



CPL SERIES

**High-level gripper
head palletiser**

High-level gripper head palletiser

The CHRONO-PAL™ **CPL SERIES High-level gripper head palletisers** (compact palletiser) are an innovative blend of robotic and traditional palletising technologies, optimising the benefits of both systems. The CPL product line features an innovative automatic gripper technique and is available in two different versions to suit individual performance requirements. The gripper technique ensures the exact positioning of the bags on to the pallet and, where appropriate, the bags can be overlapped for maximum pallet stability. Our compact

palletisers are quick and reliable, they can palletise from 400 up to 2400 bags per hour with multi pick-up gripper. The palletising process is easily and quickly adaptable to your specific requirements (pallet patterns, formation of layer, products, performance, etc.) The compact design, optional modules and variable positioning possibilities facilitate its adaptation to your available space.

Applications

CHRONO-PAL™ CPL SERIES are designed for euro, industrial or chemical pallets. The palletiser is suitable for any pallet materials and bag types. Its design and performance make it particularly suitable for applications in the food, animal feed and chemical industries.



Features and benefits

- Exact positioning of the bags due to automatic gripper techniques
- High stability of the pallet stack by layer forming and pressing on all sides
- Freely programmable pallet patterns. Up to 70 configurations can be generated
- Possibility of overlapping arrangement during layer forming
- Palletiser concept has proven versatility, even when the bags are not optimally filled
- Universally applicable for all standard bags of 5-50 kg filling weight
- Minimum space requirements and flexibility resulting from compact size and optional modules
- User-friendly with low maintenance requirements

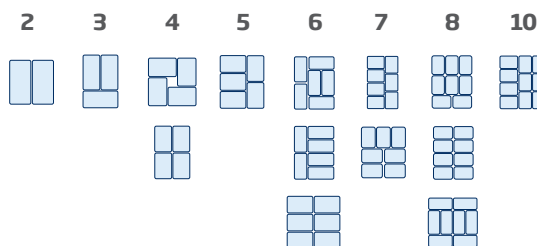
Functionality

An empty pallet is transferred up to the pallet lifting platform from the pallet magazine. The bags coming from the bagging line are lifted, one by one, by a bag lifting device onto the pallet forming platform where they are picked up by the gripper and placed onto the sliding table. The gripper can turn the bags through 180° or 90° in both directions and adjust the position of each bag to correspond with the point defined by the palletising

program. Once the layer is formed, the side conduits are closed in order to optimise the layer alignment with respect to the pallet size format. The sliding table then opens and transfers the layer onto the pallet positioned under it. After layer forming, the layer is pressed underneath the sliding table. Each layer is pressed for optimum compaction. The pallet lowers and the cycle is repeated.

Layer formation

Bags per layer:.....max 15
 Number of layers:.....30
 Number of pallet patterns:.....30



Options

- Automatic placing of intermediate layers or cover sheets to protect the palletised bags
- Bag flattener or square roll conveyor for even product distribution in the incoming bags
- Pallet magazine
- Integrated check weigher
- Turn roller conveyor

Production rate

From **400 up to 2400 bags per hour***

* Depending on bag characteristics, pallet height, layout configuration, etc.

Technical data

Bag sizes:Length: 400 to 1000 mm
Width: 200 to 500 mm
Thickness: 70 to 250 mm

Bag weights:.....Up to 50kg

Layer dimensions:.....Up to 1500 x 1100 mm

Full-pallet load height:.....1850 mm (including pallet)
Optional: 2400 mm

Load weight:.....2000 kg

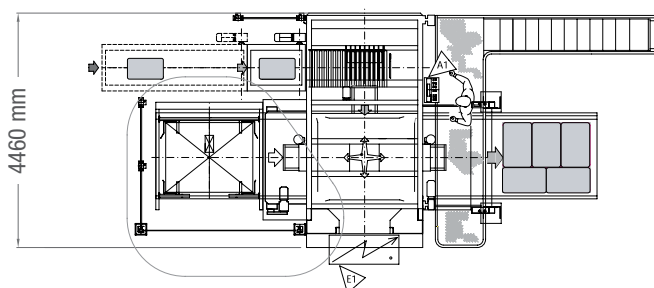
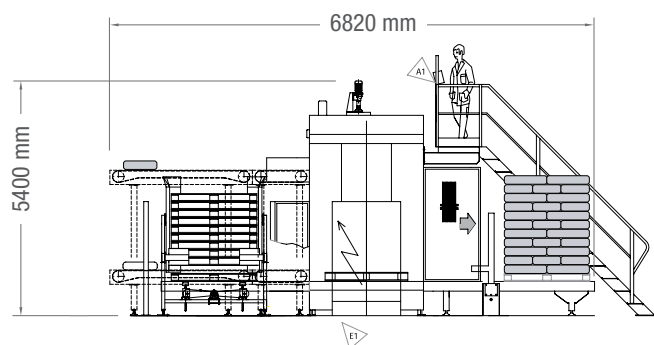
Operating pressure:.....6 bar

Electrical requirements:.....3 AC / 400 V / 50 Hz

Ambient temperature:.....+5°C to +35°C

Noise level:.....< 80 dB (A)

Typical layout



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