



HPL-SERIES

High level layer palletiser

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The **CHRONO-PAL™ HPL SERIES High level layer palletiser** with high level bag infeed has been developed to meet middle and high ranged performance needs of modern bagging lines. The increased

performance of the high level model is achieved by depositing the entire layer onto a pallet, which is lowered step by step and by ensuring the processes run simultaneously.

Applications

CHRONO-PAL™ HPL SERIES High level layer palletiser is designed for bag palletising in layer formats of 3 or 5 bags per layer for euro, industrial or chemical pallets. There are options available for alternative pallet types and layer formats.

The palletiser is suitable for any kind of bags, closed either by sewing or heat sealing, as well as for valve bags, independent of the kind of bag material.



Features and benefits

- Output depending on customer requirements from 900 up to 2,500 bags per hour
- Broad versatility of layer patterns
- Easy to operate and maintain
- Optimum adaptation to the space available due to its modular construction
- Expandable to meet future requirements
- Substantial range of accessories available

Functionality

The filled bags from the bagging line are flattened by a bag pressing device (bag flattener). Afterwards, they are turned to the correct position and formed into layers in the central unit. The layer forming unit compacts the layer laterally on 4 sides by means of electromechanical dams. Afterwards the sliding table is opened and the next layer is deposited on the pallet. Depositing one layer above the next one has also a stabilizing effect on the layer below. This also has a positive effect on the whole pallet. All mechanical movements in connection with layer formation, as well as in the transfer area, are controlled by toothed belts with frequency transducer and encoder. The palletiser is operated via the operator panel included in the central control cabinet. This makes

changes in the sequence/program easy and offers the opportunity to store the changes for later uses. Operation of the palletiser is thus simple and independent of the size of pallets or bags.

1. Start bag transport
2. Bag pressing
3. Bag turning
4. Layer formation
5. Layer compacting
6. Layer positioning



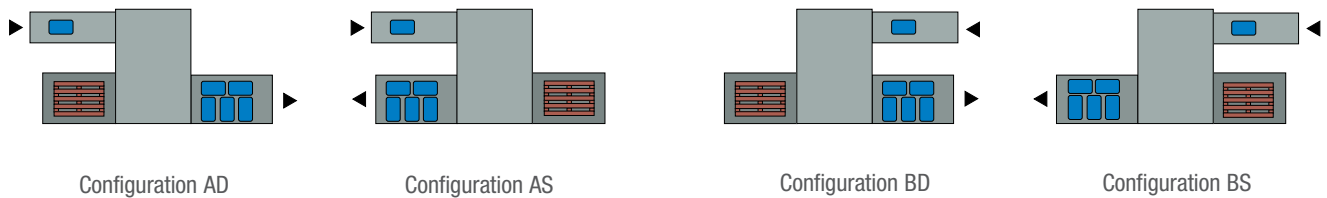
High level layer palletiser

Integration by adaptation

The modular design, with its clearly defined interfaces, allows optimised integration into the factory floor conditions.

The bag palletisers are flexible in their construction, so they meet the customer requirements with reference to the incoming filled bags, empty pallets and the removal of the loaded pallets.

In the early design stages, when selecting the components, our engineers are always aware of the best arrangement for optional integration of the palletiser.



Modular design principle

The structured design and subsequent implementation of peripheral devices provides fully automatic operation. The composition of the entire system, specified according to your particular demands, ensures your requirements are fulfilled completely. This results in trouble-free operation and first-class quality palletising.

Furthermore, the modular construction facilitates the operation of the automatic palletiser, even when performance requirements have to be increased. This ensures you are purchasing state-of-the-art technology to work well into the future.

Standard version modules

- Levelling and flattening device
- Roller conveyor with turning device
- Central unit with layer forming and transferring unit
- Loading roller conveyor
- Pallet magazine for empty pallets with roller conveyor
- Loaded pallet roller conveyor
- Operating and maintenance platform
- Central control unit with separate operating panel and diagnostic support

Flexibility and adjustability of the palletiser is increased by the opportunity to select from a range of **optional components**. We would be pleased to assist you in selecting your specific components:

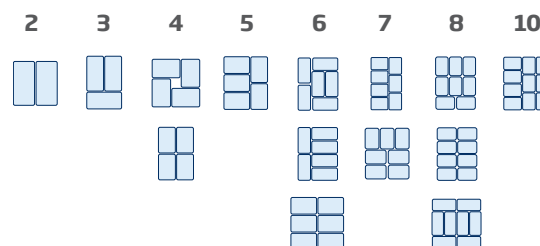
- Additional control programs
- Loading height higher than standard height
- Empty pallet centring device
- Automatic placing of cover sheets made from paper or membranes on the empty pallet or between the layers
- Various glue application devices
- Separate accumulating conveyor
- Separate operating device
- Salt/fertilizer version



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Layer formation

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



Production rate

	HPL-1200	HPL-1600	HPL-2500
3 bags per layer, production rate up to (bags/hour):.....	900	1,200	
5 bags per layer, production rate up to (bags/hour):.....	1,200	1,600	2,500*

