Hoonga

Packaging Systems



Since 1970, Hoonga has been persistent in its efforts to supply packaging systems in global markets, keeping up with fast changing trends and customers' needs.
Continuous development and creative thinking enable Hoonga to provide innovative solutions and applications for automatic packaging systems.

Cartoning Machine

HC 400

HC 400

Continuous motion horizontal cartoner HC 400 is an up-graded model to improve the production speeds of up to 400 cartons per minute, keeping the basic design and platform of HC 300. Servo drives on all the machine movements provide a precise control and reliability at high speed production and electronic cams are controlled by HMI touch screen panel. HC 400 cartoner meets market needs for operation safety and good accessibility. It also features efficient integration compatibility, flexibility and reliability. HC 400 achieves optimum production outputs across a wide variety of products by the innovative product transfer via chain and pulleys combined with safety clutches on all main drives movements.

Industry Standard PC Control System

Innovative production management and operations are made possible by incorporating an industry standard PC control system with a color LCD touch screen interface. Controlled access to the machine is provided by assigning user accounts in order to heighten the security level involved with production. Audit trails allow supervisors to monitor the status of the machine and production by inspecting chronological operation records. The system is also capable of providing self diagnosis and detailed trouble shooting reports. The fastest format changeover is enabled through simple mechanical tool changes followed by selecting preset parameters of a specific format on the control system. Servo drives and the PC control system fully automate the operation and provide accommodating environment for inexperienced operators. The entire operation manual is stored in the PC control system for the operator's convenience.

Ergonomic Design

It is constructed in balcony design to comply with the current GMP directives for easy access of maintenance and cleaning. Ergonomic operator friendly design such as flat carton supplying magazine, product in-feed conveyor and carton closing zone allow operator easy and convenient accessibility to all parts, consequently it leads to quick and easy changeovers in 30 minutes.

Simple and Stability

Three (3) head rotary carton feeder performs stable carton pick-up, forming and placing into the continuously running transport chain. Additionally it reduces adjustment times of format change and start-up wastes. Horizontal infeed conveyor also achieves stability of product stacking onto the conveyor even at high speeds.

Secure Insertion of Products and Leaflet

Continuous pushing motion is driven by a timing belt with a safety measure where the operation will halt once pushing overload is detected. Leaflets are folded and inserted into the cartons in advance prior to the insertion of products. This eliminates any overload that may arise while inserting the product and leaflet at the same time.



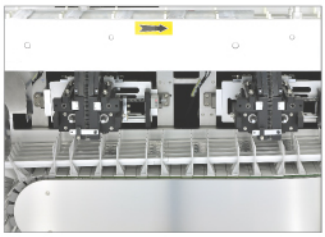
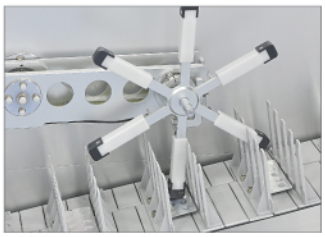
Components of HC 400

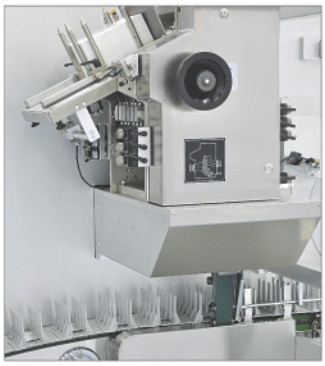
- Toothed belts product transport with buckets
- Detect the product presence during its transport in the bucket chain
- Adjustable flat carton magazine for high capacity easy to load conveyor belt
- Three rotating arms with suction cups for carton pick- off and pre-opening
- 17 continuous motion pushers for smooth product inserting into carton complete with pushing overload detection
- Automatic product rejection in case of missing carton/leaflet or incomplete product
- Carton exit by motorized side belts
- Automatic faulty carton rejection system
- Minimum level control for cartons and leaflets
- Carton presence detection in product insertion position
- Correct leaflet pick-up
- Output speed indicator
- Polycarbonate safety guards
- Touch screen control operator panel with display
- Emergency stop button on touch panel
- Safety controls

