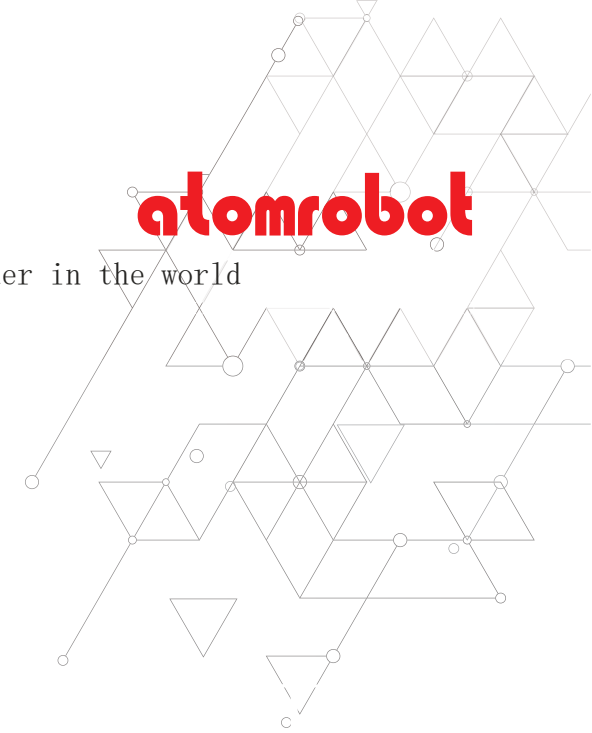




- Concentration Innovation Creativation
- Free Hands With Technology
- Become the most reliable industrial robot service provider in the world

ATOMROBOT

www.atomrobot.ai

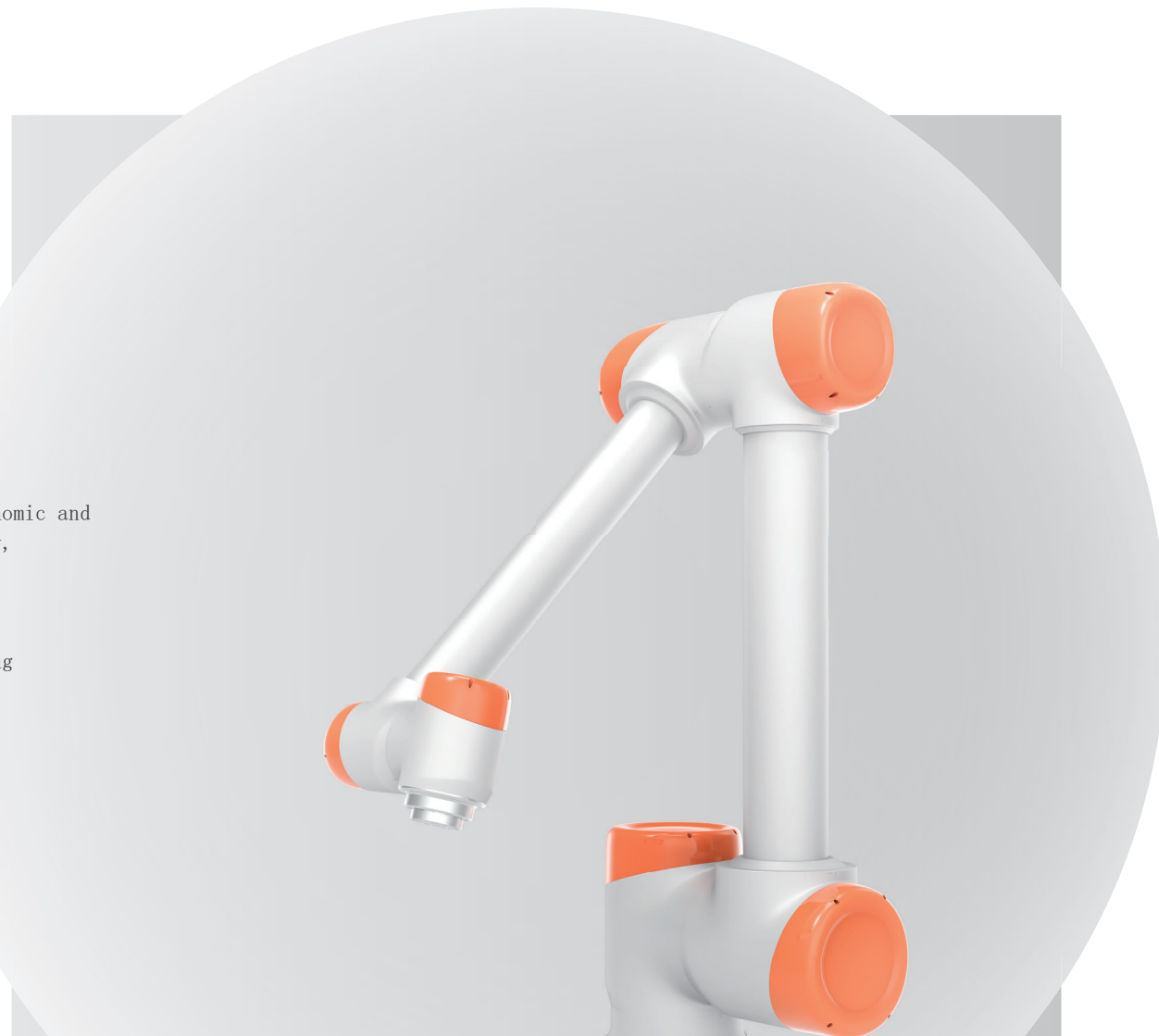
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| Profile



