


The PA series also has various options.




Signal light

Signals can be displayed so that the state of the palletizing robot can be seen even from a distance.



Electronic sound alarm

The completion of palletizing and other operations will be notified with an electronic melody.



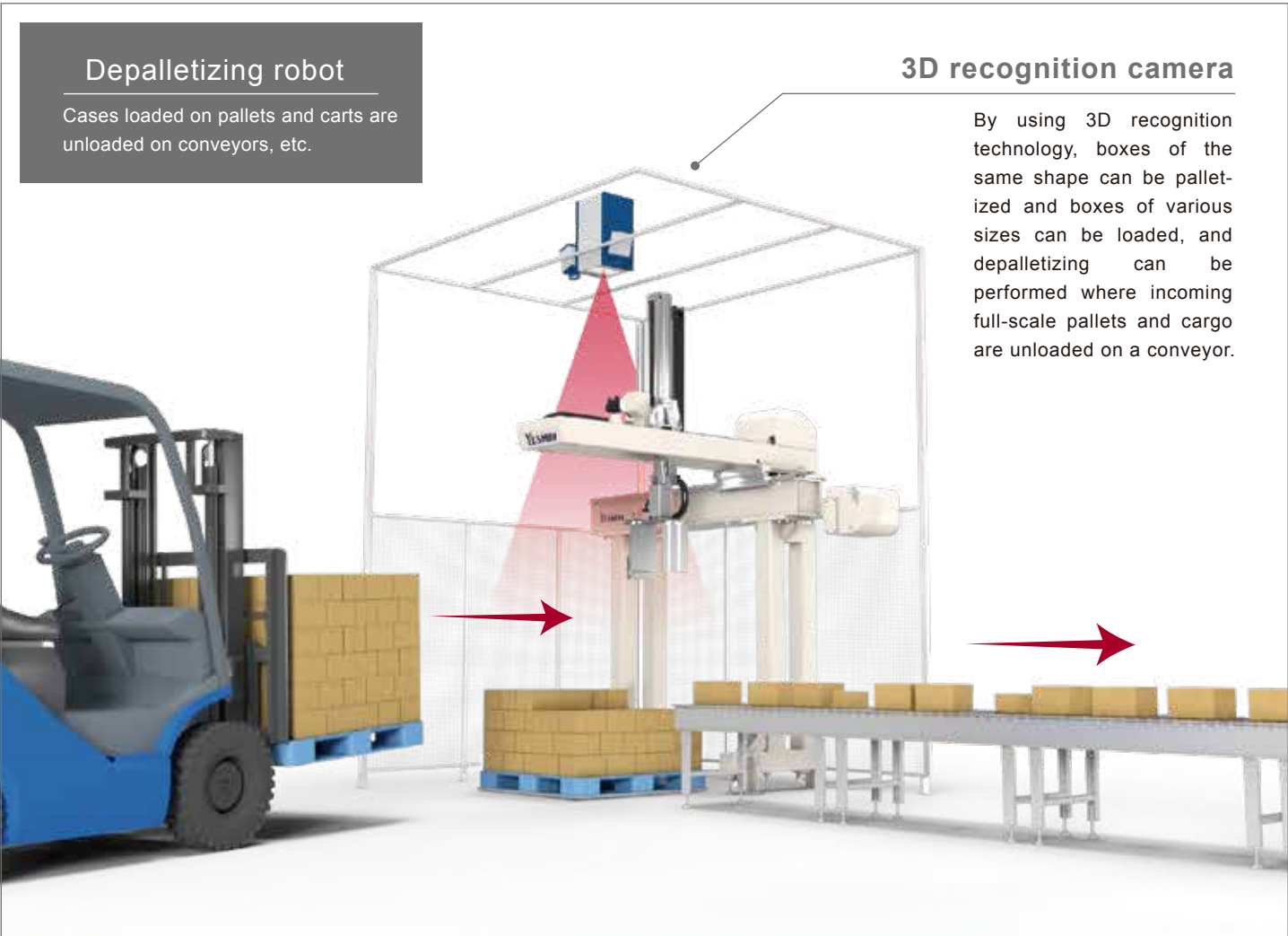
Low air pressure detection


If the air source pressure falls below the specified value, an error will be displayed and the palletizing robot will stop immediately.



