

Collaborative Palletizing Workstation



Warsonco Intelligent Technology(Guangdong) Co., Ltd

Shenzhen Warsonco Supply Chain Ltd

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Warsonco Intelligent Technology (Guangdong) Co., Ltd.

Shenzhen Warsonco Supply Chain Ltd

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Company Profile

Established in 2011, Warsonco Intelligent Technology (Guangdong) Co., Ltd. is a national high-tech enterprise integrating research and development, production and sales of robots and related products. Warsonco Technology is first-class, automation solution provider with the core technology focusing on industrial robot. Our products cover parallel robots, full series of Collaborative Robots industrial vision and robotic control systems etc., and the products are widely used in many fields such as pharmaceuticals, 3C, food, packaging, daily chemical and others.

From taking the footprint in China to moving globally now, Warsonco Technology has always been customer-centered, with high standard professionalism, customized the unique tailor-made R&D solution for industry chain robots, becoming a model for the application of industrial robots. Our products are exported to more than 50 countries and regions such as Europe, America, Middle East and Southeast Asia.

By focusing on sustainable development, excellent quality, value and service to meet customers' needs, while respecting the society and natural environment, Warsonco Technology is becoming an enterprise that makes employees proud of being a member.

50⁺

Products exported to over 50 countries and regions

180⁺

Warsonco has accumulated more than 80 patents and over 100 other honors.

4600⁺

It has served more than 4,600 customers.

Collaborative palletizing workstation

The world has entered the era of industrial 4.0 intelligent factory. As the largest industrial robot application market in the world, the palletizing robot industry develops rapidly. Effective combination and interaction among robots, human beings and working environment has become a trend in the future, and will be a great boost to the development of manufacturing industry in China.

- >>> Installation and commissioning can be completed within 2 hours.
- >>> New path set-up within 5 minutes.
- >>> 8-12 boxes can be palletized per minute.
- >>> Up to 800 palletizing paths can be set.
- >>> Maximum pallet size 1500mm x 1500mm
- >>> Two products can be palletized simultaneously.
- >>> With label orientation function.



Preparation → Palletizing settings
 → Palletizing A → Palletizing B
 → Done

Collaborative Robot

The world's best-in-class heavy-load collaborative robot. Safe, Efficient, and Cost-effective.

Frame Assembly

Portable mobile base for more convenient application; 7th axle lifting column.

End effector

Sleek & Compact Design, High Suction, Anti-Drop, Patent Product.

Pallet Positioning System

Mechanical Pallet Positioning System, Simple and Practical.