Mission

Free hands with technology



Vision

Become the most reliable industrial robot service provider in the world



Values

Rely on excellent products and services to stay in the market for a long time
Trust each other, take responsibility and move forward
Believe that talents are the source of power to create infinite possibilities
Change the world through continuous innovation

As the leading parallel robot specialist and intelligent manufacturing explorer in the industry, Atomrobot takes " Free hands with technolo-gy" as the mission to focus on the R&D and innovation of parallel Delta robot, high-speed SCARA robot and other intelligent manufacturing technologies. With many years of technical advantages, fully independently researched and developed high-performance general control system, AI+3D vision system and complete and rich core product matrix, the Company has been committing to providing single machines, workstations and automation, intelligent system solutions, process solutions and technical services for integrators in the food, pharmaceutical, daily chemical, 3C, PCB, new energy and other sub-sectors, helping clients to achieve cost reduction and profit increase.

The Company is headquartered in Tianjin, with subsidiaries established in Suzhou, Kunshan, Nanjing, Jiangsu, and Shenzhen in Guang-dong.

Adhering to the brand spirit of “Concentration, Innovation and Ingenuity” , up to now, the Company has served for more than 800 large-scale enterprises and has sold more than 8,000 units/sets. Our business covers more than 20 countries and regions, won the acknowledgment and trust all over the world.

