

PL H-Series



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**AUTOMATIC BAG PALLETIZING SYSTEMS** ●●●

**CHRONO-PAL™ PL 1200H, PL 1600H, PL 2500H**



**CHRONOS**  
RICHARDSON



# PALLETIZING

## HIGH MODEL PALLETIZER

PL H-Series

The product series **CHRONO-PAL™ PL 1200H/1600H/2500H** with high level feeder 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 the fact that processes are running simultaneously.

### APPLICATIONS

The CHRONO-PAL™ PL 1200H/1600H/2500H automatic systems are designed for bag palletizing in layer formats of 3 or 5 for euro, industrial or chemical pallets. There are options available for alternative pallet types and layer formats.

The pallets' sizes are 800 x 1,200 mm or 1,000 x 1,200 mm. The maximum load is 2,000 kg. The max. loading height is 1,850 mm or 2,400 mm with the special models.

The bag sizes vary between  
380 - 450 mm (width)  
600 - 900 mm (length)  
120 - 200 mm (height).

You can handle either paper or plastic bags, filled with granules, powders or pellets.

The palletizer 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/hour
- Broad versatility of layer patterns
- Easy to operate and maintain
- Optimum adaptation to the space available due to modular way of construction
- Extendable to meet future requirements
- Substantial range of accessories available



PALLETIZING SYSTEMS  
FROM CHRONOS RICHARDSON

PRECISE AND FAST

CHRONO-PAL™

in sets of 3 (bags/hour)  
in sets of 5 (bags/hour)

PL 1200H    PL 1600H    PL 2500H

900                    1,200  
1,200                    1,600                    2,500\*

\* Only for cement bags in connection with kicker turning device

TECHNICAL DATA

Air consumption	50-100 NI/min
Operating pressure	5-6 bar
Electrical requirements	400 V, 3 phases, 50 Hz
Control voltage	24 V
Noise level	75-80 dB (A)



**AUTOMATION**  
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INNOVATION



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### ●●● FUNCTIONALITY (EXAMPLE PL 1200H)

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 palletizer 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 palletizer 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

### ●●● INTEGRATION BY ADAPTATION

The modular design with its clearly defined interfaces allow optimized **integration into the shop conditions.**

The bag palletizers are flexible in their construction, so they meet the customer requirements with reference to the income of the 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 palletizer.



configuration AD



configuration AS



configuration BD



configuration BS



LAYER AND ROW FORMATION



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### MODULAR DESIGN PRINCIPLE

The targeted employment 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 palletizing.

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

#### Modules of the standard version

- 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 palletizer 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 programmes
- Loading height higher than standard height
- Empty pallet centering device
- Automatic placing of cover sheets made from paper or membranes on the empty pallet or between the layers
- Various glue applying devices
- Separate accumulating conveyor
- Separate operating device
- Salt/fertilizer version

### LAYER FORMATION

	2	3	4	4	5	6	6	6	7	7	8	8	8	10
<b>Layer dimensions [mm]</b>	1,000 x 1,000	1,200 x 800	1,200 x 800	1,090 x 1,090	1,200 x 1,000	1,200 x 900	1,200 x 900	1,200 x 1,200	1,200 x 700	1,160 x 1,000	1,200 x 900	1,200 x 900	1,100 x 1,100	1,200 x 1,100
<b>Pallet dimensions [mm]</b>	1,000 x 1,100	1,200 x 800	1,200 x 800	1,100 x 1,100	1,200 x 800	1,200 x 800	1,200 x 800	1,200 x 1,200	1,100 x 800	1,200 x 1,000	1,200 x 800	1,200 x 800	1,100 x 1,100	1,200 x 1,000



UTMOST PALLETIZING OUTPUT FOR HIGHEST DEMANDS



Bag pressing device as bag flattener with damping device

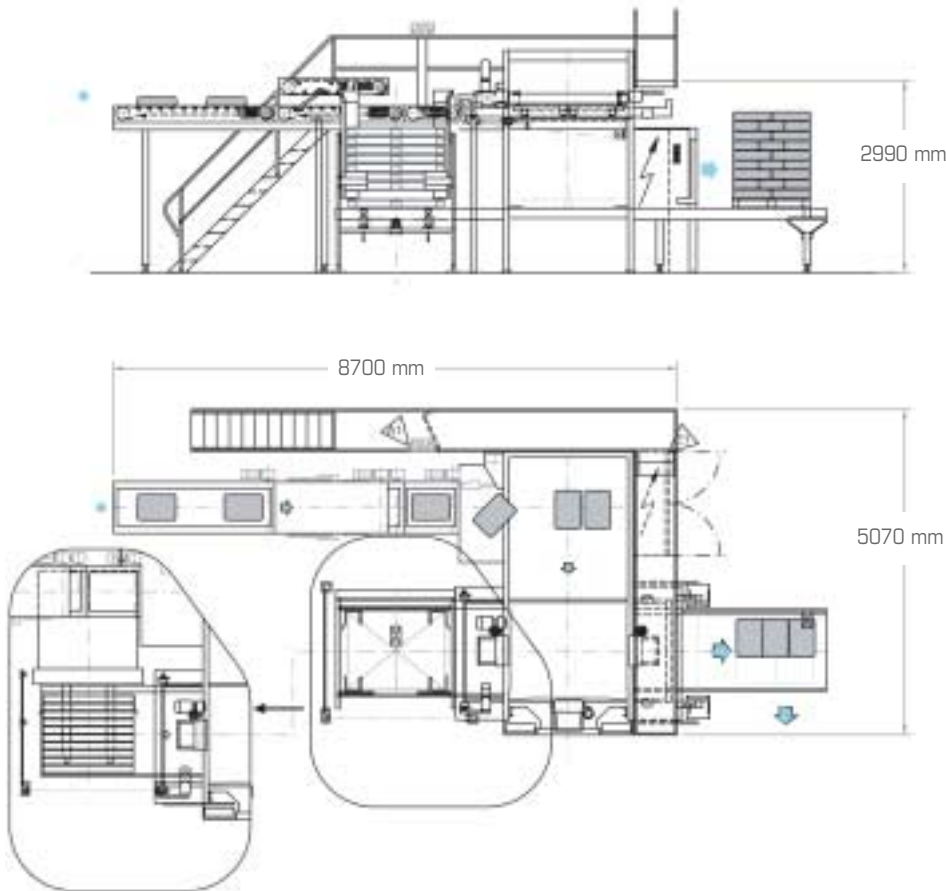


Electromechanical devices turn the incoming bags by 90°



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For nearly 125 years now, **Chronos Richardson Systems** has made its mark on the European and Asian markets thanks to its innovative packaging and processing solutions and approach to complete integrated system projects tailored to customers' individual needs. Armed with its experience, the inventor of the first automatic weigher is now recognized as a specialist in weighing, batching, bagging and palletising for the food, feed, chemicals, plastics, fertilizer, milling and cement industries.

**Chronos Richardson Systems** is part of the Industrial Equipment Group of Premier Tech, one of the largest players in the field of industrial flexible packaging worldwide.

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