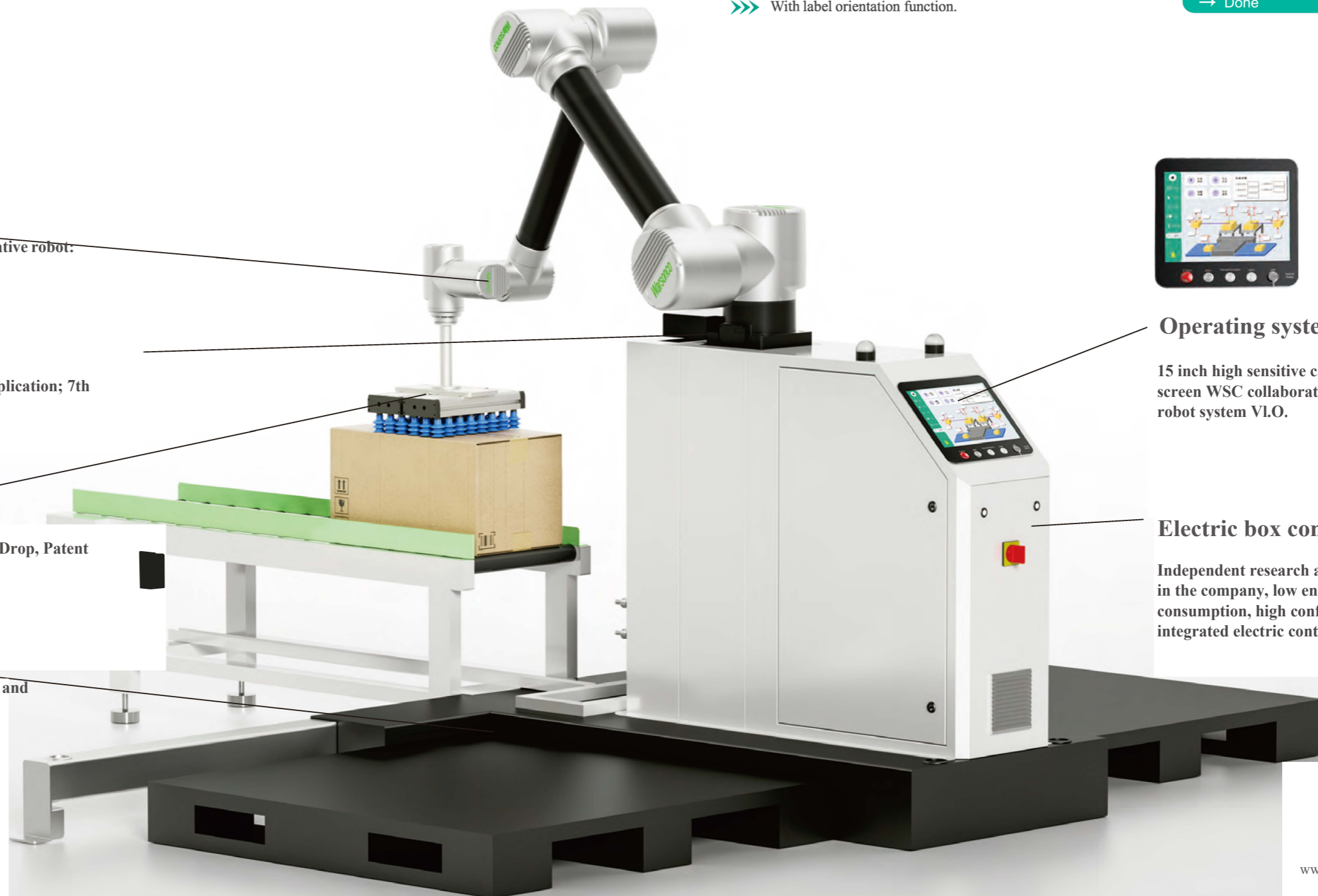


Operating system

15 inch high sensitive capacitive touch screen WSC collaborative palletizing robot system V1.0.

Electric box control cabinet

Independent research and development in the company, low energy consumption, high configuration, integrated electric control cabinet.



Advantages of Collaborative Palletizer



Simple programming

Visual programming is simple and efficient, to use the robot without having of be proficient in a programming language. The programming can be learned in half an hour and simple programming can be completed in 1 hour.



Safety and stability

Industrial grade force-sensor with high reliability and safety; Support 10-level collision detection and sensor safety detection; without loss of safety function in case of single fault.



Flexible deployment

Integrated design, light and flexible, small footprint area; Workstation deployment of new task setting is simple, quick and efficient.



Wide applications

Widely used in food, pharmaceuticals, 3C, daily chemistry, e-commerce and other industries.



Flexible Production

With fast switching of various functional scenarios, flexible production can be realized by human-machine cooperation, dual-equipment cooperation and multi-equipment cooperation.



Economic and practical

Average recovery of investment within 6-12 months.

Pro Series



Easy to operate

Visual programming is simple and efficient, to use the robot without having or be proficient in a programming language.

The programming can be learned in half an hour and simple programming can be completed in 1 hour.



Flexible deployment

Integrated design, light and flexible, small footprint area; Workstation deployment of new task setting is simple, quick and efficient.



Wide Application

Widely used in food, pharmaceuticals, 3C, daily chemistry, e-printing and other industries.



Product Parameters

Model	WSC-MD16-PRO	WSC-MD16-PRO-HS
Robot Load	16KG	16KG
Working Radius	1900mm	1900mm
Horizontal Distance (Pallet Specification)		
Palletize Height	Max: 2100mm	Max: 2100mm
Palletize Speed	<9pcs/min	<12pcs/min
Repeat Positioning Accuracy	±0.04mm	±0.04mm
Communication Mode	TCP/IP	TCP/IP
Level Ip	Ip54	Ip54
Temperature Range	0-55°C	0-55°C
Maximum Power Consumption	2.4kw	2.4kw
Power Supply	Single phase 220v/50HZ	Single phase 220v/50HZ
Whole Machine Weight	≈350kg	≈350kg
Floor Area	1505*1716mm	1505*1716mm
Equipment Operating Area	3150*1716mm	3150*1716mm
Minimum Room Height	3.2m	3.2m

