

# KRONES Pressant Universal Sweep-off depalletiser



# Gently does it

KRONES Pressant Universal

When it comes to depalletising cans, glass or plastic containers, the Pressant Universal is always the right choice. This sweep-off depalletiser always operates with particular care to ensure that no damage is caused to the product. This is made possible thanks to its positioning drives which are gentle on the product and the machine. Thanks to its modular construction, the Pressant can also be adapted to precisely suit the speed and layout of your line. And since its lifting column is equipped with counterweights, this sweep-off depalletiser requires only a small amount of energy - giving "weight" to an argument in favour of the Pressant!

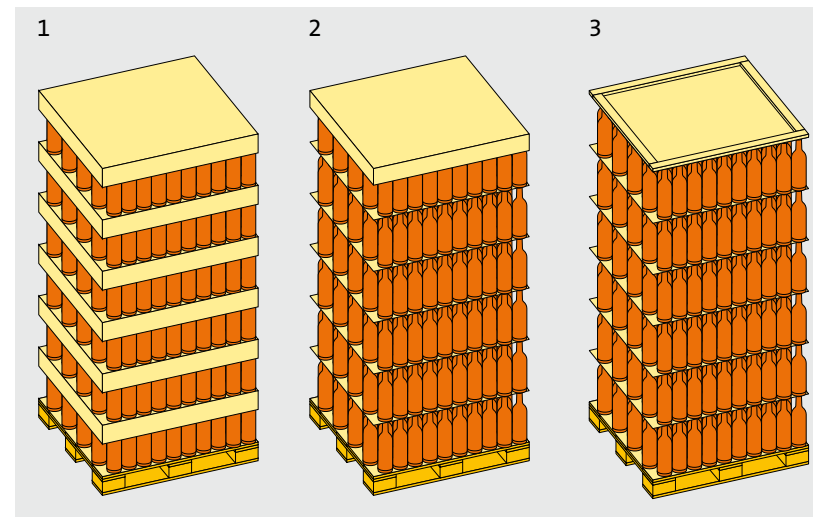


## Principle of operation

The unstrapped pallets are transported to the machine. A sensor measures the actual height of each of the top layers. The optimum stopping point for each layer is redefined taking any container tolerances into account. The sweep-off carriage moves over the layer and the pallets are secured by centring the second layer from the top. The sweep-off carriage then embraces the top layer from all four sides. The Pressant 1N then pushes the layer onto a transfer plate, the Pressant 1A pushes it onto a container discharge table. Layer pads, inverted trays and top frames are picked up and removed by a layer pad remover.

## Application

For depalletising cans, glass and PET containers



*The sweep-off depalletiser processes pallets with inverted trays or flat layer pads made of paper or plastic.*

- 1 Pallet with inverted trays
- 2 Pallet with layer pads and inverted tray
- 3 Pallet with layer pads and top frame

## Output range

Model	Processing range*	Output in layers per hour	Container diameter (mm)	Height (mm)	Pallet dimensions** L x W x H (mm)
1N	PET/inverted tray	150	50 – 130	100 – 350	1,200 x 800 x 145 1,200 x 1,000 x 166
1N	Glass/layer pad	180			1,250 x 1,180 x 130
1A	PET/layer pad	240			1,420 x 1,120 x 115
1A	Glass/layer pad	300			
1A	Can/layer pad	400			

\* The machine outputs depend on the type of containers and packing materials used