| Honors

★ NATIONAL HIGH-TECH ENTERPRISE ★ TIANJIN GAZELLE ENTERPRISE

75

invention patents

24

software copyrights

69

utility model patents

9

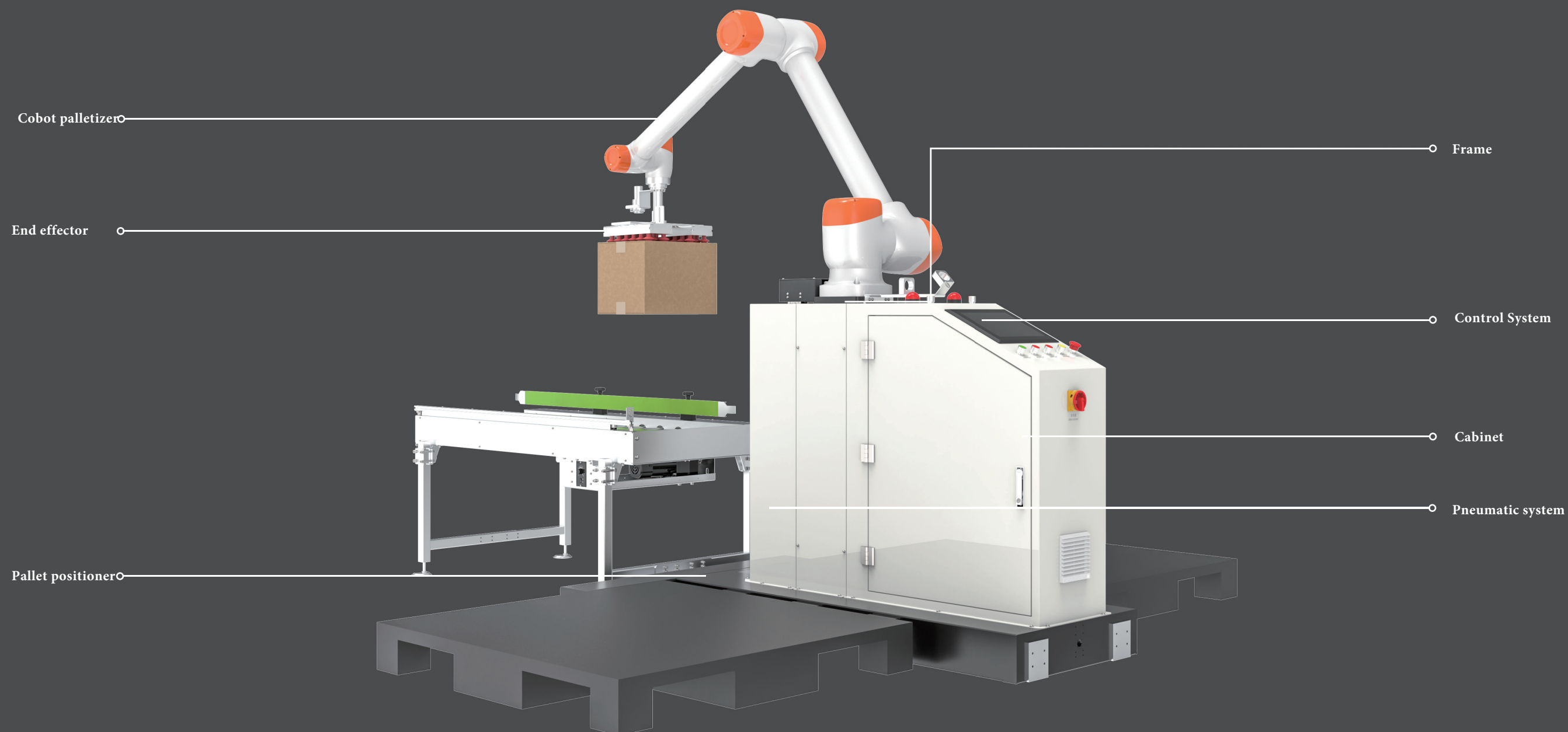
design patents

The Company has successively passed ISO9001 Quality Management Certification, European Union CE Certification and China CR Certification for entire series products of core products of parallel robot.

OVERVIEW

Ease of use redefined

- 2hours for commissioning
- 5minutes for new patterns
- 8-10cases/min
- 800+Palletizing Trajectories
- Max pallet1200mmX1200mm
- Two products palletizing at the same time Labels
- recognition function
- Free switching between single and double boxes



| Highlights



Easy operation

Integrated touch screen interface, anyone can operate with simple training



Flexible production

Multiple functional scenarios switched quickly, human-machine collaboration, dual-machine collaboration, and multi-machine collaboration are available too



Flexible deployment

Integrated design, light and flexible, small footprint; easy to move, installation in a short time



Wide range of applications

Widely used in food, medicine, 3C, daily chemicals, precision installation, product packaging, grinding, handling, welding, assembly, spraying, stacking and other fields.



Safe and stable

Equipped with collision detection, bottom leakage detection and empty box detection functions.



Economical and practical

ROI: 6-12months





LiDAR Sensor

- Safety fence+Light curtain**

- ### Inclined roller conveyor

- ## Modular grippers

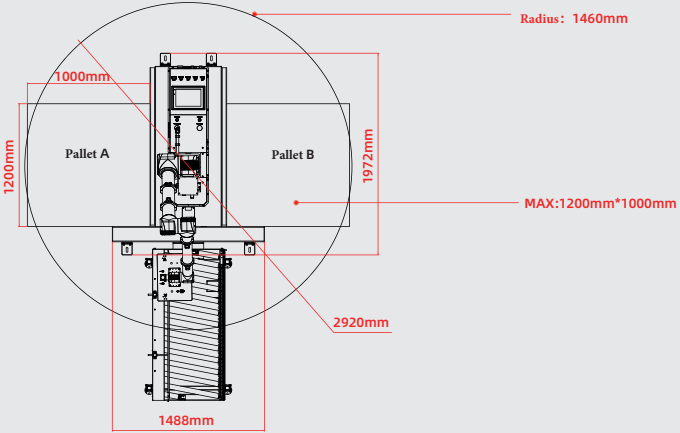
- Accommodate complex application scenarios
- Lightweight, compact space
- Support customization
- Top brand box drop detection
- High stability

