



## KRONES Pressant Compact/Universal Palletiser

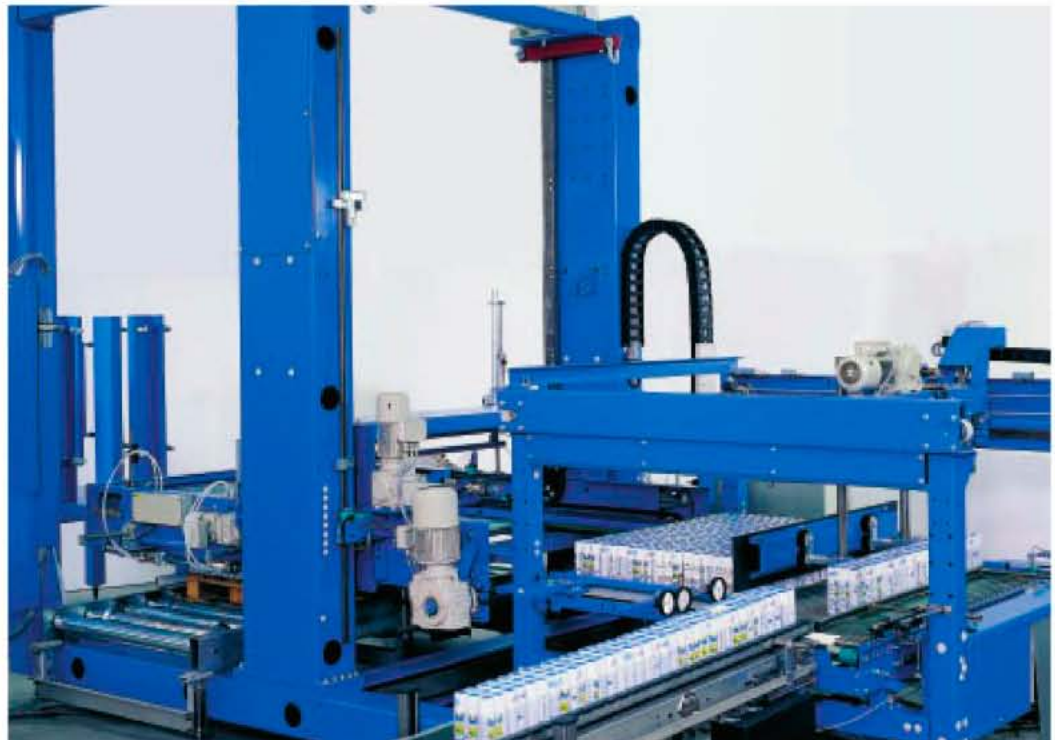
## Gentle product palletising

KRONES palletisers from the Pressant series are capable of palletising a multitude of pack types in a method, which is gentle on the products. The large processing range comprises cartons, trays, shrink packs, returnable beverage crates, sacks and single packets (e.g. sugar). The packs are turned into layers and subsequently

pushed onto a pallet; the shape and the condition of the packs are virtually irrelevant.

All models of this line consist of a grouping station for row or layer preparation and a base machine, which can be supplemented by a layer pad application unit. The lifting unit of the base machine is equipped

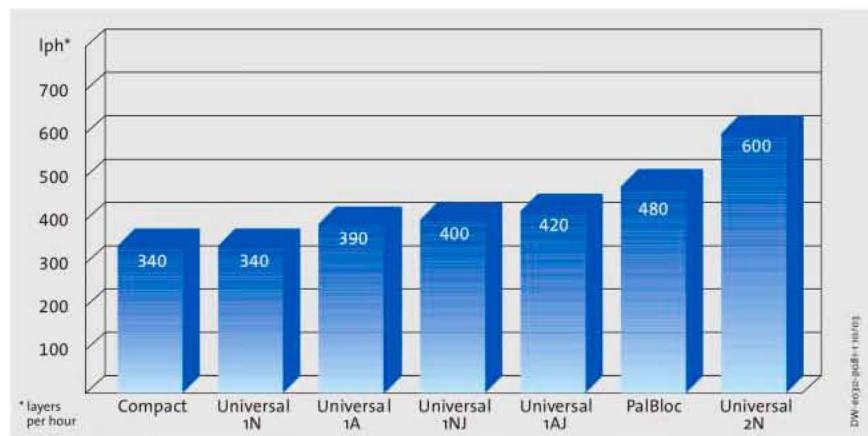
with a frequency-controlled, maintenance-free toothed belt drive and counter weights to lower the energy requirement. As shown on the following page, the individual models have been designed for different output ranges.



