www.hcnc-group.com

HICNC ROBOTICS

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HiCNC

工业协作码垛工站

Industrial Collaborative Palletizing Workstation

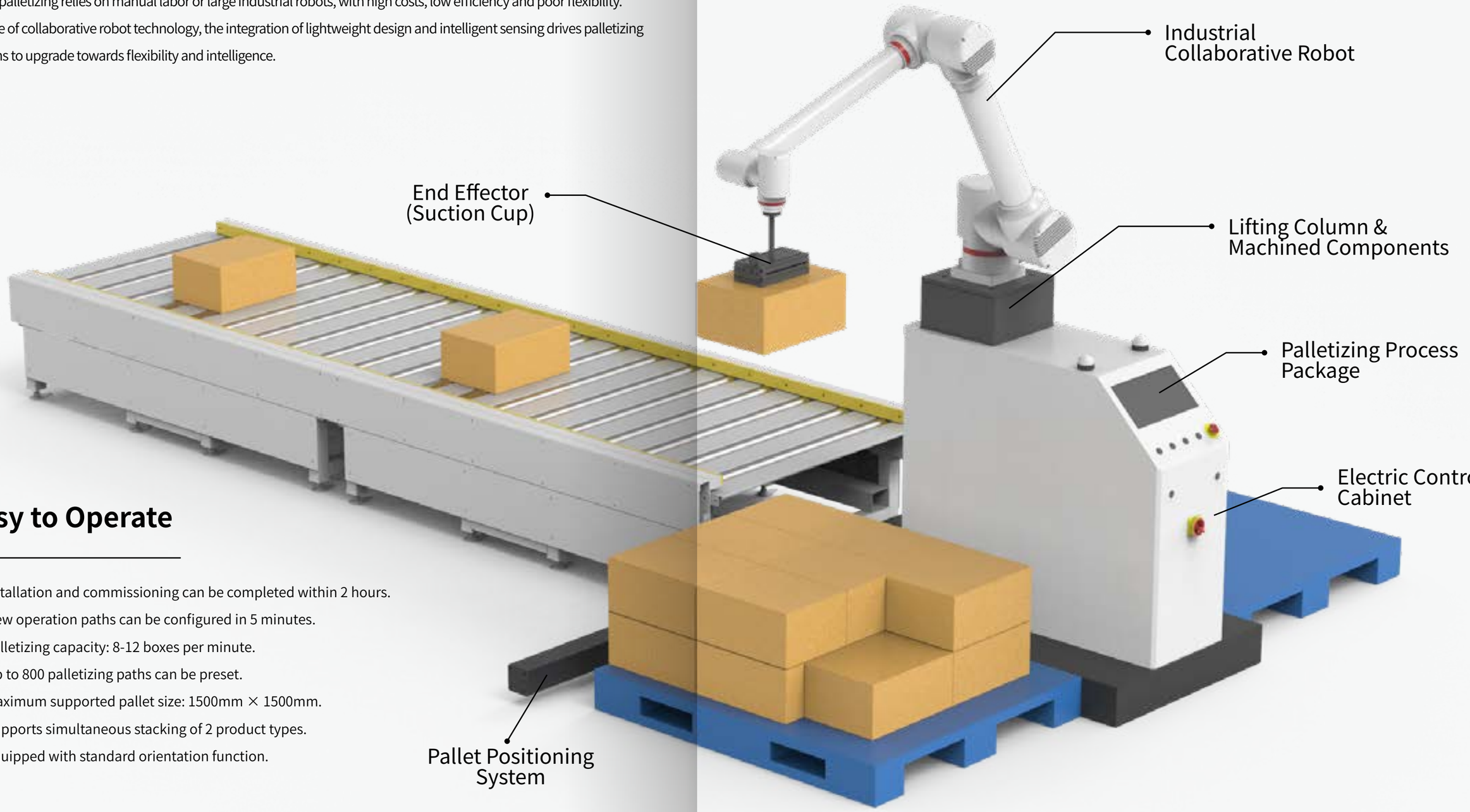


Corporate Introduction

HiCNC Robotics is a national high-tech enterprise that integrates R&D, manufacturing and services of industrial robots, collaborative robots and smart factories. To date, we have conquered more than 300 core robotic technologies, and hold internationally pioneering invention patents in innovative mechanical structures and control algorithms. We master four core key components of robots, and offer more than 50 types of complete robot products across six product series. Our independently developed robot control system has been applied on a large scale, with core independent innovation accounting for over 80%. We have supported the construction of over 10 national-level smart manufacturing demonstration factories and more than 100 provincial and ministerial-level smart manufacturing demonstration workshops. We have been officially included in the List of National Smart Manufacturing System Solution Providers and the List of National Industrial Robot Industry Normative Enterprises, and recognized as a national key "Little Giant" enterprise of specialization, refinement, differentiation and innovation. As a leading brand and core pillar, we drive the rapid development of China's domestic robot industry.