Concentration, Innovation and Ingenuity 09/10



AM-30 Series

Parameters

Model	AM-30-G	AM-30-S
Paylaod	30kg	30kg
Working space radius	1460mm	1460mm
Horizontal distance (pallet size)		
Palletizing height	Standard H ₁ =1600mm	Lifting H ₂ =2100mm
Speed	≤7pcs/min	≤7pcs/min
Repeatability accuracy	±0.04mm	±0.04mm
Air consumption	300-500L/min	300-500L/min
Communication	EtherCAT、IO	EtherCAT、IO
IP	IP54	IP54
Temperature	0-50℃	0-50℃
Max power	3.3kw	4KW
Power supply	1 PH 220v/50Hz	1PH 220v/50Hz
Weight	≈370Kg	≈440kg
Footprint	1973*1488mm	1973*1488mm

Cobot palletizer expanded configuration options

Further improve the safety of palletizing, more reliable, convenient and unified solution selection

LiDAR Sensor

- Non-contact, flexible detection distance setting
- Immediate shutdown upon entering the red zone

Safety fence+Light curtain

- Physical protection, safe and reliable
- Stable performance, strong anti-interference ability
- High induction sensitivity
- Long service life

Inclined roller conveyor

- The box automatically moves to the side
- Large height adjustment range
- Various materials available
- Long service life

Modular grippers

- Accommodate complex application scenarios
- Lightweight, compact space
- Support customization
- Top brand box drop detection
- High stability



AM-40-G



Cobot palletizer expanded configuration options

Further improve the safety of palletizing, more reliable, convenient and unified solution selection

LiDAR Sensor

- Non-contact, flexible detection distance setting
- Immediate shutdown upon entering the red zone

Safety fence+Light curtain

- Physical protection, safe and reliable
- Stable performance, strong anti-interference ability
- High induction sensitivity
- Long service life

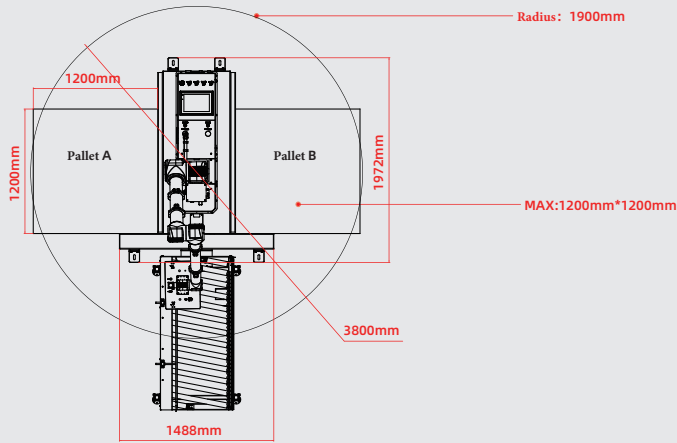
Inclined roller conveyor

- The box automatically moves to the side
- Large height adjustment range
- Various materials available
- Long service life

Modular grippers

- Accommodate complex application scenarios
- Lightweight, compact space
- Support customization
- Top brand box drop detection
- High stability

Parameters

Model	AM-40-G
Paylaod	40Kg
Working space radius	1900mm
Horizontal distance (pallet size)	
Palletizing height	H ₁ =2000mm
Speed	≤10pcs/min
Repeatability accuracy	±0.05mm
Air consumption	600-800L/min
Communication	EtherCAT 、 IO
IP	IP54
Temperature	0-50℃
Max power	6.50KW
Power supply	1PH 220v/50Hz
Weight	≈600Kg
Footprint	2034*1700mm



AM-SG01 Safety Fence



Cobot palletizer expanded configuration options

Further improve the safety of palletizing, more reliable, convenient and unified solution selection

- LiDAR Sensor

 - Non-contact, flexible detection distance setting
 - Immediate shutdown upon entering the red zone
- Safety fence+Light curtain

 - Physical protection, safe and reliable
 - Stable performance, strong anti-interference ability
 - High induction sensitivity
 - Long service life
- Inclined roller conveyor