Optional setting for palletizer

Hwtj gt'uchgv 'o gcuwtg'ht'r cngw gt0

Laser Radar

- No contact, flexible distance detection
- Alarm & slow down when near yellow zone
- Immediate shutdown when enter into red zone

Laser Sensor

- Stable performance, strong anti-interference
- High sensitivity & fast response
- Long service life

Safety Fence

- Physical protection, reliable safety

>>> Product Parameters

Model	WSC-MD20-PRO	WSC-MD20-PRO- HS
Robot Load	20KG	20KG
Working Radius	1900mm	1900mm
Horizontal Distance (Pallet Specification)		
Palletize Height	Max:2100mm	Max:2100mm
Palletize Speed	<9pcs/min	<12pcs/min
Repeat Positioning Accuracy	±0.04mm	±0.04mm
Communication Mode	TCP/IP	TCP/IP
Level Ip	Ip54	Ip54
Temperature Range	0-55°C	0-55°C
Maximum Power Consumption	2.6kw	2.6kw
Power Supply	Single phase 220v/50HZ	Single phase 220v/50HZ
Whole Machine Weight	≈350kg	≈350kg
Floor Area	1505*1716mm	1505*1716mm
Equipment Operating Area	3150*1716mm	3150*1716mm
Minimum Room Height	3.2m	3.2m

Optional setting for palletizer

Optional settings for palletizer:

Laser Radar

- No contact, flexible distance detection
- Alarm & slow down when near yellow zone
- Immediate shutdown when enter into red zone

Laser Sensor

- Stable performance, strong anti-interference
- High sensitivity & fast response
- Long service life

Safety Fence

- Physical protection, reliable safety

>>> Product Parameters

Model	WSC-MD25-PRO	WSC-MD25-PRO- HS
Robot Load	25KG	25KG
Working Radius	1900mm	1900mm
Horizontal Distance (Pallet Specification)		
Palletize Height	Max:2100mm	Max:2100mm
Palletize Speed	<9pcs/min	<12pcs/min
Repeat Positioning Accuracy	±0.04mm	±0.04mm
Communication Mode	TCP/IP	TCP/IP
Level Ip	Ip54	Ip54
Temperature Range	0-55°C	0-55°C
Maximum Power Consumption	2.8kw	2.8kw
Power Supply	Single phase 220v/50HZ	Single phase 220v/50HZ
Whole Machine Weight	≈350kg	≈350kg
Floor Area	1505*1716mm	1505*1716mm
Equipment Operating Area	3150*1716mm	3150*1716mm
Minimum Room Height	3.2m	3.2m

Optional setting for palletizer

Optional settings for palletizer:

Laser Radar

- No contact, flexible distance detection
- Alarm & slow down when near yellow zone
- Immediate shutdown when enter into red zone

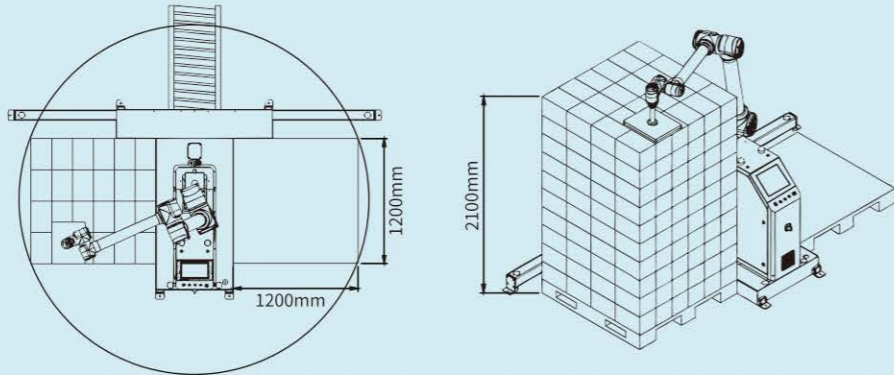
Laser Sensor

- Stable performance, strong anti-interference
- High sensitivity & fast response
- Long service life

Safety Fence

- Physical protection, reliable safety

Product Parameters

Model	WSC-MD30-PRO
Robot Load	30KG
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletize Height	Max:2100mm
Palletize Speed	<9pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Mode	TCP/IP
Level Ip	Ip54
Temperature Range	0-55°C
Maximum Power Consumption	3kw
Power Supply	Single phase 220v/50HZ
Whole Machine Weight	≈350kg
Floor Area	1505*1716mm
Equipment Operating Area	3150*1716mm
Minimum Room Height	3.2m

Optional setting for palletizer

Further safety measure for palletizer.