Composition of Industrial Collaborative Palletizing Workstation

Traditional palletizing relies on manual labor or large industrial robots, with high costs, low efficiency and poor flexibility. With the rise of collaborative robot technology, the integration of lightweight design and intelligent sensing drives palletizing workstations to upgrade towards flexibility and intelligence.



Easy to Operate

- Installation and commissioning can be completed within 2 hours.
- New operation paths can be configured in 5 minutes.
- Palletizing capacity: 8-12 boxes per minute.
- Up to 800 palletizing paths can be preset.
- Maximum supported pallet size: 1500mm × 1500mm.
- Supports simultaneous stacking of 2 product types.
- Equipped with standard orientation function.

Advantages of Palletizing Workstation

Centered on industrial collaborative robots, the palletizing workstation enables low-cost automated upgrading for "small-batch, multi-batch" scenarios, meets the flexible production needs of the Industry 4.0 era, and helps enterprises reduce costs and boost efficiency.

Human-Robot Collaboration

Supports collision detection, allowing safe collaborative operation with workers without safety guards.

Flexible Adaptability

Supports multiple stacking patterns; product specifications can be switched within 5 minutes, compatible with

Easy to Operate

Features a graphical programming interface. No professional engineers are required, and ordinary workers can master the operation in 30 minutes.

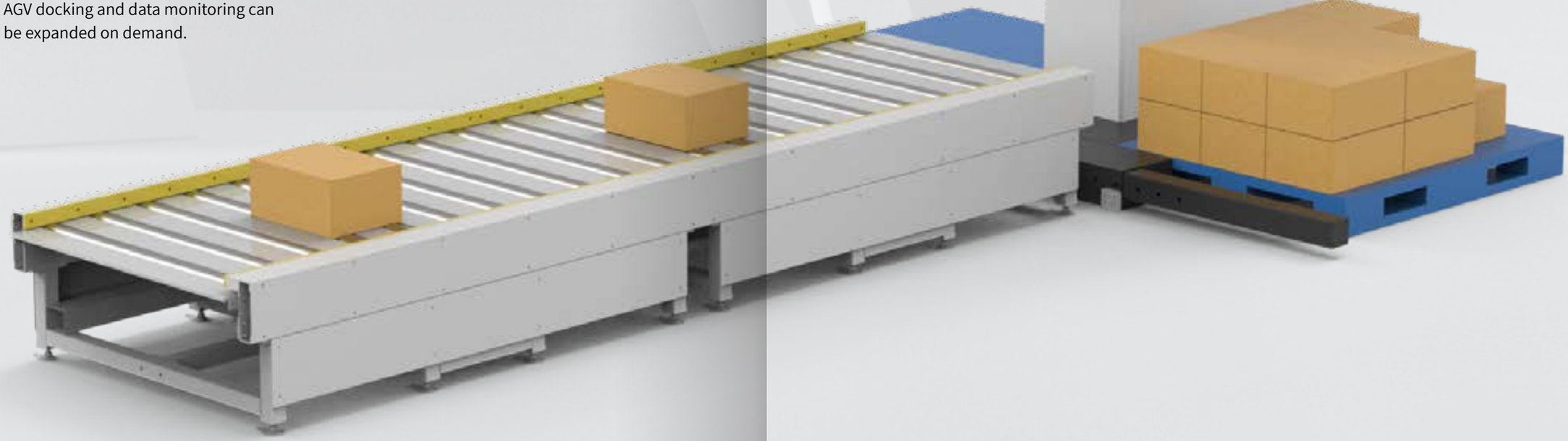
High Efficiency & Energy

Cycle time ⩽ 5 seconds per box; supports 24-hour continuous operation, with energy consumption 40% lower than traditional solutions.