### System advantages:

- High operational safety due to robust standard construction
- Economical continuous operation due to high degree of availability
- Short changeover times for product changes
- Easy operation
- Low maintenance

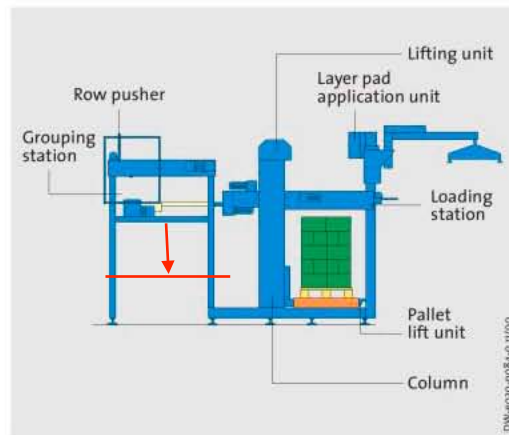
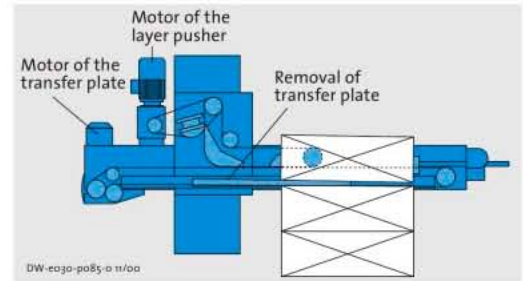
## Output range Pressant palletiser



*Pressant Universal 1A  
palletiser with station-  
ary loading station  
and pallet lifting unit*

## Models

Setting down the layer by removing the transfer plate

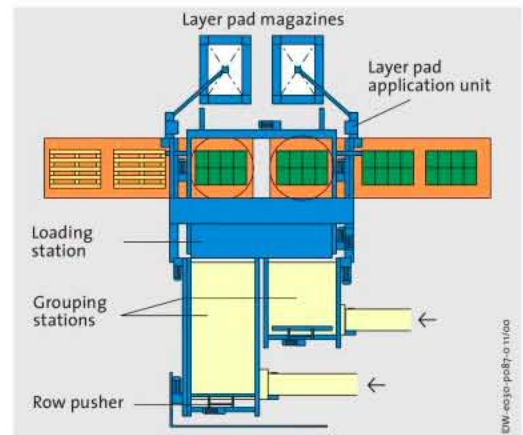


Pressant Universal  
model 1A

### Pressant Universal 1N/1A – loading station with/or without level balancing

The model 1N consists of a height-adjustable loading station with transfer plate. After pregrouping the packs by layer in the grouping station, the layers are pushed onto the transfer plate. Subsequently the loading station is lifted or lowered, and the transfer plate runs across the pallet position. The new layer is centred exactly above the top pallet layer and set down.

Pressant 1A is based on a stationary loading station and a pallet lifting unit. The packs are combined to a layer in a grouping station, which is located above the maximum pallet stack height. Then the transfer plate travels to the pallet position. The pallet lifting unit is lifted until the transfer plate enters exactly above the top layer. Subsequently, the layer is set down, and the pallet is lowered by one pack height.



### Pressant Universal Duplex 2N/2N-2GS Parallel processing of two layers

The pack infeed is at the upper or lower level, depending on the output requirements. The entire machine is wider than model 1N, making it possible for two pallets to be loaded simultaneously with complete pack layers. The version 2N-2GS is equipped with two separate grouping stations. Moreover, 2 pallet turners can be integrated, which turn the pallets by 90° prior to loading.



## Joint component groups

### Grouping station

- Arrangement of incoming packs
- Infeed on one or several lanes, depending on the output
- In the low/medium output range: Possibility of turning the pack at the infeed by 90°
- In the high output range: Optional integration on an inline grouping station with continuous layer preparation
- Drive with frequency-controlled toothed-belt or with positioning system
- Optional: Automatic guide adjustment



### Layer pad application unit

- Supplementation of palletisers with installed or stand-alone layer pad application unit
- High output range: Operation also with two layer pad application units
- Removal of layer pads from magazine by suction grippers
- Magazine feed manually, with forklift, or via pallet conveyor



## Operation and changeover

### Operation

The Pressant palletisers are equipped with a programmable logic control. Operation is via a stand-alone operating panel with touch-screen. A connection to a production data acquisition system is easily possible.

