

S201

Solution for the gantry palletising, with double loading station. Feeding unit and manual pallet discharge in a single monoblock, compact and flexible.



Characteristics

- > Gantry type palletizer using high speed servodriven motion.
- > Optimal machine height by using telescopic mast.
- > High safety standards by using sensor barriers and optionally interlocked doors.
- > Ergonomic and compact footprint.
- > 10 inches touch screen panel view with manuals and pallet patterns included.

- > Open design structure provides simple & quick access for cleaning and maintenance.
- > Double pallet area by manual feeding.
- > Different layouts available depending on the application.
- > Customized gripper to handle multiple boxes with fast and automatic change-over.
- > Format edition and modification fully electronic by user.

The modular gantry palletiser type Pick & Place **S-201** has been specifically designed to handle cardboard cases, shrink wrap packages or any other regular shape package in a small area.

The **S-201** is a gantry palletiser with double loading station, feeding unit and manual pallet discharge, compact and flexible.

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Solution for the gantry palletising, with double loading station. Feeding unit and manual pallet discharge in a single monoblock, compact and flexible.

The S-201 palletiser has been conceived to be adapted directly after one or two output conveyors of a casepacker, completing this the end-of-the line.

This unit is ideal for low and medium capacities. As a general concept, it is considered a cycle speed of 10/min.

If the pallet pattern allows to carry two cases/cycle then the speed will be of 18 cycles/min.

It allows working simultaneously with boxes and patterns of different sizes in the following scenarios:

Single product conveyor. In this case, the palletiser finishes one pallet, shifting automatically to the second new pallet position to complete the process.

Two product conveyors with different SKU or product presentation. The Sigma palletiser positions the product in each corresponding pallet, according to the accumulation or presence of product in the conveyor.

In both cases, the positioning of the empty pallet (loading position) and the unloading of full pallet it is done manually. Access to both palletising stations can be open, but always protected by means of light curtains with muting. The signal "inside to outside" is enabled while any object interfering with an "outside to inside" movement generates an emergency stop. Safety in this operation is according to the CE norms and fully guaranteed.

The head is adapted to every specific case; however, there are three main universal picking systems: side pressing shovels . set of multiple suction cups by Venturi effect or grippers.

The X, Y and Z axes are controlled by servomotors to increase the speed and efficiency of the process. A fourth axe (product rotation) is optionally available.

The frame has been designed to be as compact as possible and robust. Polycarbonate doors and windows offer full visual inspection from any area around the machine. The doors allows free access and clear of obstacles into the machine. Security microswitches in case of opening are included.

Touch screen

The touch screen has a simple operation and it is friendly-user, with constant indication of status and axes position. Modifying or creating a new palletizing pattern is done by the operator through the touch screen and requires no external assistance. Touch screen and PLC programming interface accomplish with the OMAC (Open Modular Architecture Controls) PACK ML standards. The equipment is controlled by a multifunction touchscreen, providing the operator all necessary information for a correct operation, changing and adjusting format. Moreover, thanks to multiple password levels, the main parameters of the equipment can be modified.

Technical information

Maximum palletising height (pallet included)	1700 mm (Other upon request)
Maximum payload (head included)	30 Kg
Capacity	10 cycles/minuto
Available heads	Side pressing shovels, suction cups, fork
Pallet dimensions	1000x1200, 800x1200 (Other upon request)
Electrical power	5,5 kW

PRODEC has succeeded bringing together in this equipment outstanding design and functionality features such as:

Accesible

The clean and open design without mechanical barriers, makes this equipment extremely simply and easy-to-use, whether a format changing, by a simple regulation or usual cleaning and maintenance.

Flexible

Its advanced concept allows an expansion of its functions to suit the required project needs.

Ergonomy

For its development, specific methods design has been used to optimise the staff operating comfort in the machine.

Information management

A powerful software developed by our technical team allows a complete control of all machine functions, as well as easy-format changing through its touchscreen. Thanks to this, it is also possible to verify the production efficiency of each work shift or time slot, becoming thus a effective analysis instrument. It is prepared to integrate working lines according to OMAC standards.