



Pressant Universal

High-performance container sweep-off depalletisers



Fast, efficient and gentle



The reliable, gentle handling of bulk containers is the real strength of Pressant Universal container sweep-off depalletisers. The machines work with servo drive technology and can be adjusted very precisely to suit the task in hand. Its modular construction also offers high flexibility when planning into existing line layouts.

At a glance

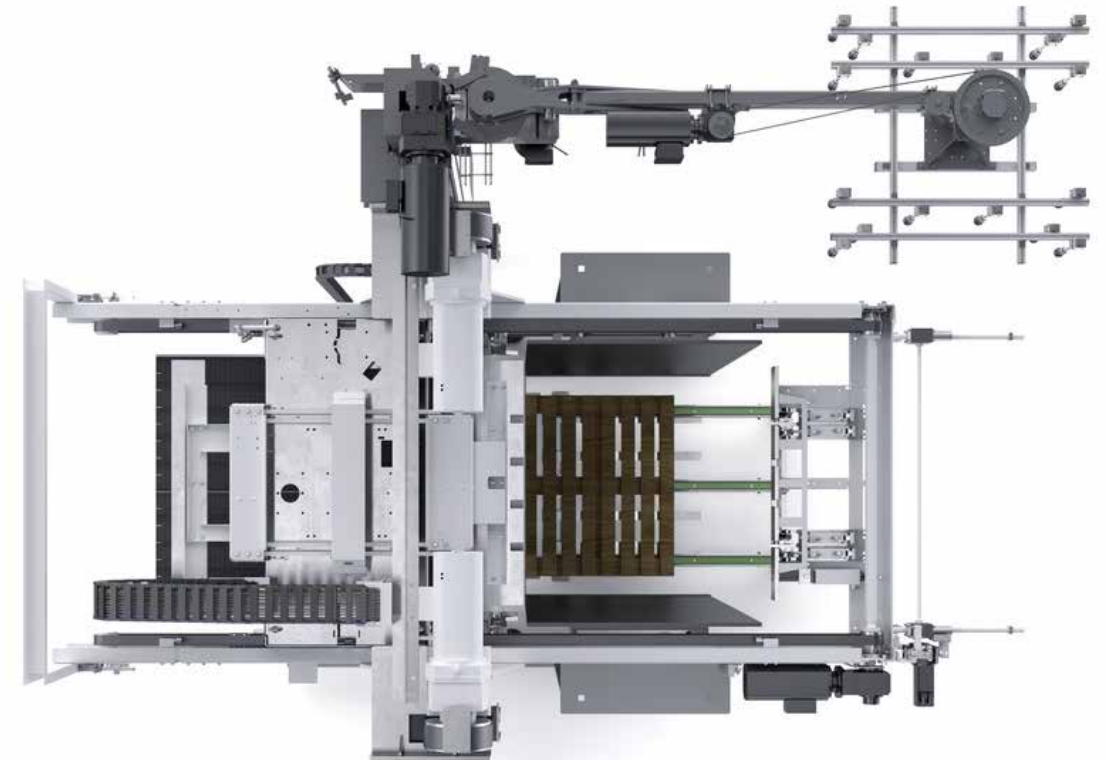
- Depalletising of cans, glass or PET containers with diameters of between 50 and 200 millimetres
- Handling of pallets with inverted trays, pallets with layer pads and inverted trays or pallets with layer pads and top frames
- Targeted adjustment of the output and layout to suit the line
- Output: Up to 400 layers per hour



Method of operation



- Conveyance of the unstrapped pallets into the machine
- Detection of the actual height of each top layer using a sensor and continual definition of the optimum stopping point for each layer, also while taking any container tolerances into consideration
- Positioning of the sweep-off unit above the layer and securing of the pallet structure by centring the layer(s) below
- The sweep-off unit holds the top layer in place from all four sides
- Pressant Universal 1N: Transfer of the layer to a layer plate with subsequent transfer to the container discharge table
- Pressant Universal 1A: the layer is transferred to the container discharge table
- A layer pad remover picks up and disposes of layer pads, inverted trays and top frames



