

PALLETISING

- PALLETISING ROBOTS
- PALLET LOADERS
- ACCESSORIES



Palletising

Palletising robots

Robot-In-A-Box palletisingrobot
The SOCO SYSTEM Robot-In-A-Box solution is a complete "plug and play" solution for case palletising.

Page 1



PRS Single palletisingrobot
Compact, flexible and efficient standard palletisingrobot.

Page 3



PRD double palletisingrobot
The flexible double robot has two pallet positions that can be utilised in several ways.

Page 5



Accessories for palletising robots

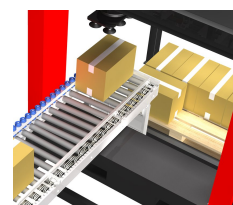
Vacuum, gripper, and lifting heads

Page 6



Feed-in conveyor

Page 6



Customised safety guarding programme

Page 7



Pallet loaders

Pallet loader
Layer by layer.

Page 8



Robot-In-A-Box palletising robot

The SOCO SYSTEM Robot-In-A-Box solution is a complete "plug and play" solution for case palletising.

The Robot-In-A-Box unit is equipped with universal vacuum gripper head and universal pallet positioning device and will handle practically any case or pallet you want to operate.

Online or offline programming

The robot IPC is delivered preinstalled with SOCOlogic self-programming software and PalletBuilder software for complex pallet patterns.

Service, education, and delivery

The Robot-In-A-Box solution comes with a complete service management backup including webcam and remote control assistance setup, e-learning based education of all relevant personal, and "plug & play" delivery to your production site.

Safe to operate, simple and versatile

The palletising robot requires minimal maintenance and is easy to access.



Item no.

Model

Robot-In-A-Box

Subject to alteration.

Item no.

5600000310



If the pallet pattern is already in the IPC it is easy to change to another pallet pattern.



Packaging manager, Benny Henriksen, at Arla Foods in front of the robot solution from Soco System: “With Robot-In-A-Box, we found the simple solution to the difficult job”.

PRS Single palletising robot

Compact, flexible and efficient standard palletising robot.

- Can be configured and equipped with many different features to meet specific needs and applications.
- User friendly software makes it easy and swift to shift to or build new optimised pallet patterns.
- Can be combined with the extensive SOCO SYSTEM product range of pallet handling equipment.
- The robot comes tested with customer cases and pallet patterns.

New pallet pattern in 30 seconds

If the pallet pattern is already in the IPC, it takes no more than 30 seconds to switch to another programme.

New pallet patterns generated using optimisation software, such as CAPEPACK®, can be transferred online or via diskette.

Safe to operate, simple and versatile

The machine requires minimal maintenance and is easy to access. It is equipped with safety fencing that meets CE requirements.

Greater pallet capacity - Improved freight economy

All types of cases, even heavy and bulky ones, can be stacked at heights up to 2700 mm in order to fully utilise the capacity of lorries and containers.

Stainless steel for wet environments

The robot can be supplied entirely or partially in stainless steel. The robot has powder coated finish in RAL 2002 and RAL 9005 colours as standard. Special colours are available for at a surcharge.

Layer pad magazine

PRS single robot can be extended with magazine for intermediate sheets.

Ask for a configured robot solution, or



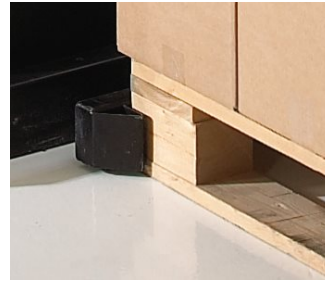
Item no.	
Model	Item no.
PRS Single palletising robot	5600000201
Subject to alteration.	



The palletising robot is controlled by an IPC-Controller, which is located in one of the pillars. When not in use, the IPC Controller can be slid into the pillar - securing the electronics in the best possible way.



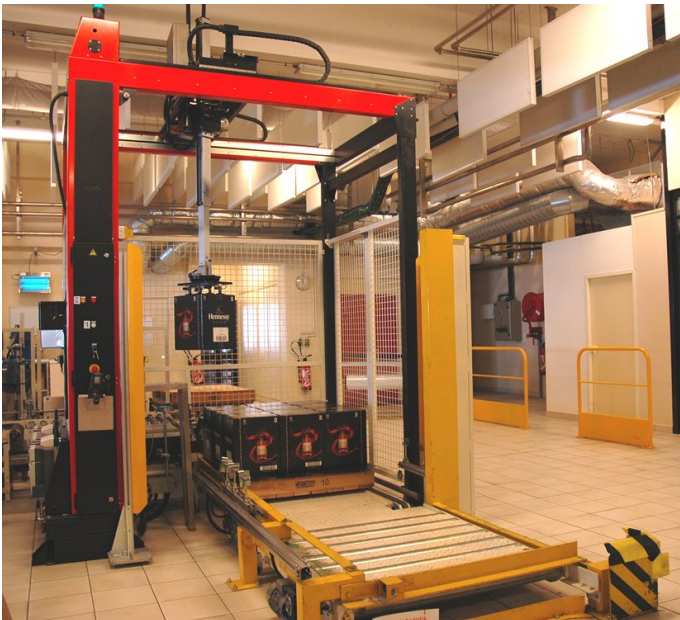
The palletising robot is extremely easy to operate and reconfigure for different pallet patterns. The software is Windows-based, and the IPC can be used to control any peripheral equipment, such as pallet conveyors, pallet magazines, etc.



Easy pallet positioning. Pallet guides ensure and facilitate correct positioning of the pallet.



Compact design. The illustration shows a robot for 800 x 1200 mm pallets.



JAS HENNESSY & CO, Cognac.