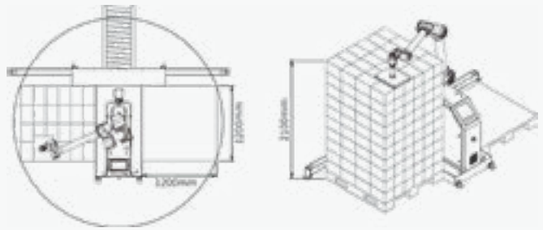
Modular Design

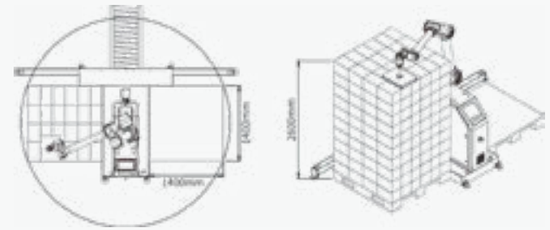
Functions including visual positioning, AGV docking and data monitoring can be expanded on demand.





Palletizing Workstation Specifications

Model	HSR-CR516-MD-PRO
Robot Payload	16kg
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max:2100mm
Palletizing Speed	<12pcs/mln
Repeat Positioning Accuracy	± 0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55° C
Maximum Power Consumption	2.4kw
Control Box Power Supply	Single-phase 220W/50HZ
Overall Weight	=350kg
Footprint	1505*1716mm
Operation Footprint	3150*1716mm
Minimum Workshop Height	3.2m

Model	HSR-CR516-MD-MAX
Robot Payload	16Kg
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2600mm
Palletizing Speed	<12pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	3.2kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 350kg
Footprint	1505*1716mm
Operation Footprint	3550*1716mm
Minimum Workshop Height	3.2m

Advantages of Palletizing

Easy Operation

Graphical programming, no advanced coding skills needed.
Master operation in 30 mins; simple programming done in 1 hour.

Flexible Deploymen

Integrated lightweight design, small footprint.
Quick and easy new task setup.

Wide Application

Widely used in food, pharma, 3C, chemical, printing and more.

Palletizing Workstation Expansion Options

LiDAR Sensor

· Non-contact, adjustable detection range
· Alarm & slowdown when approaching yellow zone
· Immediate stop upon entering red zone

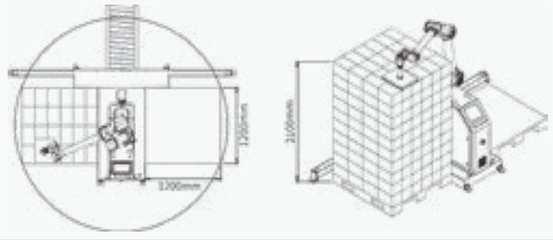
Light Curtain

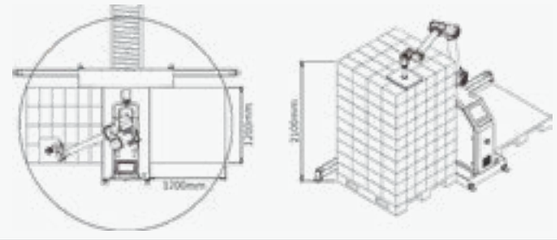
· Stable performance, strong anti-interference
· High sensitivity, fast response
· Long service life

Safety Fence

· Physical protection, safe and reliable

Palletizing Workstation Specifications

Model	HSR-CR520-MD-PRO
Robot Payload	20Kg
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2100mm
Palletizing Speed	<9pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	2.6kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 350kg
Footprint	1505*1716mm
Operation Footprint	3150*1716mm
Minimum Workshop Height	3.2m

Model	HSR-CR520-MD-MAX
Robot Payload	20Kg
Working Radius	1600mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2100mm
Palletizing Speed	<12pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	3.3kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 350kg
Footprint	1505*1716mm
Operation Footprint	3550*1716mm
Minimum Workshop Height	3m

Advantages of Palletizing

Easy Operation

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Flexible Deploymen

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Wide Application

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Palletizing Workstation Expansion Options

LiDAR Sensor

- Non-contact, adjustable detection range
- Alarm & slowdown when approaching yellow zone
- Immediate stop upon entering red zone