Output range



Model	Processing range*	Output* (layers per hour)	Container diameter (mm)	Height (mm)	Pallet sizes** L x W (mm)
1N	PET/inverted tray	150	min. 50	100 – 470	max.
	Glass/layer pad	180			1,420 x 1,250
1A	PET/layer pad	240			or
	Glass/layer pad	300			1,450 x 1,200
	Can/layer pad	400			

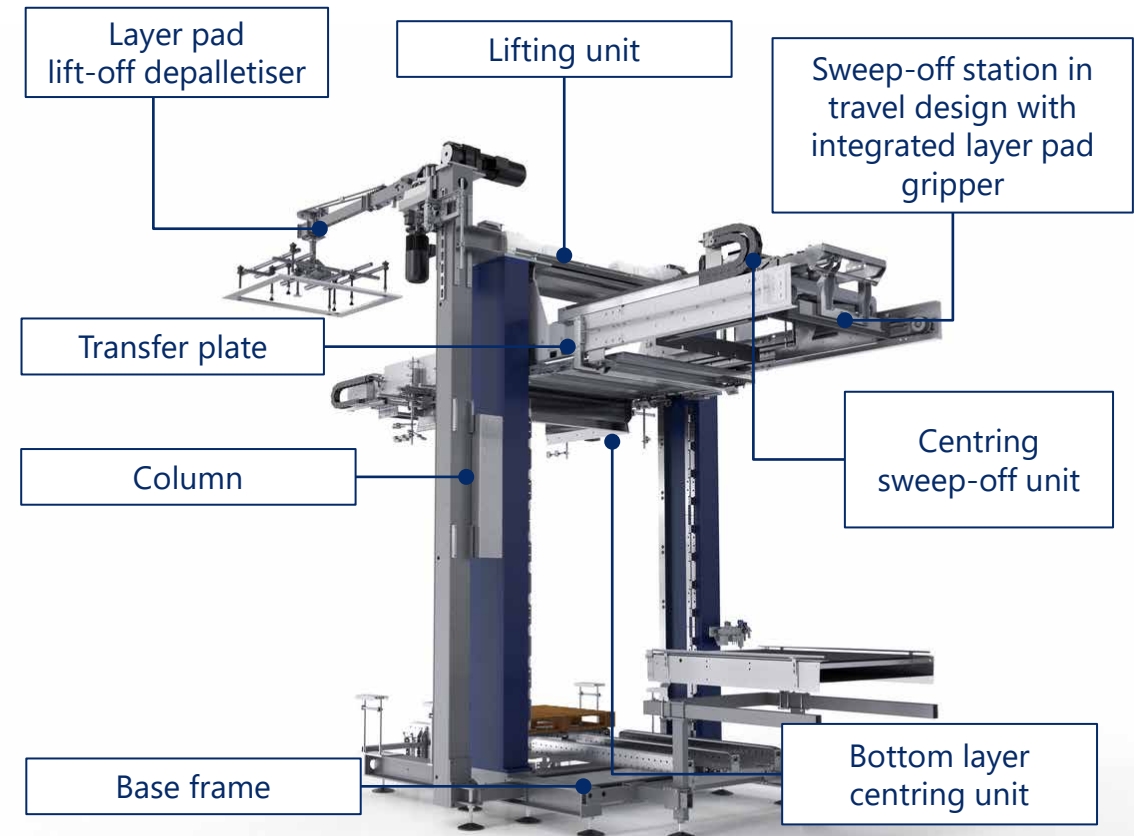
N = level balancing, A = elevator | * The machine outputs depend on the type of containers and packing materials used. | ** Special pallet sizes on request

Pressant Universal 1N with sweep-off station in travel design



Design features

- Modular design
- Height-adjustable sweep-off station
- Automatic adjustment of layer centring unit at the sweep-off unit
- Container discharge table available as a high or low-level option
- Lifting unit with counterweights
- Lifting unit and sweep-off unit driven by servo-controlled motors and maintenance-free toothed belts
- Integrated safety stop feature
- Drop protection for the lifting unit protects persons when entering the safety zone
- Driven by servo-controlled motors
- Programmable logic control