Grease scattering prevention cover

Attaching the cover to each part prevents grease accumulated during operation from scattering.





Safety Warnings

- The products within this catalog are defined as industrial robots and parts per Japan's Ordinance on Industrial Safety and Health.
- The photographs and illustrations appearing in this catalog were taken without safety enclosures and other safety devices and equipment required by the Ordinance, in order to more clearly illustrate the products. Please have safety devices and equipment installed and/or available before using the products.
- Before using the products described in this catalog, please carefully read all instruction manuals and other documentation provided, to ensure proper use.

* The content of this catalog is subject to change without notice, for improvement purposes.
* "PAT." and "PAT.P" notations in this catalog are in accordance with Japan's Patent Act.
Patent application/registration status outside Japan may differ from that noted in this catalog.

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PA series » Concept

A Palletizing Robot Born Out of Market-Leading Plastic Molding Take-Out Robots

Compact & free access PA series

The inaccessible area is also small, and since there is no floor-based robot controller, it can be installed later in the limited space.

In addition, compared to gantry-type robots, there are fewer obstructive stanchions that are placed around the robot, allowing for a free layout similar to that of an articulated robot.

Compact & Free Access Allowing Flexible Layout

High cost performance

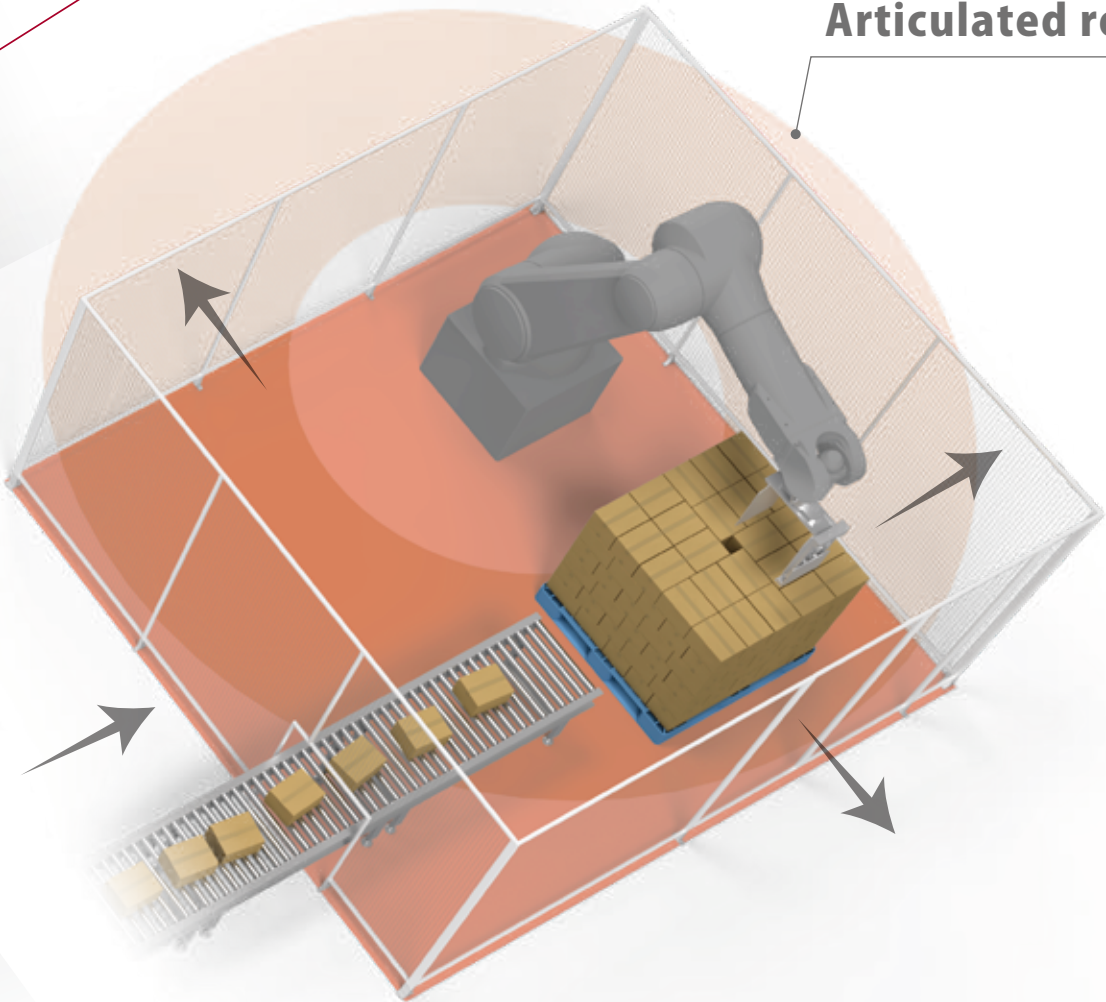
Easy installation & stable operation

Compact

- Intuitive and easy operation
- Low power consumption and energy saving
- Easily achieves 420 boxes/hour
- Maximum payload 40kg

