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.



Blister Packaging Machine

HM 600R

HM 600R

Newly developed high speed blister machine HM 600R is capable of production speeds up to 600 blisters per minute utilizing a rotary sealing system. Lateral punching speed of 300 cycles per minute, dual lane architecture and a trouble -free servo drive system permits exceptional productivity.

Industry Standard PC Control System

Innovative machine operation and production management are possible by incorporating an industry standard PC control system with a color LCD touch screen. Controlled access to the machine is provided by assigning personnel user accounts with security levels. 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. Fast format changeovers are possible 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 a user friendly environment for inexperienced operators. The entire operation manual is stored in the PC control system for the operator's convenience.

Self-Adjusting Indexing

Servo motor drive technology is embedded in three separate zones for better control. Forming Station consists of gripper -indexing systems and Sealing and indexing drum with integrated with cooling controlled by servo motor. A fast driving zone which is a combination of Emboss Coding, Perforation and Punching Stations also utilizes a servo motor controlled rotary indexing system.

Easy and Fast Format Mold Changeover

Self-adjusting indexing with servo drives and the tool-less changeover design for mold sets allows for fast and easy mold changeover. (approx. 20 - 30 minutes)

Forming Perfection

Pre-heating station has three individual temperature controlled sections to produce excellent forming results without any temperature deviation. Uniform temperature across the pre -heating station eliminates wrinkles and bending problems.

GMP Compliant Design

Balcony construction with sloped bottom design, clean and simple structure of stations and frameless safety doors allow easy and fast cleaning which minimal dust accumulation.

Material Flexibility

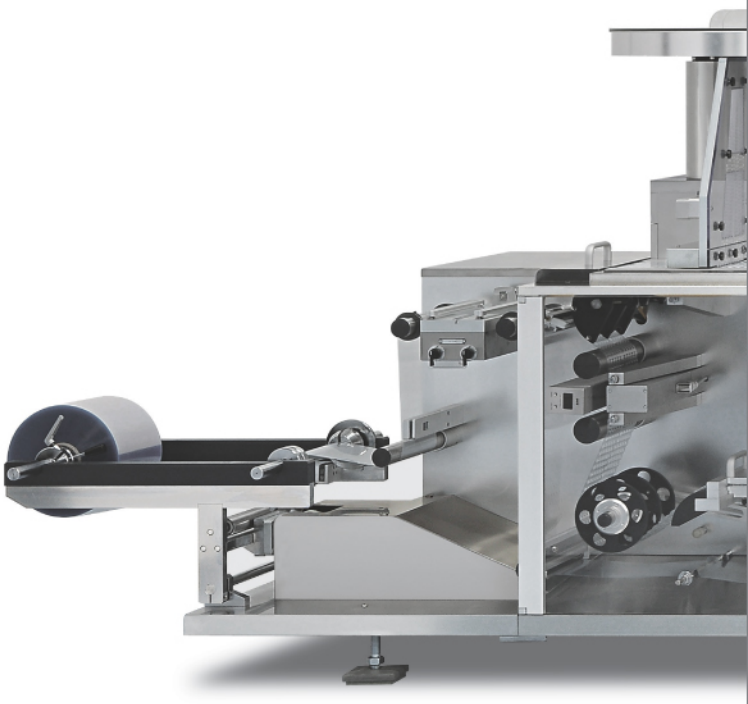
HM 600R handles a wide selection of blister packaging materials including all conventional thermoforming materials such as PVC, PVC/PVDC, PVC/ACLAR, PP and COC along with aluminum for cold forming.

Feeding Zone

Separation of the feeding zone from the production and driving zone minimizes cross contamination and eliminates any vapor. The position and height of the vibrating bowl feeder can be adjusted for optimum operation and easy maintenance.

Continuous Sealing

The continuous motion rotary sealing mechanism allows for faster and easier product feeding even when coupled with simple and low cost feeding systems. This provides a much more economical and efficient feeding solution compared to the high output intermittent motion systems. The upgraded sealing and cooling drums provide the best sealing condition.