Laser Radar

- No contact, flexible distance detection
- Alarm & slow down when near yellow zone
- Immediate shutdown when enter into red zone

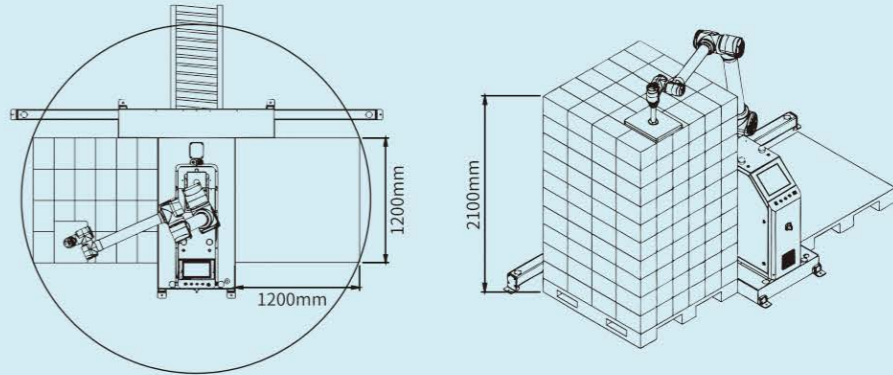
Laser Sensor

- Stable performance, strong anti-interference
- High sensitivity & fast response
- Long service life

Safety Fence

- Physical protection, reliable safety

Product Parameters

Model	WSC-MD40-PRO
Robot Load	40KG
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletize Height	Max:2100mm
Palletize Speed	<7pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Mode	TCP/IP
Level Ip	Ip54
Temperature Range	0-55°C
Maximum Power Consumption	3.5kw
Power Supply	Single phase 220v/50HZ
Whole Machine Weight	≈500kg
Floor Area	1505*1716mm
Equipment Operating Area	3150*1716mm
Minimum Room Height	3.3m

Optional setting for palletizer

Further safety measure for palletizer.

Laser Radar

- No contact, flexible distance detection
- Alarm & slow down when near yellow zone
- Immediate shutdown when enter into red zone

Laser Sensor

- Stable performance, strong anti-interference
- High sensitivity & fast response
- Long service life

Safety Fence

- Physical protection, reliable safety

Max Series



Easy to operate

Visual programming is simple and efficient, to use the robot without having to be proficient in a programming language.

The programming can be learned in half an hour and simple programming can be



Flexible deployment

Integrated design, light and flexible, small footprint area; Workstation deployment of new task setting is simple, quick and efficient.



Wide Application

Widely used in food, pharmaceuticals, 3C, daily chemistry, e-printing and other industries.



Product Parameters

Model	WSC-MD16-MAX	WSC-MD16-MAX-HS
Robot Load	16KG	16KG
Working Radius	1900mm	1900mm
Horizontal Distance (Pallet Specification)		
Palletize Height	Max: 2400mm	Max: 2400mm
Palletize Speed	<9pcs/min	<12pcs/min
Repeat Positioning Accuracy	±0.04mm	±0.04mm
Communication Mode	TCP/IP	TCP/IP
Level Ip	Ip54	Ip54
Temperature Range	0-55°C	0-55°C
Maximum Power Consumption	3.2kw	3.2kw
Power Supply	Single phase 220v/50HZ	Single phase 220v/50HZ
Whole Machine Weight	≈350kg	≈350kg
Floor Area	1505*1716mm	1505*1716mm
Equipment Operating Area	3550*1716mm	3550*1716mm
Minimum Room Height	3.2m	3.2m

Optional setting for palletizer

Optional settings for palletizer:

- | | | |
|---|--|---|
| <p>Laser Radar</p> <ul style="list-style-type: none"> • No contact, flexible distance detection • Alarm & slow down when near yellow zone • Immediate shutdown when enter into red zone | <p>Laser Sensor</p> <ul style="list-style-type: none"> • Stable performance, strong anti-interference • High sensitivity & fast response • Long service life | <p>Safety Fence</p> <ul style="list-style-type: none"> • Physical protection, reliable safety |
|---|--|---|