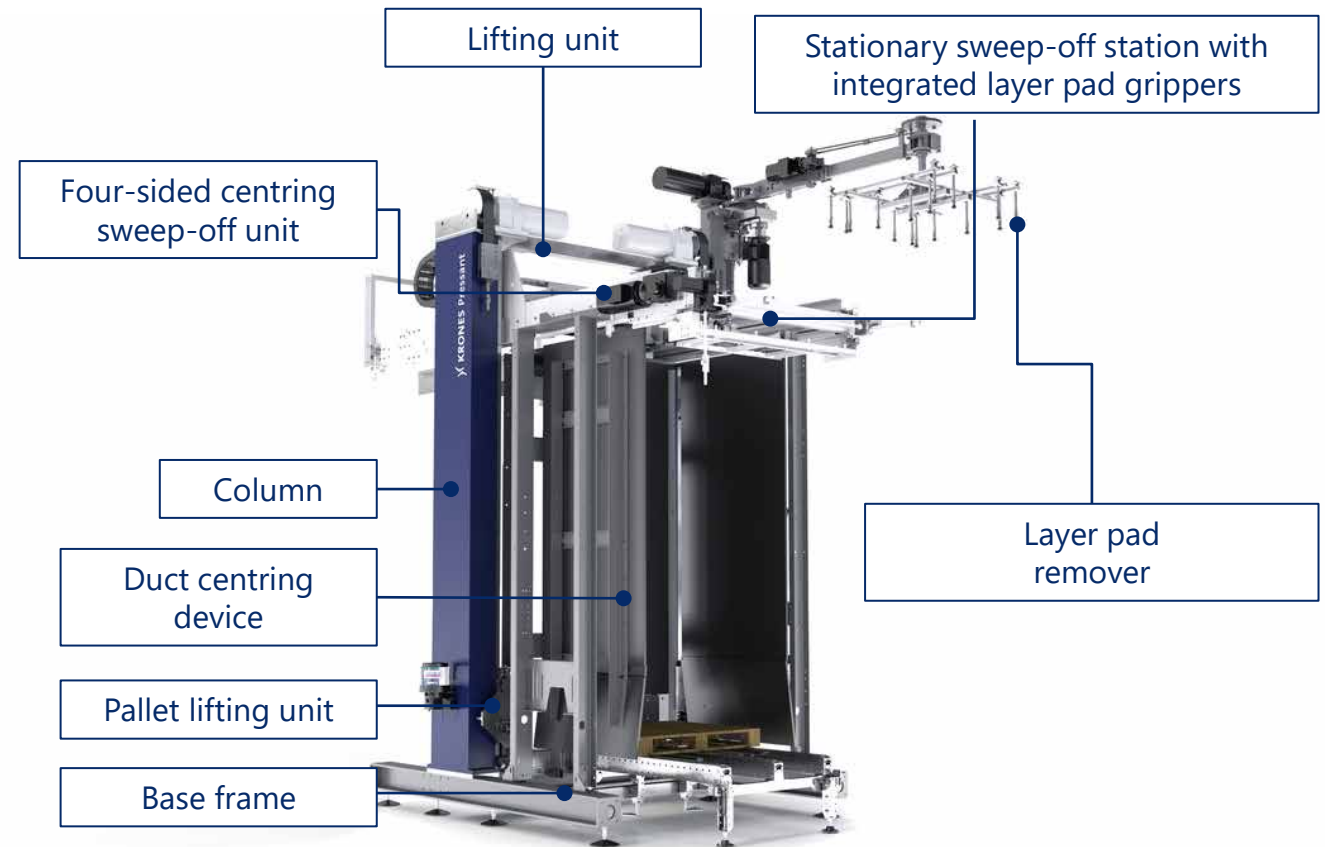
Pressant Universal 1N container sweep-off depalletiser with sweep-off station in travel design and low-level container discharge table

Pressant Universal 1A with stationary sweep-off station



Design features

- Modular design
- Container discharge on the top level
- Container lifting device
- Centring shaft for the pallet stack
- Automatic adjustment of layer centring unit at the sweep-off unit
- Easily exchangeable roller guides on the lifting unit and sweep-off station
- Lifting unit with counterweights
- Lifting unit and sweep-off unit driven by servo-controlled motors and maintenance-free toothed belts
- Integrated safety stop feature
- Drop protection for the lifting unit protects persons when entering the safety zone
- Programmable logic control