 - The box automatically moves to the side
 - Large height adjustment range
 - Various materials available
 - Long service life
- Modular grippers

 - Accommodate complex application scenarios
 - Lightweight, compact space
 - Support customization
 - Top brand box drop detection
 - High stability

| Parameters

AM-SG01 Safety Fence	
Specifications	
Installation area (L*W*H)	3940*3085*2000mm
Fence size (L*W*H)	3840*2985*2000mm
Light curtain	2 sets
Curtain height	145-1370mm
Curtain length	2000mm
Curtain Transmitter installation location	Robot base
Curtain Receiver installation location	Fence column
Communication	IO (NPN)
Temperature	0-50℃
Max power	6-16W
Power supply	DC 24V± 10%
Column color	RAL1023
Fence color	RAL9017

Hardware industry

Palletizing&depalletizing solution

Raw production mode

- 1.The products are palletized after produced on the production line;
- 2.The full pallet of products is manually unstacked and entered into the user's inventory system;
- 3.The boxes are stacked on another empty pallet after scanning the code;
- 4.Box weight 20kg, 5 boxes/minute, and unstacked manually.

Solution

- 1.Configure the program for depalletizing with cobot;
2. Pick boxes with suction cups equipped with no return valves;
3. The robot controls the rhythm when placing and conveying, and the code can be scanned during the process;

Optimization effect

1. The robot can easily handle the rapid creation and switching of different box types and patterns with a graphical interface;
2. Equipped with collision detection safety function, it greatly improves safety and reduces accidents;
3. The robot's suction cup strongly absorbs the box and is not easy to damage the carton;
4. Complete the depalletizing and palletizing process quickly and efficiently;
5. Reasonable layout and program, easy to operate;
6. Small footprint, no need fences, easy maintenance.



Pharmaceutical industry

High palletizing solution

Raw production mode

1. Palletizing after placing wooden pallets manually;
2. Product weight is 5-12kg, and palletizing is performed manually in shifts;
3. Wooden pallets are transported to the warehouse by truck, forklift or manual labor;
4. 6 boxes/minute, 10 hours/shift, and three fixed-post workers.

Solution

1. The high palletizing height 2100mm with cobot palletizer;
2. Equipped with an automatic pallet distribution;
3. The high pallets are automatically transported to the warehouse ;
4. The system identifies the product supply rhythm automatically, speed 10 boxes/minute;
5. Turning on the automatic pallet supply and palletizing process can save 2 fixed workers, and 1 person can be changed to a mobile post.

Optimization effect

1. The height of the pallet is increased, max palletizing height is 2100mm with lifting column;
2. Robotic adaptive palletizing with adjustable speed;
3. Equipped with data management information output to achieve closed-loop management;
4. High adaptability, applicable to multi-line fully automatic operation;
5. Small footprint, saving working space and convenient layout.



Food industry

Double boxes palletizing solution

Raw production mode

1. Multiple products and multiple lines are produced on demand, and all personnel are mobile positions;
2. Product weight 4-10kg, production efficiency 8-14 boxes/minute;
3. Short-term caching and storage of products after production;
4. Irregular shifts from 8 to 24 hours, workers are assigned on demand, resulting in an unstable staff structure.

Solution

1. Use mobile collaborative robots for palletizing;
2. Equipped with a universal suction cup, robot can be used for both small and large boxes within the range;
3. Easily handle the rapid creation and switching of different box types and patterns with a graphical interface;
4. Double-box palletizing can be achieved, max speed 16 boxes/minute;
5. Double palletizing positions, one person can complete the palletizing and transferring.

Optimization effect

1. The robot can select single-grip, double-grip, or triple-grip modes according to the size and weight of the box to meet customers' mixed needs of light&fast and heavy&low;
2. The robot can run smoothly without being fixed;
3. The robot base is equipped with a shipping slot, which can be transferred by forklifts;
4. Small footprint, saving working space and convenient layout;
5. No need for fixed-post workers, automatic warning of palletizing progress and status.