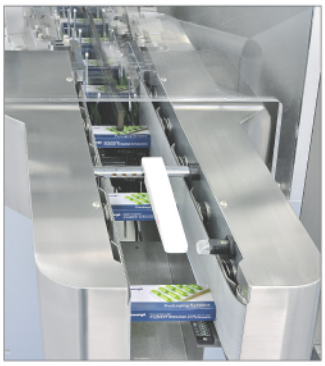
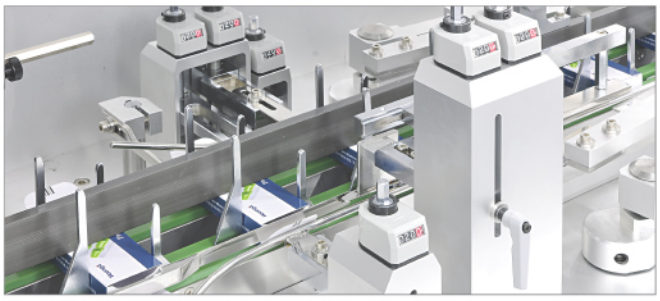
Available options on HC 400

- Various automatic product feeding systems on the bucket conveyor
- Various coding options with emboss, ink-jet, laser-jet, etc.
- Code reading and control system for leaflet and carton
- Hot melt gluing closure
- Leaflet folding unit
- LUMAT unit for leaflet detection
- Booklet feeding
- Track & trace system
- IQ/OQ validation



