

RECOMMENDED INDUSTRIES

AUBO collaborative robots are designed for a variety of industrial processes and can be operated with simple training.



3C



Automobile



Hardware and Household Appliances



Sanitary Appliances for Kitchens and Bathrooms



Chemical Products for Daily Use



New Retail



Catering



Medical Health



Logistics



Scientific Research and Education



Others

TYPICAL PROCESS

Industrial	Pick & Place	Assembly	Bagging & Palletizing	Screwing	Polishing & grinding
	Injection Molding	Gluing	Inspection	Soldering	
New-retail	Ice Cream Maker	Beverage Maker	Liquor Maker	Catering Robot	Kitchen Robot
Medical Health	Massage Robot	Auxiliary Puncture	Scanning	Moxibustion	
Compound Robot	Logistics Sorting	Pick & Place	Inspection		
Scientific Research and Education	Intelligent Production Line	Scientific Research and Development	Discipline Construction	Education Platform	

APPLICATION CASES

INDUSTRIAL FIELD





Automatic 3D inspection



Inspection of parts



Inspection of mobile phones



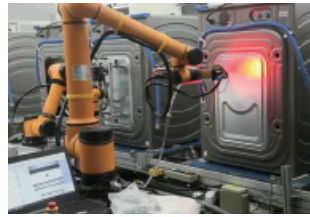
Appearance inspection of auto parts



Inspection of circuit boards



Instrument assembly



Assembly and screwing of white household appliances



Rubber assembly of auto electronic control systems



Intelligent assembly of auto parts



Welding



Gluing of vehicle windows



Stacking of packing boxes



Vacuum cup stretching line



Frame coating



Pick & Place of injection molding machines



Pick & Place of machine tools

APPLICATION CASES



NEW RETAIL / SERVICES



Latte art robot



Smart restaurant



Milk tea workstation



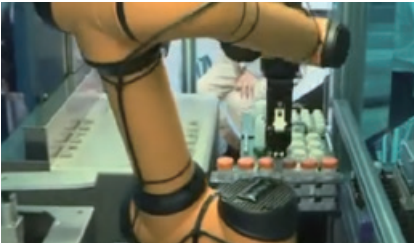
HEALTHCARE



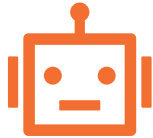
Massage robot



Tooth implantation robot



Reagent testing



COMPOUND ROBOT



Inspection Robot



Intelligent archives



Vehicle inspection and maintenance



RESEARCH AND EDUCATION



Robot with digital twin technology



Music box assembly line



Education and training platform



OTHER FIELDS



Agricultural picking



High-voltage distribution cabinet operation



Hygiene & cleaning

AUBO
ROBOTICS

www.aubo-robotics.cn

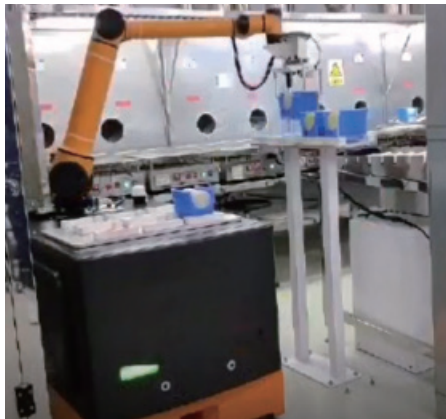
APPLICATION CASES

Compound Robot

Intelligent Workshop Logistics in Semiconductor Industry

This case is applied to the grinding workshops of semiconductor manufacturing enterprises. AUBO collaborative robot integrating AGV can realize automatic handling, pick & place in the process segments of waxing, rough grinding, fine grinding, hard polishing, soft polishing and cleaning at grinding stations.

This production line has a high return on investment with a payback period of 2.5 years. It can reduce about 46% of workshop employees and improve the total production capacity by 5%. It has high extendibility; after modification, the equipment can also be relocated only by adding a AGV. It improves the management level and efficiency of automatic production, and can meet the requirements on full-capacity production and follow-up upgrading of workshops.



Industrial

Water Pump Assembly Line

In domestic traditional production, water pumps are produced artificially or with special machines, which is relatively appropriate in case of a single product. This project is a demonstration line for automatic assembly of water pumps with human-machine collaboration, and is a typical application scenario of collaborative robots. With repeatability of $\pm 0.05\text{mm}$, AUBO collaborative robots can complete high-precision work continuously for a long time, thus greatly enhancing the production yield.

The whole production line can realize such processes as product pick & place, assembly, screwing, packing and stacking, and can minimize artificial procedures according to the existing production scenarios of small batches, multiple varieties, and many batches. AUBO collaborative robots are featured by flexible deployment and convenient line change, etc., and modular design is adopted in each procedure of the automatic line, which can be used in the production of various water pumps, providing convenience for enterprises to arrange production flexibly.