>>> Product Parameters

Automation solution provider

Model	WSC-MD16-MAX	WSC-MD16-MAX-HS
Robot Load	20KG	20KG
Working Radius	1600mm	1600mm
Horizontal Distance (Pallet Specification)		
Palletize Height	Max: 2100mm	Max: 2100mm
Palletize Speed	<9pcs/min	<12pcs/min
Repeat Positioning Accuracy	±0.04mm	±0.04mm
Communication Mode	TCP/IP	TCP/IP
Level Ip	Ip54	Ip54
Temperature Range	0-55°C	0-55°C
Power Supply	Single phase 220v/50HZ	Single phase 220v/50HZ
Whole Machine Weight	≈350kg	≈350kg
Floor Area	1505*1716mm	1505*1716mm
Minimum Room Height	3m	3m

Optional setting for palletizer

Optional settings for palletizer:

Laser Radar

- No contact, flexible distance detection
- Alarm & slow down when near yellow zone
- Immediate shutdown when enter into red zone

Laser Sensor

- Stable performance, strong anti-interference
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- Long service life

Safety Fence

- Physical protection, reliable safety

>>> Product Parameters

Automation solution provider

Model	WSC-MD20-MAX	WSC-MD20-MAX-HS
Robot Load	20KG	20KG
Working Radius	1900mm	1900mm
Horizontal Distance (Pallet Specification)		
Palletize Height	Max: 2400mm	Max: 2400mm
Palletize Speed	<9pcs/min	<12pcs/min
Repeat Positioning Accuracy	±0.04mm	±0.04mm
Communication Mode	TCP/IP	TCP/IP
Level Ip	Ip54	Ip54
Temperature Range	0-55°C	0-55°C
Power Supply	Single phase 220v/50HZ	Single phase 220v/50HZ
Whole Machine Weight	≈350kg	≈350kg
Floor Area	1505*1716mm	1505*1716mm
Minimum Room Height	3.2m	3.2m

Optional setting for palletizer

Optional settings for palletizer:

Laser Radar

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- Immediate shutdown when enter into red zone

Laser Sensor

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- Long service life

Safety Fence

- Physical protection, reliable safety

Product Parameters

Model	WSC-MD25-MAX	WSC-MD25-MAX-HS
Robot Load	25KG	25KG
Working Radius	1600mm	1600mm
Horizontal Distance (Pallet Specification)		
Palletize Height	Max: 2100mm	Max: 2100mm
Palletize Speed	<9pcs/min	<12pcs/min
Repeat Positioning Accuracy	±0.04mm	±0.04mm
Communication Mode	TCP/IP	TCP/IP
Level Ip	Ip54	Ip54
Temperature Range	0-55°C	0-55°C
Overall Power Requirement	3.4kw	3.4kw
Power Supply	Single phase 220v/50HZ	Single phase 220v/50HZ
Whole Machine Weight	≈350kg	≈350kg
Floor Area	1505*1716mm	1505*1716mm
Overall Footprint	3550*1716mm	3550*1716mm
Minimum Room Height	3m	3m

Optional setting for palletizer

Optional settings for palletizer:

Laser Radar

- No contact, flexible distance detection
- Alarm & slow down when near yellow zone
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Laser Sensor

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Safety Fence

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Product Parameters

Model	WSC-MD25-MAX	WSC-MD25-MAX-HS
Robot Load	25KG	25KG
Working Radius	1900mm	1900mm
Horizontal Distance (Pallet Specification)		
Palletize Height	Max: 2400mm	Max: 2400mm
Palletize Speed	<9pcs/min	<12pcs/min
Repeat Positioning Accuracy	±0.04mm	±0.04mm
Communication Mode	TCP/IP	TCP/IP
Level Ip	Ip54	Ip54
Temperature Range	0-55°C	0-55°C
Overall Power Requirement	3.4kw	3.4kw
Power Supply	Single phase 220v/50HZ	Single phase 220v/50HZ
Whole Machine Weight	≈350kg	≈350kg
Floor Area	1505*1716mm	1505*1716mm
Overall Footprint	3550*1716mm	3550*1716mm
Minimum Room Height	3.2m	3.2m

Optional setting for palletizer

Optional settings for palletizer:

