

PL C Series



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AUTOMATIC BAG PALLETISING SYSTEMS ●●●

CHRONO-PAL^{MD} PL 400C, PL 600C, PL 900C, PL 1200C



CHRONOS
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PALLETISING

COMPACT PALLETISERS

PL C Series

The **CHRONO-PAL™ PL 400C, PL 600C, PL 900C and PL 1200C** compact palletisers are an innovative blend of robotic and traditional palletising technologies, optimising the benefits of both systems. The **CHRONO-PAL™ PL C** product line features an innovative automatic gripper technique and is available in four different versions to suit individual performance requirements. The gripper technique ensures the exact

positioning of the bags onto the pallet and, where appropriate, the bags can be overlapped for maximum pallet stability. The palletising process is easily and quickly adaptable to your specific requirements (pallet patterns, formation of layers, products, performance, etc.) The compact design, optional modules and variable positioning possibilities facilitate its adaption to your available space.

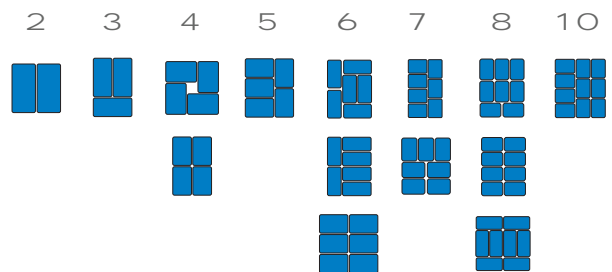
APPLICATIONS

The **CHRONO-PAL™ PL C Series** palletisers offer optimised solutions for many requirements. All standard industrial pallets (materials and dimensions) can be used and all palletiser models can be adapted to maximum loading height of 1,850 mm or 2,400 mm (max. load capacity of 2,000 kg).

The **CHRONO-PAL™ PL C Series** is suitable for any material and type of bags. Its design and performance make it particularly suitable for applications in the food, animal feed and chemical industries. The palletiser concept has proven versatility, even when the bags are not optimally filled.

LAYER FORMATION

Bag per layer	max. 10
Number of layers	max. 12
Number of pallet patterns	max. 14
Width	max. 1 650 mm
Length	max. 1 300 mm



FEATURES AND BENEFITS

- Exact positioning of the bags due to automatic gripper techniques
- High stability of the piled bags by layer forming and pressing on all sides
- A wide range of pallet patterns - up to 14 configurations - can be generated
- Possibility of overlapping arrangement during layer forming

- Sliding table for layer forming and lateral layer pressing
- High performance from 1,200 up to 2,400 bags per hour with special applications
- 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

OPTIONAL MODULES

- 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

- Modified in-feed system and gripper, allowing simultaneous handling of multiple bags, increase performance of the **CHRONO-PAL™ PL 1200C** to a maximum of 2,400 bags per hour (only possible for certain bag formats)

●●● PROCESS FLOW

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 conveyor 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. Afterwards the pallet lift moves upwards one more time to press the layer against the sliding table for optimum layer compaction. The pallet lifting platform is then repositioned at the same transfer level for the following layer. The next cycle then starts all over again.

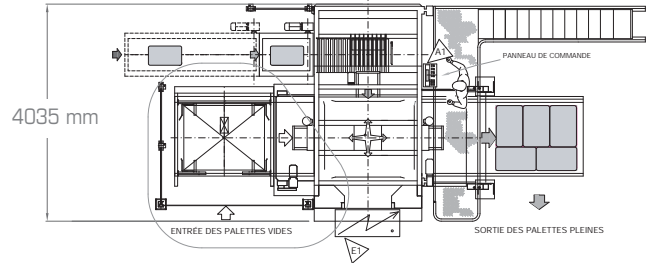
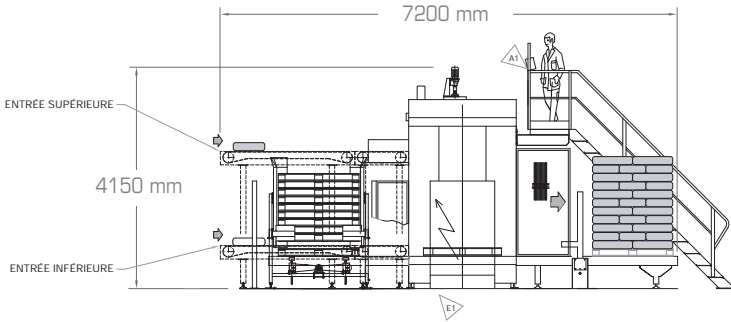
An easy to use operation system with a clear control panel, minimum maintenance costs, high safety standards and a low noise level, makes the machine extremely user-friendly. Program modifications for different layer formations, pallet patterns and pallet sizes can be accomplished simply and quickly.



AUTOMATION

THROUGH

INNOVATION



Output

Power consumption

Air consumption

Operating pressure

Protection

Environmental temperature

Noise level

400 to 1,200 bags/hour*

6-12 kW

60 NI/min

min. 6 bar

IP 54 (minimum)

+ 5 °C up to + 40 °C

70-75 dB (A)



* Depending on bag types and/or filling weight. With the use of the optional module, the performance is increased to a maximum of 2,400 bags/hour.

WORLDWIDE PRESENCE

Rivière-du-Loup, CANADA • Brea, USA • Hennef, GERMANY

Viry-Châtillon, FRANCE • Nottingham, UNITED KINGDOM
Parma, ITALY • Bangkok, THAILAND • New Delhi, INDIA

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.

Find your solution with Chronos Richardson Systems.



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