as voice control technology, PAC Series can easily complete various tasks, including object handling, grasping, assembly, machine tending, etc. This robot is widely used in flexible Smart Manufacturing, Lab Testing, Inspection, Material Sorting and other scenarios, helping enterprises improve production efficiency and achieve intelligent transformation and upgrading.

# Performance Industrial Control of the Control of th



### **Precise**

±0.05mm

Highest Repeat Positioning Accuracy

±0.13mm

**3D Vision Spatial Compensation Accuracy** 

# Original Factory Integration, Complete Technology Independence

Mobile base and arm, visual sensors are all developed by Li-Gong, using the same controller for control, different from other integrated assemblies and multiple controllers, achieving seamless connection and high integration.





### **Extensive Application Scenarios**



Loading & Unloading



Material Handling



**Palletizing** 



**Assembly** 

**Experimental** Operation

### Intelligent

### **TOS Operating System**

Integrates the original four independent modules into one harmonized controling system. Hand (robotic arm), Foot (AMR), Eye (vision), Brain (AI)















Data Interconnection with other production equipments

Resolve the problem of data/information isolation



### **Autonomous Navigation**

Actively avoiding obstacles and optimize path planning in real time

# Easy \_\_\_\_\_



# 3 steps to add a new task

- → Create Map
- → Mark Points
- → Add to Mission Queue

# 5 minutes to create a complex job

2 sets of logical judgement + 8 actions

# 30 minutes to master operation

### Hand-base Collaboration Graphical Programming

### **0-code graphical** construction tasks

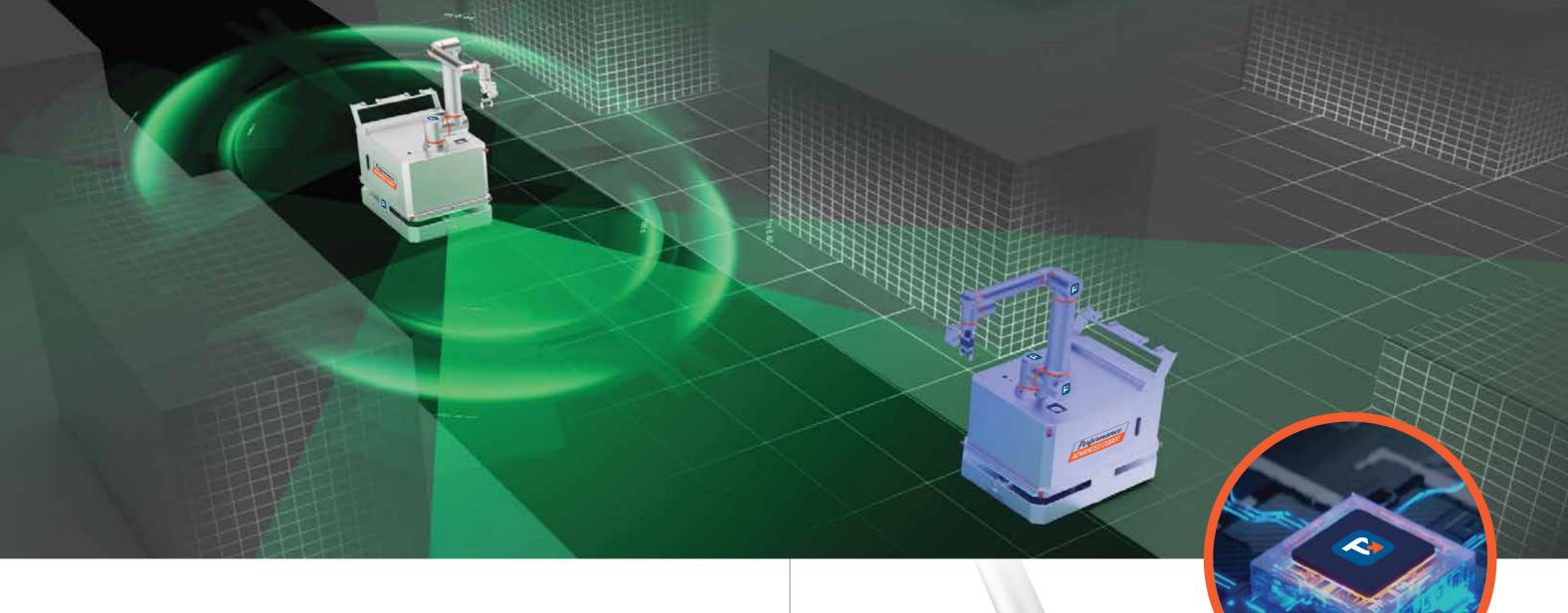
Users can quickly create and adjust the program and tasks of the robot armand base without writing code, reducing the learning difficulty and improving the efficiency of use.





# **Voice Commands Remote Control**

Cross-space, remote voice control, understanding natural language, and executing tasks through voice commands.



### Safe

# **Human-Robot collaboration Safe and Controllable**

Passed TÜV and SGS safety certification, ensuring the safety and stability of the robot

### Convenient

# Various Interfaces Strong Extensibility

Provide multiple IO interfaces and various communication protocols, making it easy for developers to quickly develop customized applications to meet various operation needs.