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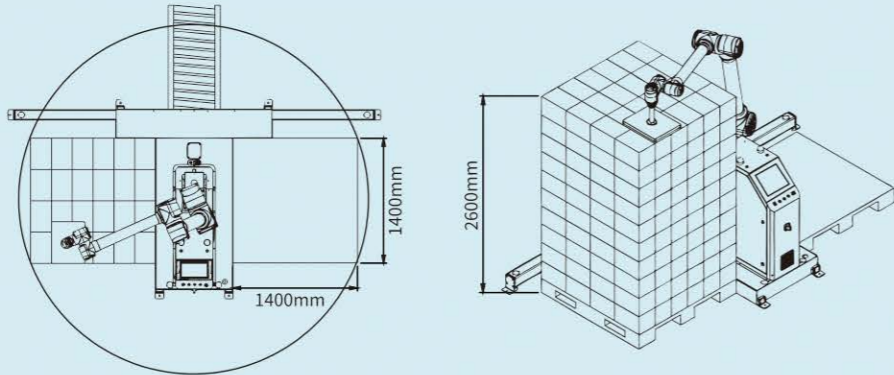
Laser Sensor

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Safety Fence

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>>> Product Parameters

Model	WSC-MD30-MAX
Robot Load	30KG
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletize Height	Max: 2400mm
Palletize Speed	<9pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Mode	TCP/IP
Level Ip	Ip54
Temperature Range	0-55°C
Motor Power	3.5kw
Power Supply	Single phase 220v/50HZ
Whole Machine Weight	≈350kg
Floor Area	1505*1716mm
Overall Dimensions	3550*1716mm
Minimum Room Height	3.2m

Optional setting for palletizer

Optional settings for the palletizer include:

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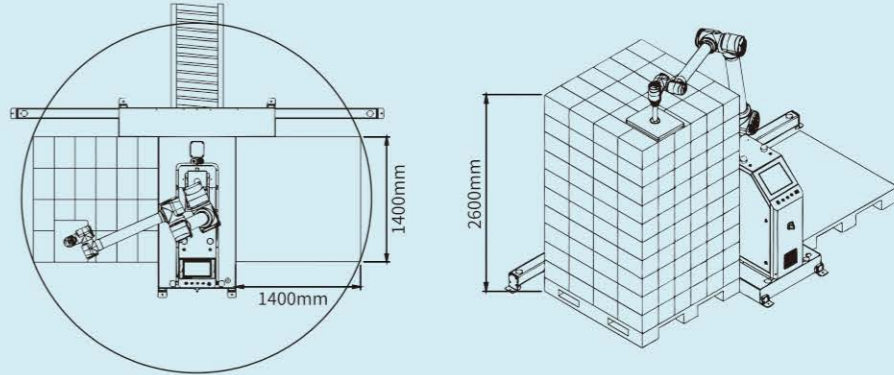
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>>> Product Parameters

Model	WSC-MD40-MAX
Robot Load	40KG
Working Radius	1700mm
Horizontal Distance (Pallet Specification)	
Palletize Height	Max: 2100mm
Palletize Speed	<7pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Mode	TCP/IP
Level Ip	Ip54
Temperature Range	0-55°C
Motor Power	4kw
Power Supply	Single phase 220v/50HZ
Whole Machine Weight	≈ 500kg
Floor Area	1505*1716mm
Overall Dimensions	3250*1716mm
Minimum Room Height	3.2m

Optional setting for palletizer

Optional settings for the palletizer include:

Laser Radar

- No contact, flexible distance detection
- Alarm & slow down when near yellow zone
- Immediate shutdown when enter into red zone

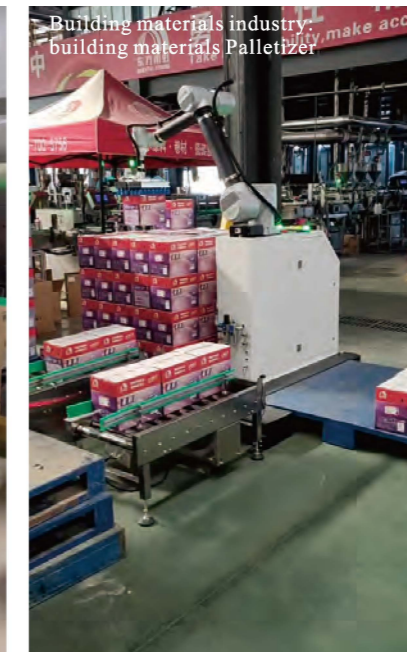
Laser Sensor

- Stable performance, strong anti-interference
- High sensitivity & fast response
- Long service life

Safety Fence

- Physical protection, reliable safety

Collaborative Palletizer Case Study



Cooperating partners

➤➤➤ You could trust us as much as our customers do.
We serve 4000+ enterprises in more than 70 cities in China and in the world.