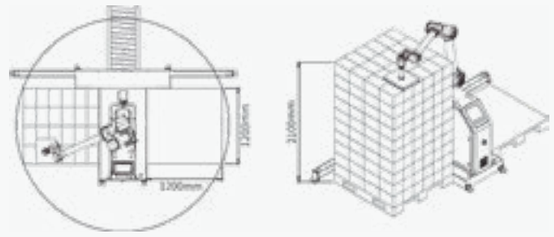
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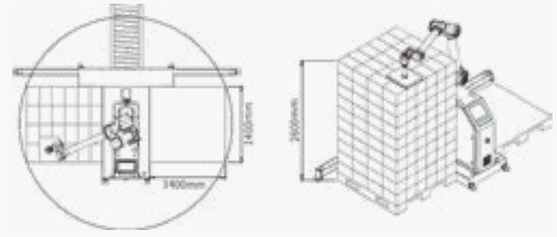
- Stable performance, strong anti-interference
- High sensitivity, fast response
- Long service life

Safety Fence

- Physical protection, safe and reliable

Palletizing Workstation Specifications

Model	HSR-CR525-MD-PRO
Robot Payload	25Kg
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2100mm
Palletizing Speed	<9pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	2.8kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 350kg
Footprint	1505*1716mm
Operation Footprint	3150*1716mm
Minimum Workshop Height	3.2m

Model	HSR-CR525-MD-MAX
Robot Payload	25Kg
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2600mm
Palletizing Speed	<12pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	3.4kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 350kg
Footprint	1505*1716mm
Operation Footprint	3550*1716mm
Minimum Workshop Height	3.2m

Advantages of Palletizing

Easy Operation

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Flexible Deploymen

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Wide Application

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Palletizing Workstation Expansion Options

LiDAR Sensor

- Non-contact, adjustable detection range
- Alarm & slowdown when approaching yellow zone
- Immediate stop upon entering red zone

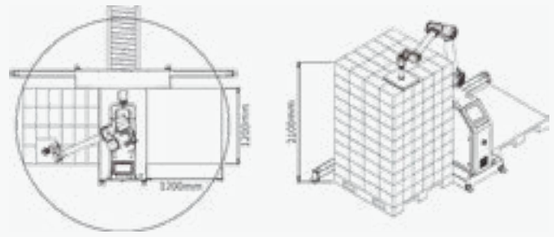
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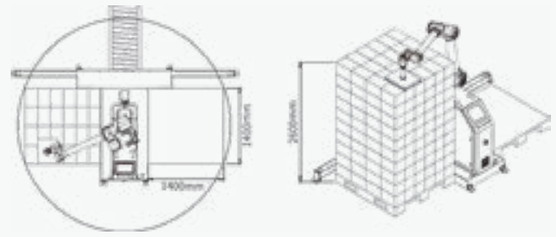
- Stable performance, strong anti-interference
- High sensitivity, fast response
- Long service life

Safety Fence

- Physical protection, safe and reliable

Palletizing Workstation Specifications

Model	HSR-CR530-MD-PRO
Robot Payload	30Kg
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2100mm
Palletizing Speed	<9pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	3kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 350kg
Footprint	1505*1716mm
Operation Footprint	3150*1716mm
Minimum Workshop Height	3.2m

Model	HSR-CR530-MD-MAX
Robot Payload	30Kg
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2600mm
Palletizing Speed	<9pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	3.5kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 350kg
Footprint	1505*1716mm
Operation Footprint	3550*1716mm
Minimum Workshop Height	3.2m

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Easy Operation

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Palletizing Workstation Expansion Options

LiDAR Sensor

- Non-contact, adjustable detection range
- Alarm & slowdown when approaching yellow zone
- Immediate stop upon entering red zone

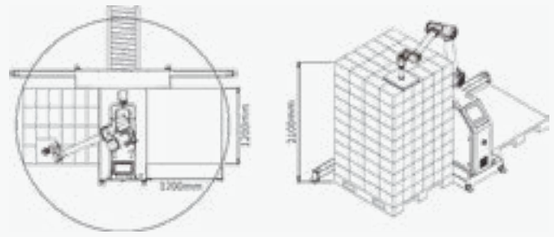
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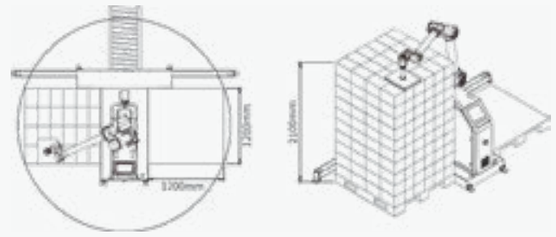
- Stable performance, strong anti-interference
- High sensitivity, fast response
- Long service life