# **Seamless Battery Replacement Continous Endurance**

After choosing the battery kit, Performance Advanced Cobot can replace the battery without powering off and hot starting, improving the robot's work efficiency



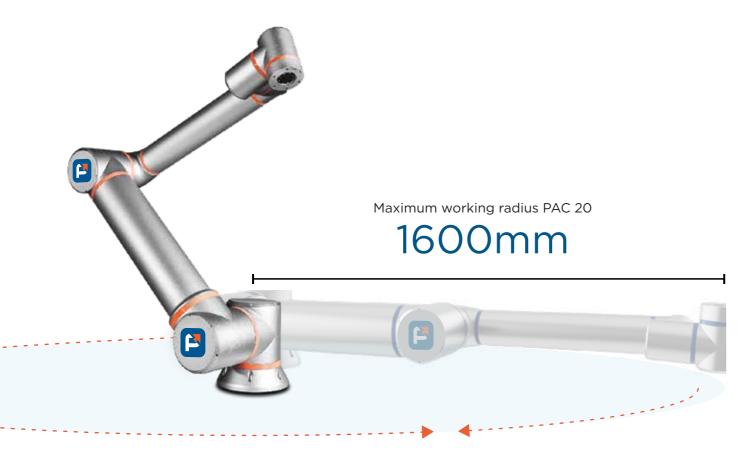
# Performance Advanced Cobot

The PAC Series is a kind of collaborative industrial robot which can be widely used in machine tool loading and unloading, assembly, stacking, handling, welding and other applications. It has different load capacities of **5~32kg** and the working radius can reach **1600mm**. It is an ideal tool to help manufacturing users reduce costs and increase efficiency.



### Safe & Reliable \_\_\_\_\_

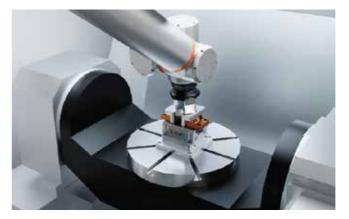
The product has passed EN ISO 13849-1 2015(PL = d, CAT 3) and EU CE certification, and supports level 10 collision detection and sensor safety detection without safety protection.



### High Protection Regirements \_\_\_\_\_



### Accurate & Stable \_\_\_\_\_



Repeated positioning accuracy can reach **±0.02mm** Can work continuously and with high precision for a long time

### Easy to Use \_\_\_\_\_



O code programming, full graphical interaction

### Widely Used \_\_\_\_\_



Stacking



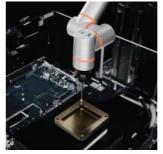
**Loading & Unloading** 



Polishing



Painting



**Assembly** 



Welding

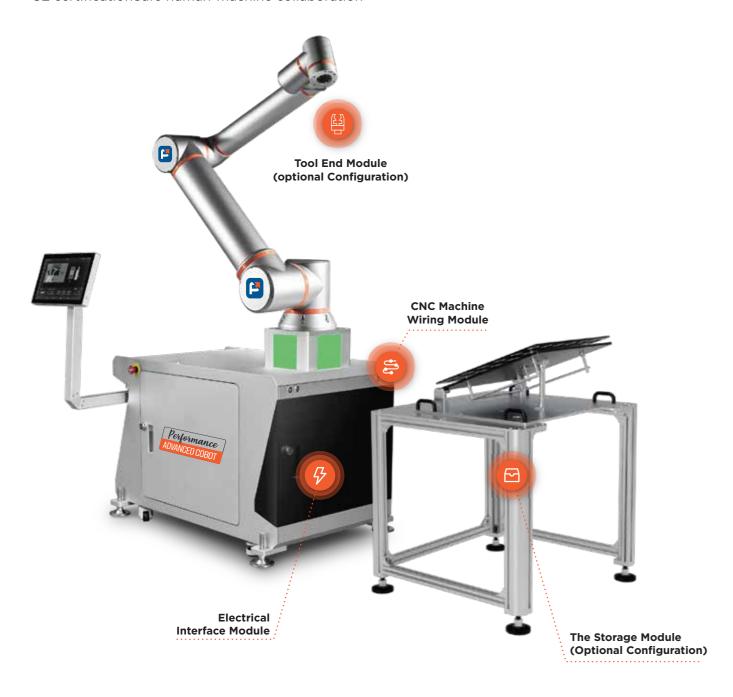


**Experimental Operation** 



### Safe & Reliable

CE certificationSafe human-machine collaboration



### **Wide Applicability**

Modular design; Multiple dockers; Meet the processing needs of different part shapes



Gotron



Zerotron





Chesstron Laddertron

### **Supporting A Wide Range of Applications**

Compatible with different brands and types of production equipments



### Complete

### **Clamping Solutuion**

Providing workpiece clamping products and robots' end-of-arm tooling. Non-standard custom clamping design services are also offered to meet special process requirements.



### **End-of-arm Tooling for Robots**



**In-machine Tooling and Clamping System** 



### Real-time Reporting

Real-time collection and aggregation of production data for visualized data management

### **Easy**

### **XOS Operating System**

Graphical interaction for easy entry-level operation; Input product information and start production with one click





### **Drawing and Process Viewing**

Drawings and process files can be check online through the XOS human-machine control system



### **Ai Capability**

Utilizes computer vision, deep learning, various optimization algorithms, and model libraries for workpiece and process recognition and management



### **Efficient**

# 1min

**Product Changeover** 

# 15mins

Redeploy

# 120mins

Training



### **Fast Deployment**

Finish deployment andtraining on-site within 2 days



### **Quick Response**

Remote technical support, efficient operation and maintenance



# ENGINEERED FOR YOUR SUCCESS





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