Let the Robots Handle Tough Loading and Unloading Work

requires a large space
Articulated robot



Space Saving

Free Access

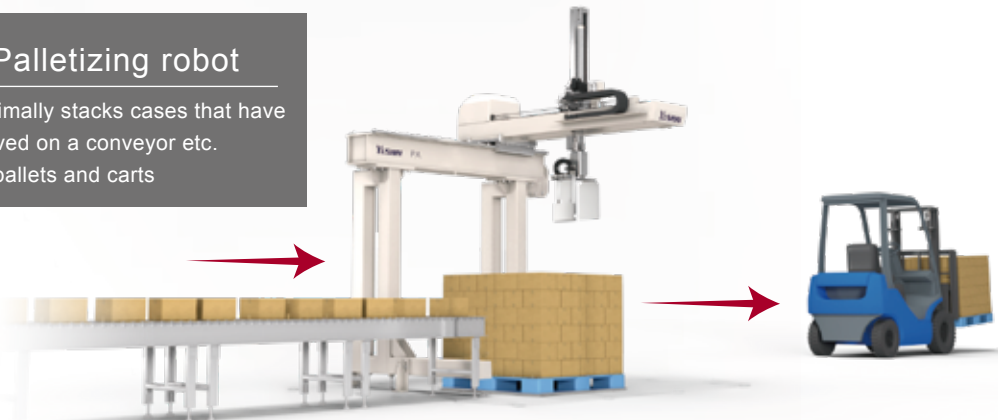
Free Access

Free Access

One-way access
gantry-type robot

Palletizing robot

Optimally stacks cases that have arrived on a conveyor etc. on pallets and carts

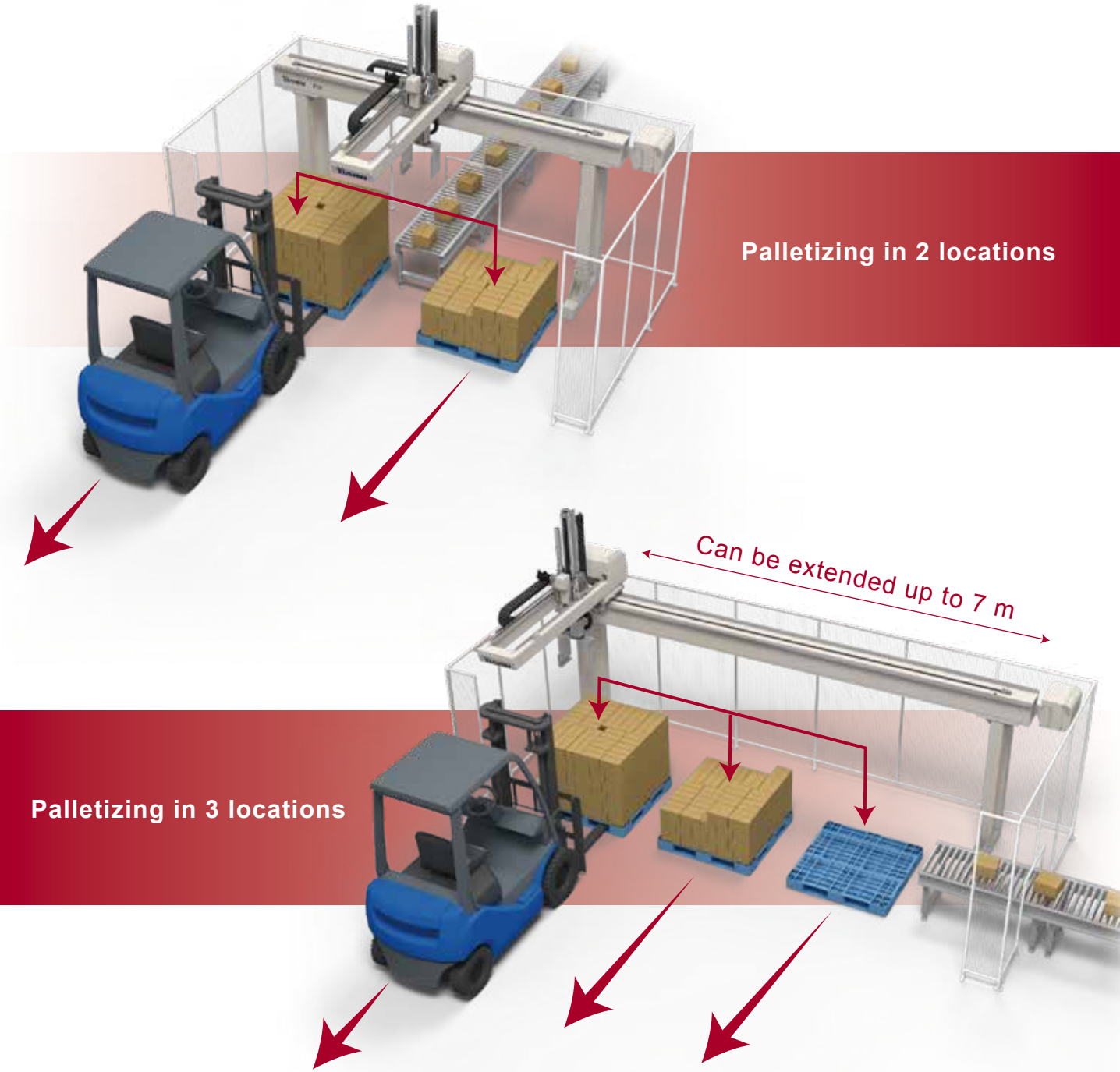


PA series » Product features

Usability that supports easy installation and stable operation

Easy operation, even for first-time workers.
An interface that has been cultivated over many years in the molding industry lowers any threshold associated with introducing a robot, allowing for smooth operation after introduction.

Possible Layouts in a Currently Limited Space



※Image is for illustrative purposes only.

A track record of over 100,000 units worldwide Speedy Support & Cost Performance



Strong service support that supports optimal robot hand design and other numerous automation and labor-saving results.
With quick installation by the manufacturer, it can be introduced with a minimum line stoppage.
The service bases spread all over the world are always stocked with maintenance parts shared with the take-out robot, and they can be used for a long time with speed maintenance and high cost performance.



Controller Offers Total Control

7.5-inch Full Color Touchscreen

The controller is rugged, light-weight, and comfortable to hold with one hand. Learning the robot's operation is easy with icon-based displays on the 7.5-inch full color touchscreen.

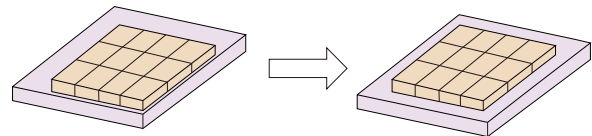


Compact and easy-to-use touchscreen controller



Teaching Position Correction Function

When relocating or changing the layout, it is unnecessary to teach again even when the pallet position changes. As long as the reference position is aligned, everything else can be left to the robot.