\*\* Special pallet sizes upon request

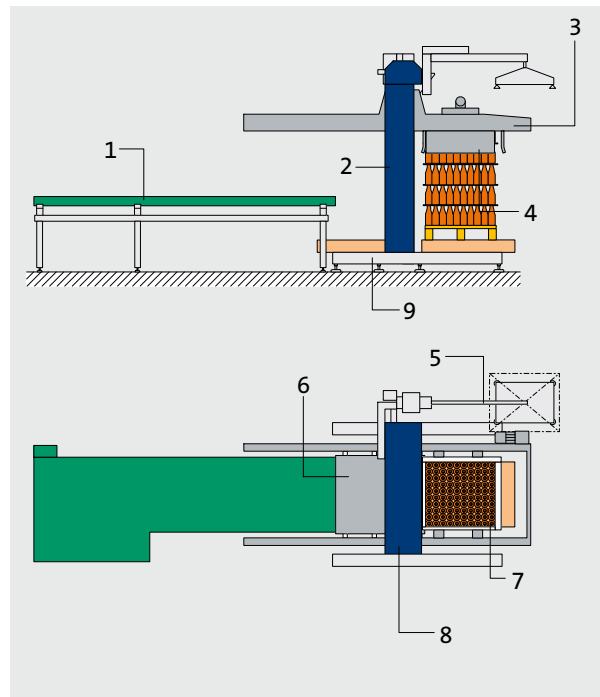
# Pressant Universal 1N

## Figures, data, facts

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### Design features

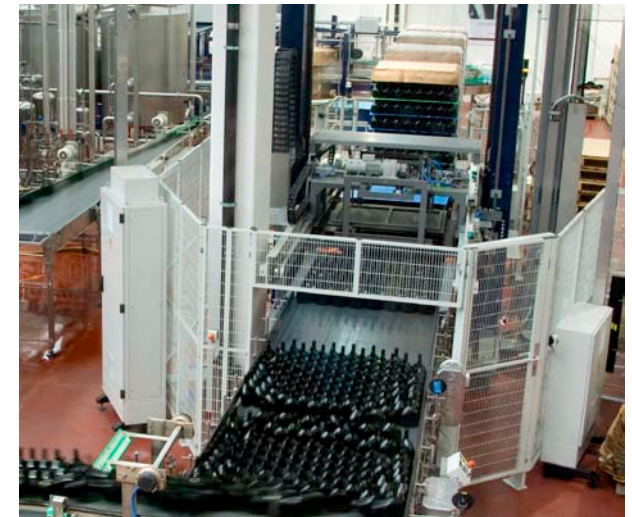
- Modular design
- Programmable logic control (Siemens/Allen Bradley)
- Lifting unit with counterweights
- Lifting unit and sweep-off carriage driven by frequency-controlled motors and maintenance-free toothed belts
- Lifting unit safety stop feature
- Bearings with life-long lubrication
- Easily exchangeable linear guides on lifting unit and sweep-off station
- Height-adjustable sweep-off station
- Automatic adjustment of the layer centring unit on the sweep-off carriage
- Container discharge table either on the top or bottom level



- 1 Container discharge table
- 2 Column
- 3 Sweep-off station in travel design with integrated layer pad gripper
- 4 Bottom layer centring unit
- 5 Layer pad remover
- 6 Transfer plate
- 7 Centring sweep-off carriage
- 8 Lifting unit
- 9 Base frame

### Additional equipment

- Automatic guide adjustment at the sweep-off station
- Automatic safety lock for lifting unit
- Layer pad remover, mounted to unloading station or to container discharge table
- Magazine for layer pads, inverted trays and pallets
- Connection to production data acquisition system (PDA)
- Central lubrication system
- Combination gripper head for lifting top frames, layer pads and pallets
- Equipment for cutting open inverted trays above the layer pad magazine



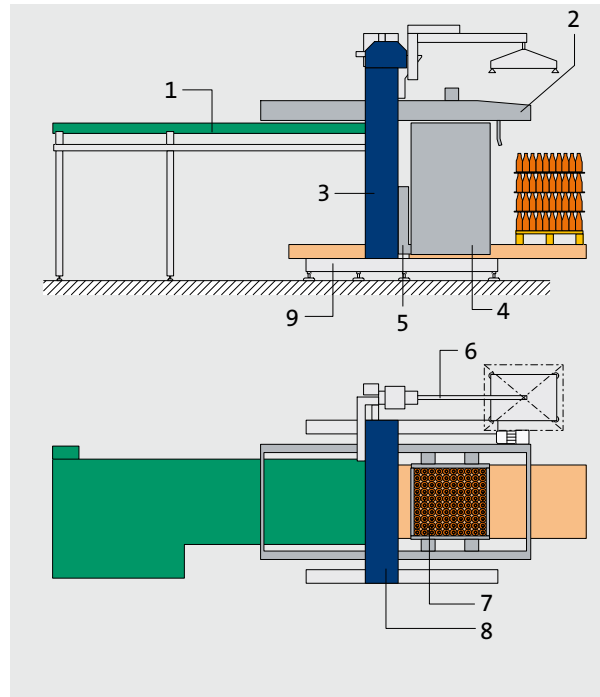
# Pressant Universal 1A

## Figures, data, facts

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### Design features

- Modular design
- Programmable logic control (Siemens/Allen Bradley)
- Lifting unit with counterweights
- Lifting unit and sweep-off carriage driven by positioning drives and maintenance-free toothed belts
- 3-sided centring for the pallet stack
- Lifting unit safety stop feature
- Bearings with life-long lubrication
- Easily exchangeable linear guides on lifting unit and sweep-off station
- Pallet lifting device
- Automatic adjustment of the layer centring unit on the sweep-off carriage
- Container discharge on the top level