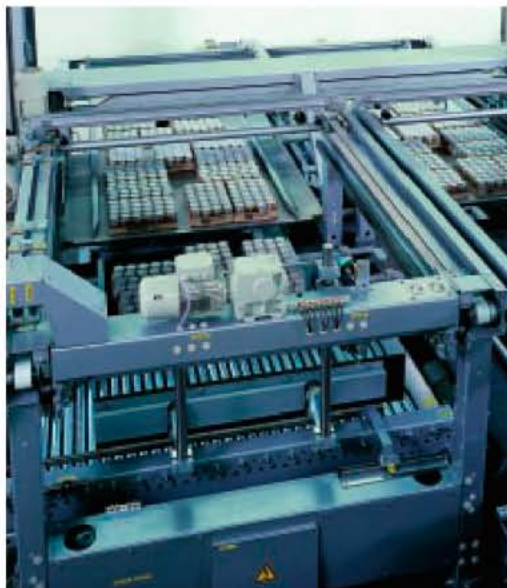
### Changeover

When changing over to another product, the new program is selected on the touch-screen. The guide elements in the grouping station and in the loading station can be adapted to the new size in a matter of seconds. In the case of frequent product changes it is advisable to use an automatic guide adjustment.



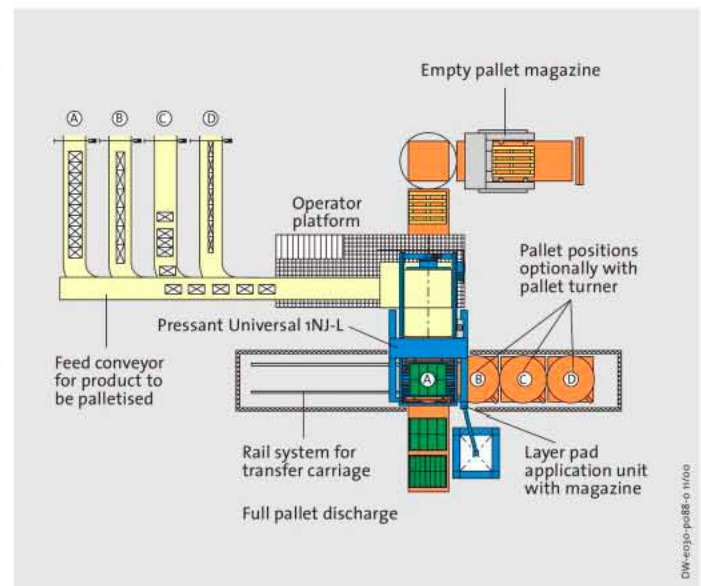
*Loading station  
with automatic  
guide adjustment*

## Examples of application



### Palletising layers with gaps between the packs

The Pressant Universal palletiser processes layer patterns with gaps between the packs. For this pattern, the palletiser is arranged on a pallet turner. During loading, it can be turned by 90°, making it easily possible to palletise complicated layer patterns as well.



### Call-up palletisation with up to six production lines

The Pressant Universal 1NJ-L palletiser features up to six pallets arranged on a travelling base frame. Products of various types and shapes are loaded onto the pallets by layer. When in a production line enough packs of one type have accumulated to form a layer, they are called up and transported to the grouping station. The loading station is adjusted to the respective shape with an automatic guide adjustment. A pallet, ready to be loaded, is driven below the loading station, so that the layer can be placed down.





#### **Palletising sugar packets**

Sugar packets are directed onto several lanes and to an inline grouping station by a transversal distribution unit. Individual packets are turned 180° depending on the layer pattern. The entire layer is then palletised by a Pressant Universal 1NJ, which has a loading station with a split roller bed.



#### **Palletising wooden blocks**

With the Pressant Universal 1N, 1A or 1N-L, even smallest packing goods can be palletised (e.g. pressed wooden blocks). The packing units are driven into the grouping station in rows, and they are pregrouped by layers. After pushing the layer onto the transfer plate, it travels to the loading station. The complete layer is positioned and set down exactly above the pallet.



Type	Pack dimensions L x W x H (mm) min.	Pallet dimensions* max.	L x W x H (mm)
Pressant Compact	150 × 70 × 400	500 × 400 × 400	1,200 × 1,000 × 145 1,200 × 800 × 145
Pressant Universal	150 × 70 × 50	600 × 500 × 500	600 × 1,000 × 145 600 × 800 × 145

\* special pallet sizes upon request

**Design features:**

- Modular design
- Lifting unit with maintenance-free toothed belt drive
- Stopper in lifting unit
- Easily exchangeable linear guides of lifting unit and loading station
- Drives with positioning control
- Touch-screen operation
- Siemens or Allen Bradley controller

**Additional equipment:**

- Pack infeed with flush-grid belt instead of roller conveyor
- External turning unit or corner transfer unit at the pack infeed
- Pallet turner or corner transfer unit at the palletising station
- Automatic safety locking system for lifting unit
- Automatic guide adjustment at the loading station and grouping station
- Layer pad application unit
- Central lubrication system

**Service**

Our worldwide network of sales and service offices provides optimum support even after the start-up of your palletiser. Our modern storage system allows us to supply spare parts immediately if required. Our qualified service engineers ensure fast and reliable machine maintenance and service.



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