Accessories

- ▶ Customised safety guarding programme
- ▶ Vacuum, gripper, and lifting heads
- ▶ Feed-in conveyor

PRD double palletising robot

The flexible double robot has two pallet positions that can be utilised in several ways.

No waiting time during pallet change

The modular robot can palletise the same product onto two pallets. When one pallet is full, the robot automatically starts to palletise on the second pallet, allowing plenty of time to remove the first full pallet and replace it with an empty pallet.

Product sorting

The double robot can palletise two different products – one on each pallet. The two different products can arrive on the same infeed conveyor. Photocells or other sensor equipment will then tell the robot what product is to be palletised onto which pallet.

Double line operation

The double robot can handle two different products that arrive to the robot on two separate infeed conveyors – one from each production line. The robot takes each product to its own pallet.



Item no.	
Model	Item no.
PRD double palletising robot	5600000202
Subject to alteration.	

Accessories

- ▶ Customised safety guarding programme
- ▶ Vacuum, gripper, and lifting heads
- ▶ Feed-in conveyor

Accessories for palletising robots

Vacuum, gripper, and lifting heads

As standard, the palletising robot is equipped with a compact vacuum head made as a "sandwich" construction where the air runs inside the plate. By relying on this principle, the use of fragile tubes and fittings is avoided, and the unique "sandwich" construction makes it easy and inexpensive to tailor vacuum heads for individual requirements.

In addition to the standard vacuum head, SOCO SYSTEM develops special gripper and lifting heads upon request to handle e.g. trays, crates, cans, etc.

Built-in safety switches

All robot heads are fitted with built in safety switches to protect against overload of the x-, y-, z-axes and of the turn movement.

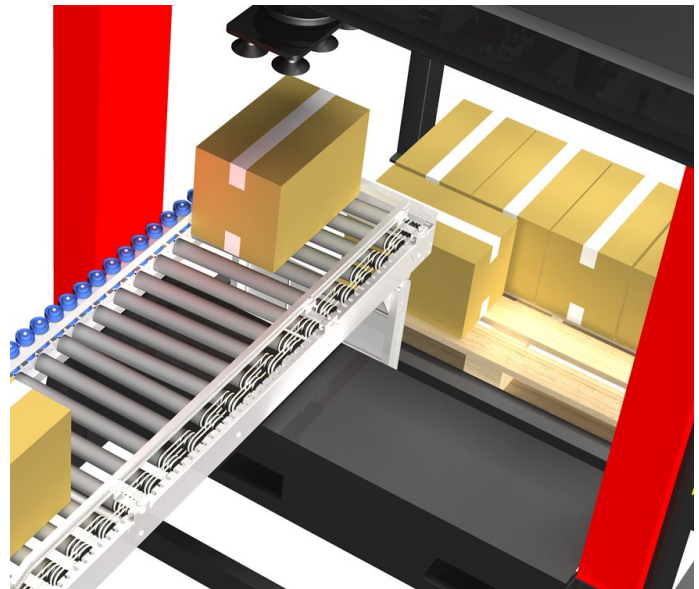
Servomotors

The x-, y- and z-axes and the turn movement of the robot head are driven by servomotors. The servomotors work with extreme accuracy and have substantial lifting power even down to very low speeds.



Feed-in conveyor

The robot can be supplied with a driven feed-in conveyor. The feed-in conveyor enables accumulation and separation of the incoming items.



Customised safety guarding programme

According to international safety regulations, most palletising robots must be fitted with safety guarding or other safety measures. A tailor-made and integrated security fence programme is available for the robot including standard fence, standard doors, manual and automatic sliding doors, safety light barriers, and double safety circuits for multiple pallet positions.



Pallet loader

Layer by layer.

The pallet loader can operate as a semi automatic unit, or it can be integrated into a fully automatic palletising system.

More on the pallet

All cases, including heavy and bulky ones, can easily be stacked to heights of 2500 mm in order to fully utilise the capacity of lorries and containers.

Safe to operate, simple and versatile

The machine requires minimal maintenance and is easy to service. The machine is available with either left or right-hand operation.

Simple and safe operation

The software is simple and self-explanatory, and is operated using a finger touch panel. When the stripper plate is filled, the operator steps onto a safety mat that deactivates the machine. The machine is supplied with safety screening.

Stainless steel for wet environments

The pallet loader and the rest of the product range are available in galvanised or stainless steel. The machine can be ordered in special colours at a surcharge.

Ask for a configured pallet loader solution,



Item no.	
Model	Item no.
Pallet loader	5600000100
Subject to alteration.	



The ball table facilitates transfer to the stripper plate (accessory).



On the stripper plate, the operator forms the desired pattern.



By a simple press of a button, the case layer is transferred to the pallet.



Grass with a height exceeding 2.40 metres Investment in a new packaging line has yielded an improved working environment, higher productivity, and lower transport costs (Prodana Seeds).

C

Customised safety guarding programme 7

F

Feed-in conveyor 6

P

Pallet loader 8

PRD double palletisingrobot 5

PRS Single palletisingrobot 3

R

Robot-In-A-Box palletisingrobot 1

V

Vacuum, gripper, and lifting heads 6



The SOCO SYSTEM

From case erecting to pallet securing

The SOCO SYSTEM product range handles cases, plastic crates, trays, pallets, and many of your products.

The SOCO SYSTEM product range is designed to increase efficiency and eliminate physically strenuous work functions.

One system – one supplier

There are many advantages of full product compatibility; less paperwork and no time wasted in adapting products from different suppliers.

Meet your future requirements

Add modules and functionality, relocate modules, or whatever fits your future needs.

Call us, mail us, or visit us at www.socosystem.com

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