Impak

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Alpha Robot Palletizer

APR-C20

Introduction

The Alpha Robot Palletizer Workstation is a specialized solution designed for handling small goods in various industries, including food, medicine, 3C (computers, communications, consumer electronics), printing, daily chemicals, and more. This workstation is built for efficiency, featuring a visual programming interface that can be set up in just five minutes. After inputting the necessary information, the workstation can autonomously stack products or cartons onto pallets, eliminating the need for manual handling.

This user-friendly system requires no special training, making it accessible to any operator. The high-load design allows the end effector to handle products weighing up to 20 kg. Additional benefits include flexible deployment, a small footprint, simple wiring, easy maintenance, and high operational efficiency. The workstation can stack between 5 to 10 boxes per minute, enhancing productivity and reducing labour costs.

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Characteristics

Simple operation

With touch screen design, it only needs to manually enter and save the parameters to realize unmanned handling

Simple operation process

Preparation - Palletizing mode setting - A palletizing - B palletizing - complete

Both left and right can be

stacked Labour-saving

The palletizing operation of the goods is completed by the machine instead of the manual

Easy maintenance

For precision parts, only the suction cup needs to be replaced after 300,000 times of use

High safety factor

Adjustable/portable fence

Flexible Expansion

Can be combined with Case Erectors, Carton Labelling machines and other assembly linesto provide customers with an overall solution for packaging goods
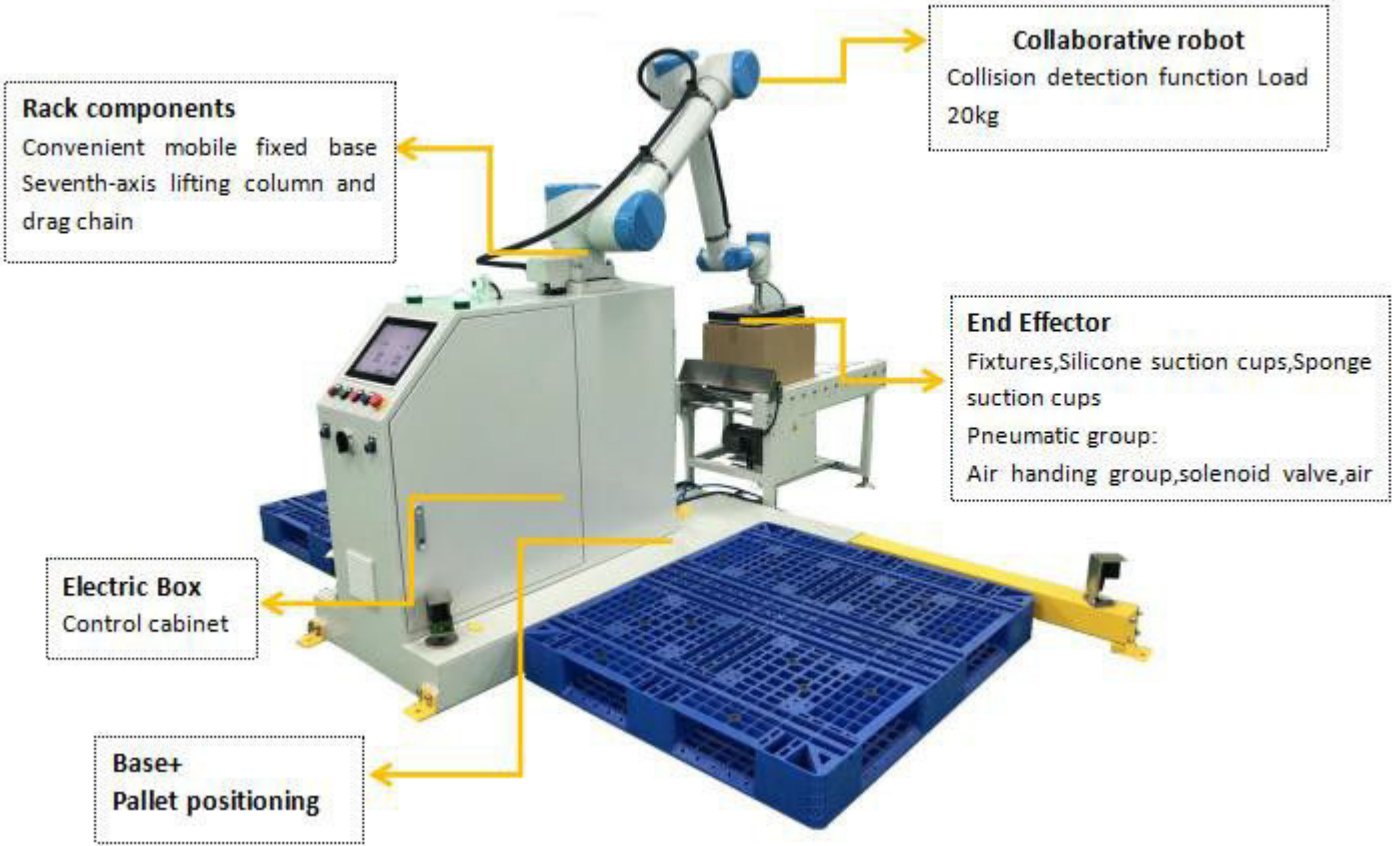
Technical Parameters

Model	Parameter for APR-C20L	Parameter for APR-C20H
Speed	5-10 cycles / min	5-10 cycles / min
Effective load bearing	20KG	20KG
Floor area	3600mm*2850mm	3600mm*2850mm
Power	220V 3.75KW, 1Ph,60Hz.17 AMPs	220V 4.5KW, 1Ph,60Hz,21 AMPs
Working radius	1650mm	1650mm
Applicable carton range	L：180-520mm，W：280-520mm， H：180- 420mm （Applies to pallet size to:1300mm*1100mm）	L：180-520mm，W：280-520mm， H：180- 420mm （Applies to pallet size to:1300mm*1100mm）
Palletizing height	Fixed Base 1.65Meter	**Liftable** 2.2Meter
Pallet size	Maximum 1300mm*1100mm Material: plywood, plastic, wood	Maximum 1300mm*1100mm Material: plywood, plastic, wood
Placement rules	AB stack	AB stack
Barometric pressure	0.8cfm at 80psi	0.8 cfm at 80psi
Re-read positioning accuracy	±0.04	±0.04

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Show details

Pressure Gauge ←

Indicator ←

→ **Indicator**

Rack components
Convenient mobile fixed base
Seventh-axis lifting column and
drag chain

Collaborative robot
Collision detection function Load
20kg

End Effector
Fixtures,Silicone suction cups,Sponge
suction cups
Pneumatic group:
Air handing group,solenoid valve,air

Electric Box
Control cabinet

Base+
Pallet positioning

Operating system
Austrian manufactured Keba control
system Annovance 12 inch colour
touch screen Build in anti-collision
sensor

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Palletizing mode display

**Palletizing on
the left**

**Simultaneous palletizing
on both sides**

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Liftable palletizing workstation display

APR-C20L
Fixed Base Palletizing Workstation(Max Pallet Height:1650mm)

APR-C20H
Liftable Palletizing Workstation(Max Pallet Height:2200mm)

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External dimensions

The general size											
1-4	± 0.05	**Tag**		Change file number	Date						
4-16	± 0.07	Designed by			Date		**Pattern marker**	Number of	Weight	**Sheet**	
16-63	± 0.1	Proofreading			Date						
63-250	± 0.2				Date		S				A4
250-1000	± 0.3	**Audit**			Date						
1000-1500	± 0.5	Approval			Date			Page			

APR-C20