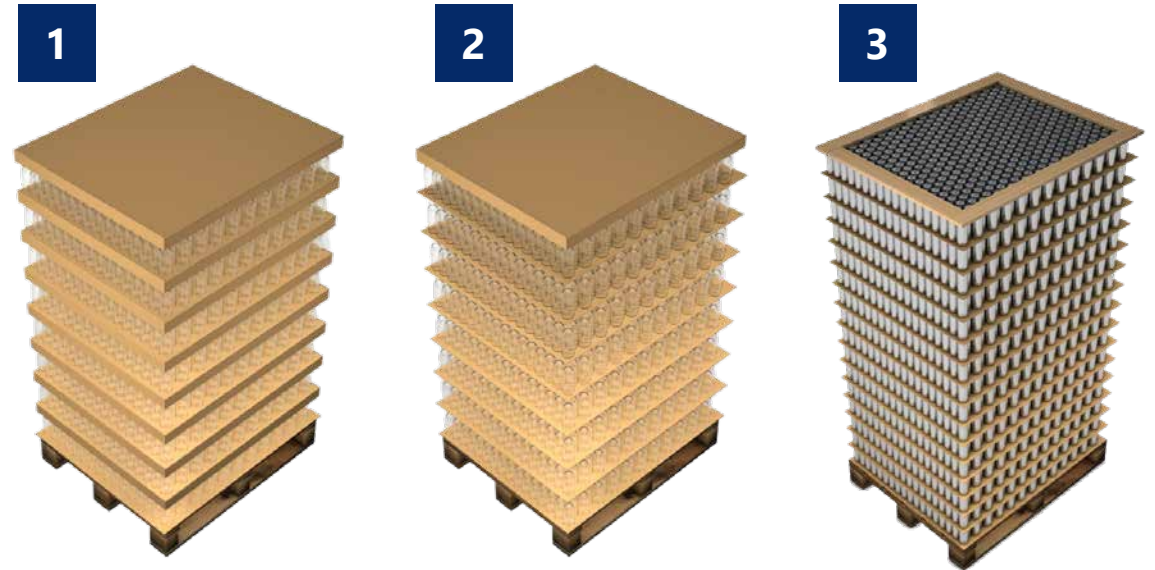


Pressant Universal 1A container sweep-off depalletiser with stationary sweep-off station

Additional equipment



- Layer pad remover - mounted on the sweep-off depalletiser or stand-alone design
- Magazine for layer pads, inverted trays and pallets
- Connection to the production data acquisition system
- 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
- Automatic shaft doors for securing the fourth side of the pallet (only in the Pressant Universal 1A)
- Optionally a pivoting or linear layer pad remover, depending on the required output
- The automatic removal of packing materials facilitates uninterrupted machine operation



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

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

Assemblies



Container sweep-off station

- Sensor for determining each top layer
- Layer centring from all four sides and transportation to the transfer plate or container discharge table
- Additional securing of the layer pad during the sweep-off procedure with a layer-pad gripper unit

Layer pad remover

- Position: At the column or stand-alone
- Gripper head for lifting out layer pads
- Optional: Combination gripper head for lifting out top frames, layer pads and pallets



Assemblies



Container discharge table

- Design with steel flat-top chain conveyor for glass containers
- Plastic flush-grid belt conveyor for handling PET bottles and cans
- Design in different lengths (depending on the output)
- Container discharge in parallel or 90° design