- 1 Container discharge table
- 2 Stationary sweep-off station with integrated layer pad gripper
- 3 Column
- 4 3-sided shaft centring
- 5 Pallet lifting unit
- 6 Layer pad inserter
- 7 Four-sided centring sweep-off carriage
- 8 Lifting unit
- 9 Base frame

### Additional equipment

- Automatic shaft doors for securing the fourth pallet side
- Automatic guide adjustment at the sweep-off station
- Automatic safety lock for lifting unit
- Layer pad remover, mounted to unloading station or to container discharge table
- Magazine for layer pads, inverted trays and pallets
- Connection to production data acquisition system (PDA)
- Central lubrication system
- Combination gripper head for lifting top frames, layer pads and pallets



# Pressant Universal 1N and 1A

## Figures, data, facts

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### Sweep-off station

- Sensors for detecting the top layer
- Layer centring from all four sides and transportation to the transfer plate or container discharge table
- The bottom layers are additionally secured during the sweeping-off process by a pneumatic layer pad gripping unit



### Layer pad remover

- Positioning at the column, the container discharge table or stand-alone
- Gripper head for processing layer pads
- Optional: Combination gripper head for lifting top frames, layer pads and pallets



### Container discharge table

- Steel flat-top chain for glass containers
- Plastic flush-grid belt conveyor for safe handling of plastic bottles and cans
- Available in different lengths, depending on the output
- Container discharge in parallel or 90° design

# Pressant Universal 1N and 1A

## Operation and change-over

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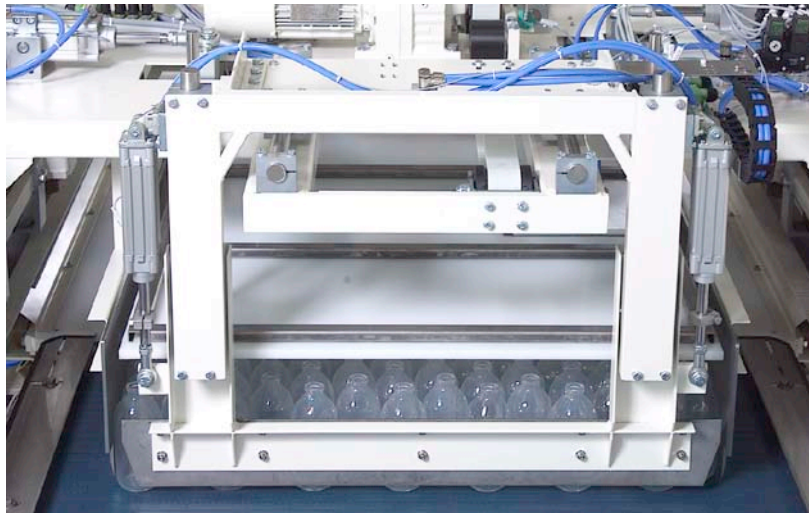
### Operation

- Free-standing operator panel with touch-screen
- Displays production data, operating functions, graphical statuses, malfunction warnings, help texts and diagnostic tools
- Displayed in the selected language



### Change-over

- When changing over the product, the new program is selected on the touch-screen.
- The guide elements in the sweep-off station can be adapted to the new size in a matter of seconds.
- If the product is changed frequently, it is advisable to use an automatic guide adjustment system which is available in motorised design or as a pneumatic version.



# Your benefits

- **Modular design**

The Pressant can be individually adapted to suit the required output, space and product range.

- **Gentle operation**

The frequency-regulated drives are gentle both on the product and on the machine.

- **Low energy requirement**

As the lifting column is equipped with counterweights, the Pressant only requires a small amount of energy.

- **Simple maintenance**

The life-time lubricated bearings and wear-resistant toothed belts reduce the amount of maintenance needed to a minimum.