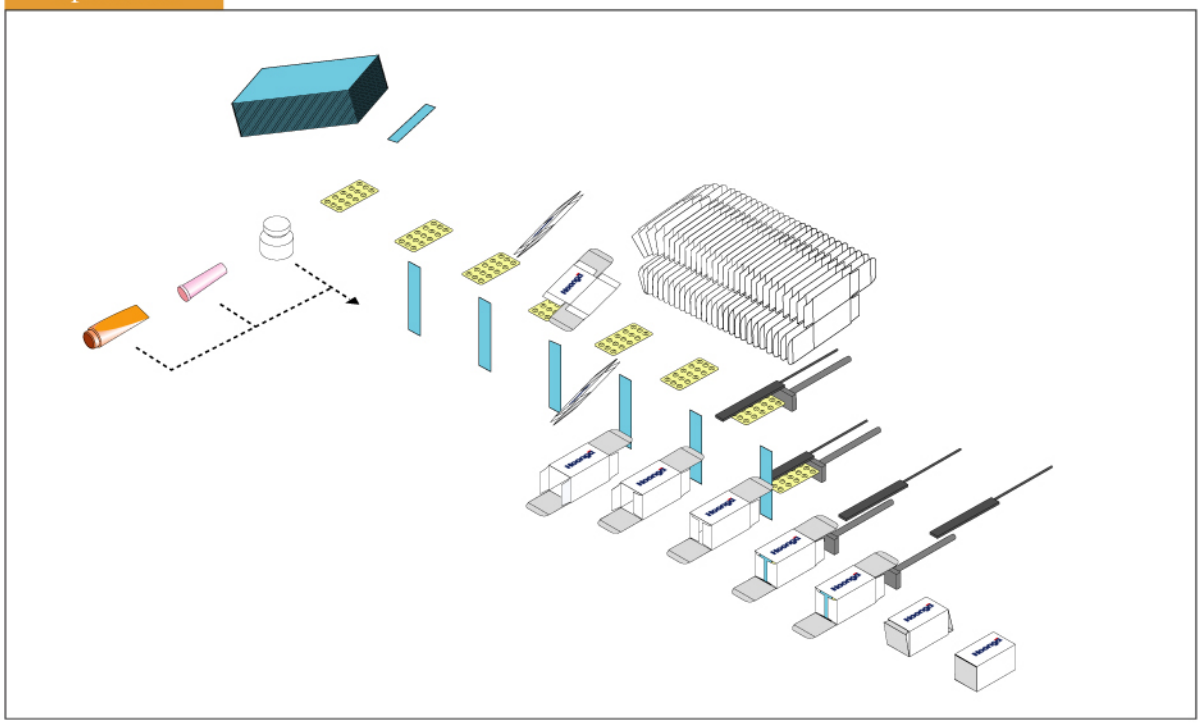


1	2	3
4	5	6
7		

1. Dual stacking magazine of blisters with stable product infeed conveyor
2. Mechanical product quantity detector before insertion of carton
3. Coding and code reading system
4. Leaflet folding unit with supplying system
5. Three (3) head rotary carton feeder
6. Final product discharge with rejection system
7. Carton flap closing

Operation



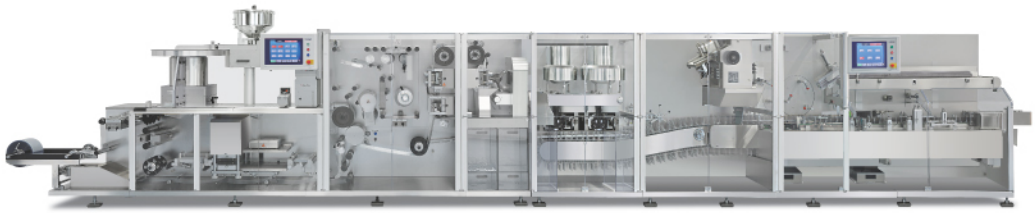


High speed continuous motion horizontal cartoner

More simple, stable and flexible design

Guaranteed process quality in compact design

Ergonomic design for convenient operator process



Compact configuration of blister and cartoner for high productivity, HM 600R + HC 400

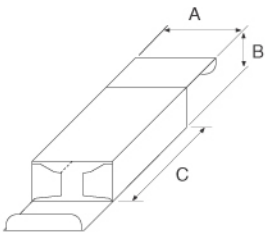
TECHNICAL DATA

HC 400

Output max. 400 cartons/min

Size range

A min. 30 mm ~ max. 90 mm
B min. 15 mm ~ max. 85 mm
C min. 70 mm ~ max. 150 mm



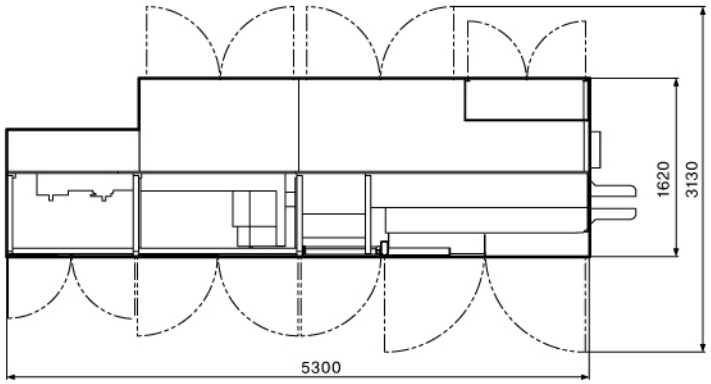
Special size is available upon request.

Utilities

Electric power connection	380V, 3-phase, 50/60Hz (Other voltages available upon request)
Electric consumption	6 KVA
Compressed air pressure	6 bar in 10% fluctuation
Air consumption	200 NL/min.

Machine dimensions

Length	approx. 5,300 mm
Width	approx. 1,620 mm
Height	approx. 1,720 mm
Weight	approx. 4,500 Kgs



Contents on this catalogue are to assist understanding of the machine only and are subject to technical modifications without prior notice. The final specification is as per our quotation offered to you exclusively.

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