Safety Fence

- Physical protection, safe and reliable

Palletizing Workstation Specifications

Model	HSR-CR540-MD-PRO
Robot Payload	40Kg
Working Radius	1900mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2100mm
Palletizing Speed	<7pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	3.5kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 500kg
Footprint	1505*1716mm
Operation Footprint	3150*1716mm
Minimum Workshop Height	3.3m

Model	HSR-CR540-MD-MAX
Robot Payload	40Kg
Working Radius	1700mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2100mm
Palletizing Speed	<7pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	4kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 500kg
Footprint	1505*1716mm
Operation Footprint	3250*1716mm
Minimum Workshop Height	3.2m

Advantages of Palletizing

Easy Operation

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Flexible Deploymen

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Wide Application

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Palletizing Workstation Expansion Options

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- Non-contact, adjustable detection range
- Alarm & slowdown when approaching yellow zone
- Immediate stop upon entering red zone

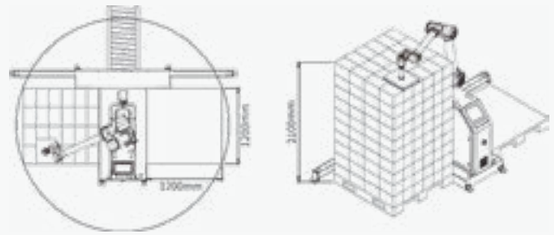
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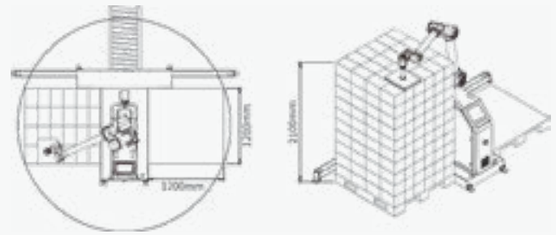
- Stable performance, strong anti-interference
- High sensitivity, fast response
- Long service life

Safety Fence

- Physical protection, safe and reliable

Palletizing Workstation Specifications

Model	HSR-CR550-MD-MAX
Robot Payload	50Kg
Working Radius	1700mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2100mm
Palletizing Speed	<7pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	4.5kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 500kg
Footprint	1505*1716mm
Operation Footprint	3250*1716mm
Minimum Workshop Height	3.2m

Model	HSR-CR560-MD-MAX
Robot Payload	60Kg
Working Radius	1700mm
Horizontal Distance (Pallet Specification)	
Palletizing Height	Max：2100mm
Palletizing Speed	<7pcs/min
Repeat Positioning Accuracy	±0.04mm
Communication Protocol	TCP/IP
IP Rating	IP54
Temperature Range	0-55°C
Maximum Power Consumption	5kw
Control Box Power Supply	Single-phase 220v/50HZ
Overall Weight	≈ 500kg
Footprint	1505*1716mm
Operation Footprint	3250*1716mm
Minimum Workshop Height	3.2m

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Partners

Our user-facing service terminals underpin Huasu Robotics' brand growth, delivering consistent high-quality service to all users wherever Huasu products are available.

FOXCONN 富士康科技集团
HUAWEI
仁寶電腦 COMPAL
YORK BY JOHNSON CONTROLS
BOCHI 宝鸡机床
三A园具 THREE A KITCHEN
MASTER GROUP 万事泰集团
DEC 东方电气 DONGFANG ELECTRIC
东风汽车
FOTILE方太
Galanz 格兰仕
TCL
PHILIPS 飞利浦
vatti 華帝 高端智能厨电
Bear小熊 年轻人喜欢的小家电

vatti 華帝 高端智能厨电
威力 WEILI
长虹 CHANGHONG
LINKFAIR
CSIC 中国船舶重工集团公司 CHINA SHIPBUILDING INDUSTRY CORPORATION
Midea
BYD
长安汽车 CHANGAN
Ford
Vanward万和 让家更温馨
BEST百得 高端不贵 百得厨卫
Carrier TRANSICOLD
新兴铸管 XINXING PIPES
SANHO 三禾 健康·美丽生活 Healthy · Beautiful life
BOE