Food industry

Big box lifting and palletizing solution

Raw production mode

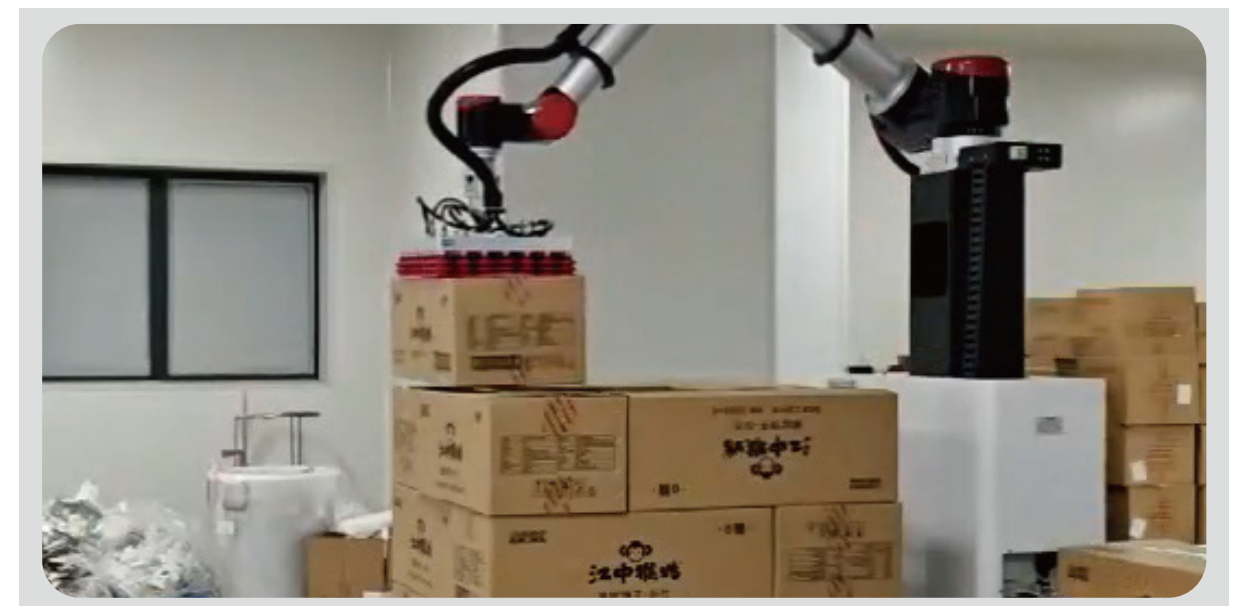
1. Big box: Length 400-600mm, width 300-500mm, height 250-400mm;
2. Box weight 12-20kg, Speed 6-8 boxes/minute;
3. The palletizing high boxes should be within 5 layers, and 4-7 layers for low boxes;
4. High risk of falling and accident during manual handling and palletizing, 2 people are needed at least.

Solution

1. Max palletizing height 2100mm with cobot palletizer;
2. The large suction cup design improves the stability of big boxes and is compatible with small boxes;
3. The rated load of the robot arm is 30kg, covering the weight of all products;
4. The suction cup is equipped with warning of insufficient air pressure to prevent box falling due to insufficient energy supply;
5. Equipped with radar protection, the machine will be warned to shut down when people enter the radar range,

Optimization effect

1. Flexibly pick big boxes for palletizing;
2. Air pressure adsorption safety warning to prevent box drop;
3. Safety radar protection, further improving safety protection;
4. Heavy load capacity, compatible with multiple specifications;
5. The palletizing program can be freely called and changed, which makes it more adaptable.



PARTNERS



SERVICE

Service philosophy



Client FIRST

Service FIRST

Service pursuit



Response within **2** hours



Arrive within **24** hours



Solve within **72** hours

- For a long time, we have providing "Extreme Service" to clients as the core value of Atom Robot. To meet all-round needs of clients is the promise of Atom Robot to make efforts to practice. We insist all the time the after-sales service to response within 2 hours, arrive within 24 hours and solve your problem within 72 hours.
- We are committed to providing clients with perfect service network, to maintain close communication with clients at all times, to ensure that each set of robot system sold can run stably for long time.
- The Call Center provides clients with 24-hour all-round services. We will communicate attentively and answer your questions timely. We continuously improve operation rate of equipment through the best after-sales services, escorting the production of users.
- We have sufficient spare parts inventory, advanced warehouse management system, and timely and fast distribution system, to eliminate clients' after-sales worries.



24X7
Service Hotline
TEL: 400-653-7789



Real-time remote operation and maintenance
Once a device fails, the cloud big data will issue an early warning, allowing technicians to diagnose and repair it in real time



CTO
Any comments or suggestions, email to: cto@tjchenxing.com