PA series » Product specifications

PA-20

Feature	Specifications
Drive Method	AC servo motor drive (absolute encoders on all 4 axes)
Power consumption	2.3kVA AC200V 11.5A
Payload	20kg (incl. robot hand)
Stroke	X-axis...1800mm Y-axis...1060mm Z-axis...1300mm θ-axis...320°

Feature	Specifications
Processing power	420cycle/h (7cycle/min)
Working air pressure	0.49MPa
Air Consumption	292 l(normal)/min
Required minimum space	W3100mm×D2700mm ×H3300mm

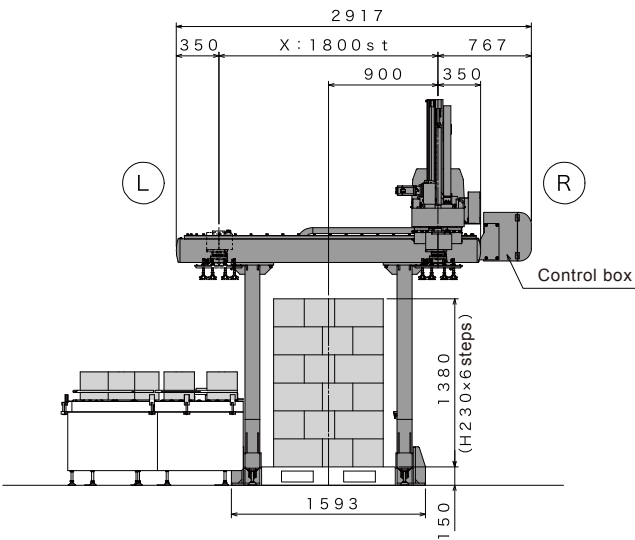
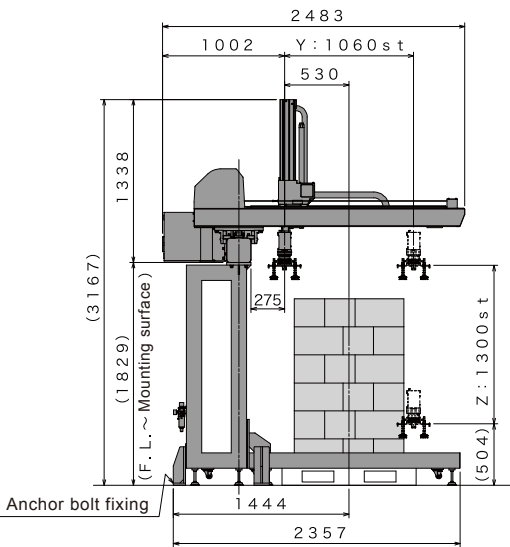
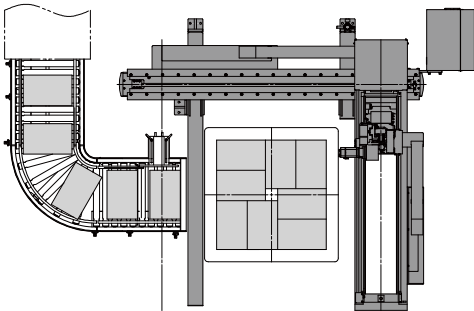
PA-40

Feature	Specifications
Drive Method	AC servo motor drive (absolute encoders on all 4 axes)
Power consumption	2.9kVA AC200V 11.1A
Payload	40kg (incl. robot hand)
Stroke	X-axis...1800mm Y-axis...1490mm Z-axis...1800mm θ-axis...280°

Feature	Specifications
Processing power	360cycle/h (6cycle/min)
Working air pressure	0.49MPa
Air Consumption	308 l(normal)/min
Required minimum space	W3400mm×D3300mm ×H4300mm

Dimensional drawings [unit: mm]

- Control box mounting position is selectable (L side, R side)
- Values in () are for reference purpose only



Dimensional drawings [unit: mm]

- Control box mounting position is selectable (L side, R side)
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