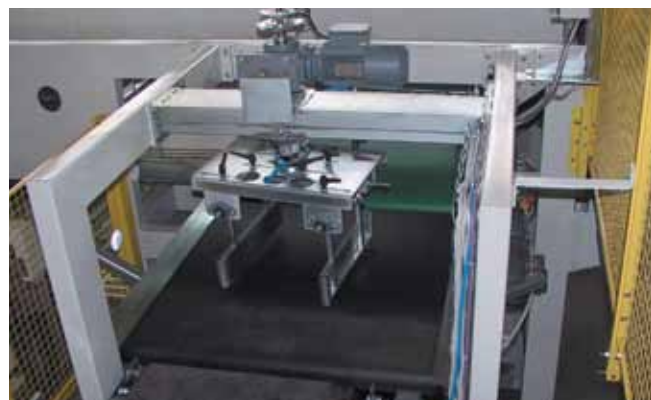
* Only for cement bags in connection with kicker turning device

Technical data

Bag sizes:	Width: 380 to 450 mm Length: 600 to 900 mm Thickness: 120 to 200 mm
Layer dimensions:.....	Min. 1200 mm x 800 mm Max. 1500 mm x 1200 mm
Full-pallet load height:.....	1850 mm x 2400 mm (including pallet)
Load weight:.....	2000 kg
Electrical requirements:.....	3 AC / 400 V / 50 Hz
Operating pressure:.....	6 bar
Ambient temperature:.....	+5°C to +40°C
Noise level:.....	< 80 dB (A)

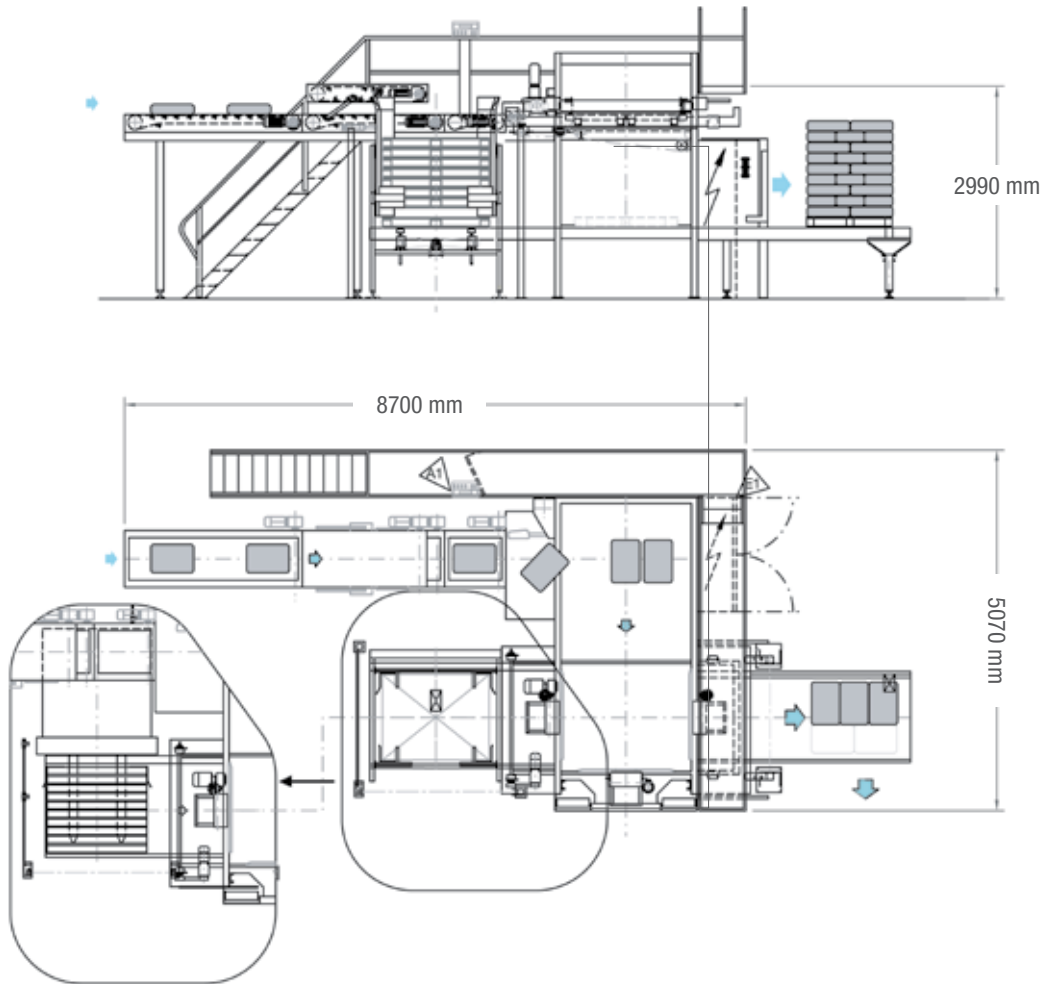


Bag pressing device acting as bag flattener with damping device



Electromechanical devices turn the incoming bags by 90°

Typical layout



European Head Office

Premier Tech Chronos B.V.
Meerheide 40
5521 DZ Eersel
THE NETHERLANDS
☎ +31 (0) 497 514 988
info-eu@ptchronos.com

European Regional Offices and Manufacturing Plants

Premier Tech Chronos S.R.L.
Parma, ITALY
☎ +39 0521 29 60 11

Premier Tech Chronos Ltd.
Nottingham, UNITED KINGDOM
☎ +44 (0) 115 935 1351

Premier Tech Chronos GmbH
Hennef, GERMANY
☎ +49 (0) 2242 9335 0

Premier Tech Chronos S.A.
Longjumeau, FRANCE
☎ +33 (0) 1 60 11 31 32



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