Medical Health

Massage Robot

In the traditional field of physiotherapy and massage services, re-adaption is always necessary due to high personnel turnover and high labor costs, and experience feeling and effects are usually affected by service personnel' s different operation level. AUBO, together with its partners, has pioneered the application of collaborative robots in the field of physiotherapy and massage, helping enterprises to save labor costs.

It can adjust the diagnosis and therapy energy output automatically according to diagnosis and therapy results, complete massage synchronously according to customers' force preference, and memorize the massage trajectory automatically, so as to ensure individualized setting for different people all over the country.

Effects and experience feeling are not affected by different service personnel, and robots can compute the respiratory frequency according to big data so as to ensure safe, temperature-controlled, efficient and standard services in the full process.

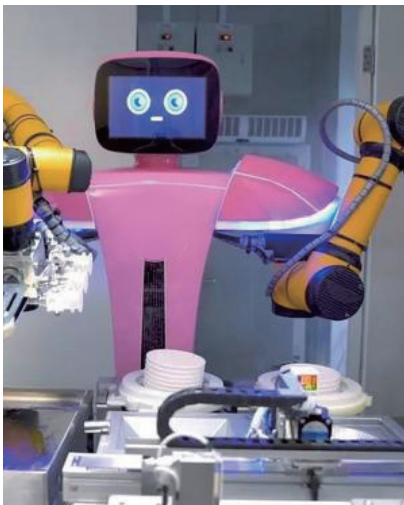


New-retail

Dual-Arm Hamburger Robot

In smart catering industry, AUBO has started business operation officially by cooperating with many restaurants at present. In addition to hamburger robots, the application of robots in restaurants includes stir-fry robots, soup rice robots, drinks robots, frying robots, dessert robots and meals-delivery robots, etc.

In this case, two sets of AUBO i3 products are installed inversely, which can be compatible with two mechanical arms to make hamburgers at the same time. After a customer places an order by scanning the QR code, the upper computer sends a signal to the mechanical arms to start the making of hamburger. One mechanical arm mainly grabs bread pieces from the material silo and sends them to the heating furnace, and cooperates with the sauce machine to pour the sauce onto the heated bread pieces; the other mechanical arm takes vegetables and returns the tray. Then, the mechanical arms complete the combination of the upper and lower pieces of bread. After packing, the mechanical arm places the packed hamburger onto the conveyor belt. The customer can scan the QR code to open the pickup window. Here, the purchase process is completed.



APPLICATION CASES

Industrial

Frame coating

AUBO collaborative robots have the function of drag&teach. The operator can drag the robot joints directly, move to the ideal posture and record it. Then the robot can work automatically according to the path. The worker do not need too much robot operation knowledge to complete the work, which is simple and efficient.

In this case, workers drag and teach AUBO collaborative robot to do the frame coating. Coating can cause certain harm to human body. This application protects labors' health better and make labors free from low-value and repetitive job to more creative job.



Industrial

Welding

AUBO collaborative robot now is able to do gas shielded arc welding.

Specific Plugin

Operator could easily set up welding parameters, generate script files and achieve various welding processes in a short time with the help of welding plugin.

Accurate Track

Smooth and accurate moving track for better welded seam.

Better Reach

Able to reach and weld parts at place where human cannot reach.

Labor Saving

Auto operation, release human labor from the harsh welding environment.



Industrial

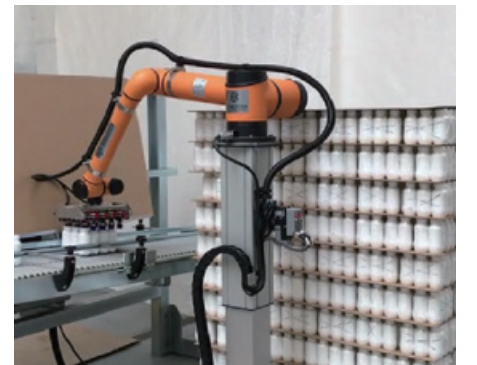
Palletizing

Easy to program, a plugin software is preinstalled to the system, it could simplify the palletizing programming

AUBO robot is working in the package line to palletize packed products to a tray.

High efficiency and accurate positioning, complete task quickly while keep product intact.

The stand can be lifted and lowered so that it can act as the 7th axis, which makes our cobot more applicable in various areas.



Industrial

Assembly and screwing of white household appliances

This case mainly completes the installation and locking of the back plate in the production process of the washing machine. The original production line was manual operation, but currently automated operations are realized through AUBO collaborative robots.

The main function is to realize the automatic assembly and screw lock of the back plate. The application can not only realize intelligent production, but also reduce labor costs and the work intensity, which plays an important role in promoting the development of smart manufacturing in the home appliances industry.