Pressant Universal 1N and 1A in everyday operation

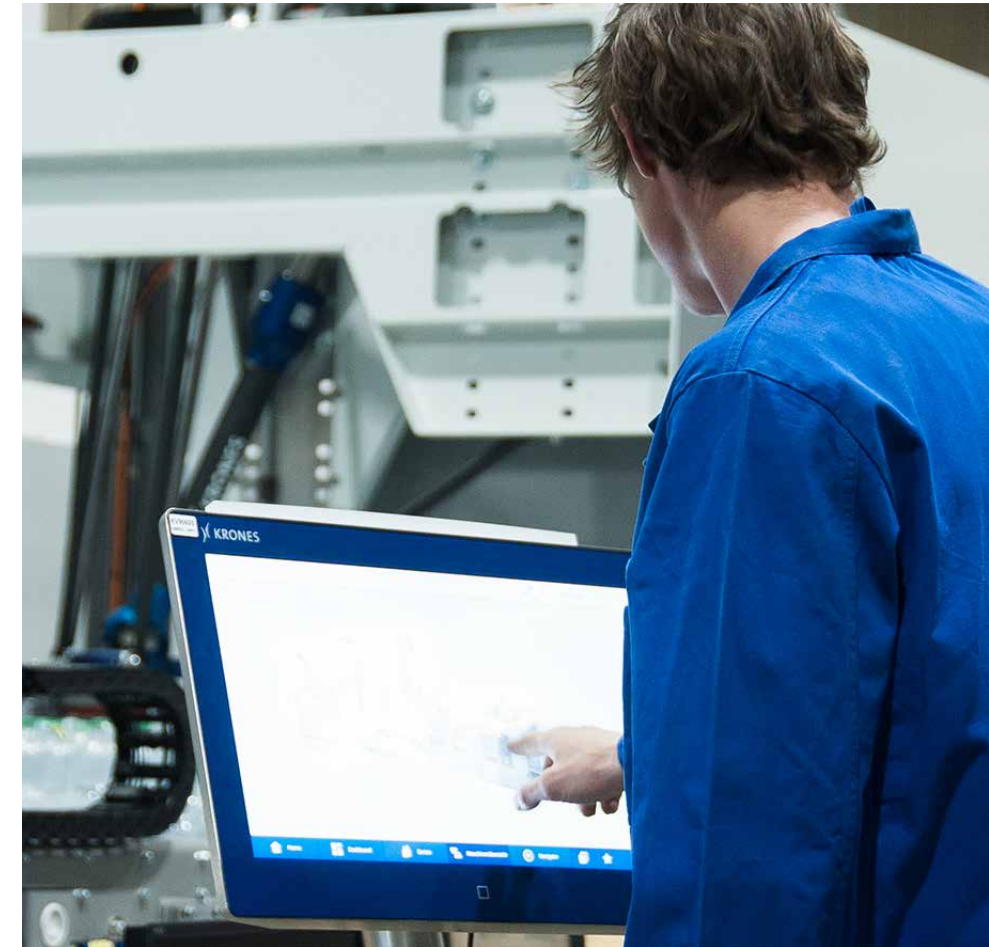


Operation

- Stand-alone main operating station with Connected HMI
- Clear display of operating data, operator control functions, graphical status display, help texts and diagnostic tools
- The texts are displayed in the selected language
- Optional for the Pressant Universal 1A:
Multi-level operation with second operator panel

Change-over

- Selection of the new program on the touch-screen
- Mainly automatic product change-over used for multi-format applications



Benefits to you



Easily integrated machine concept

Pressant Universal container sweep-off depalletisers are flexible thanks to their modular design: They can be individually adjusted to suit the required output and product range, and are easily integrated in the existing line layout.

Gentle container handling

The servo-controlled drive technology guarantees that the containers can be depalletised gently and reliably. It also contributes to the machine achieving a long service life.

Low energy requirement

The use of counterweights in the column with lifting unit allows the machine's energy consumption to remain at a low level.

Easy maintenance

Wear-proof toothed belts ensure that the required maintenance is reduced to a minimum.

Requesting a new machine

You can easily send a request for a non-binding quotation in our Krones.shop.



Everything from a single source



Training sessions at the Krones Academy – trained personnel for an increased efficiency of your line

The multifaceted offer by the Krones Academy ranges from operation, servicing and maintenance courses through to management training. We will gladly also create your individual training programme.

Krones Lifecycle Service – Partner for Performance

It goes without saying that also after the purchase of new machines, Krones takes care of your lines: The Krones LCS experts are always there to help you reaching your goals and turn your wishes into optimal LCS solutions.

KIC Krones cleaning agents make your machine shine

Only if the production environment is immaculate, can your product be brilliant. KIC Krones provides you with the optimum cleaning agents and disinfectants for each individual production step.



**SOLUTIONS
BEYOND
TOMORROW**