Fast Driving Zone

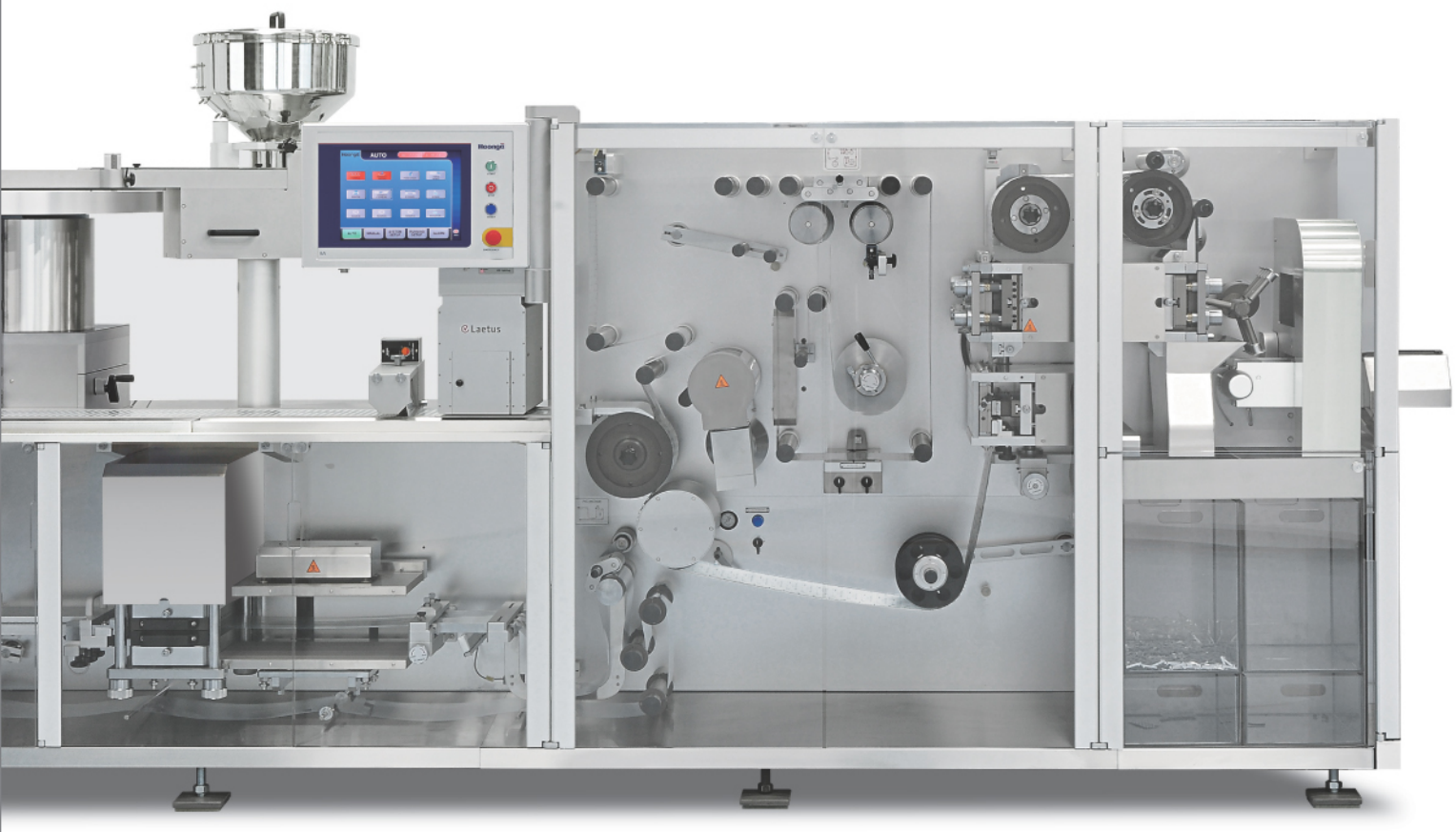
Perforation, Emboss coding and Punching stations design occupies less space with smaller format molds. Horizontal punching system leads to perfect blister discharging and easy integration of blister in-line operation. This fast driving zone operates at the maximum of 300 cycles per minute.

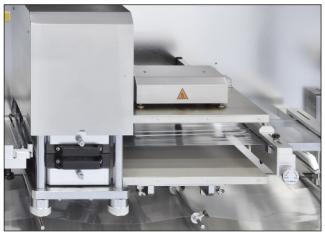
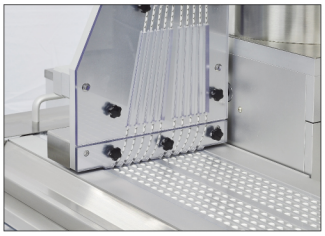
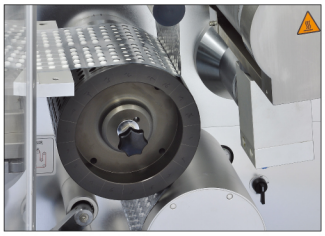
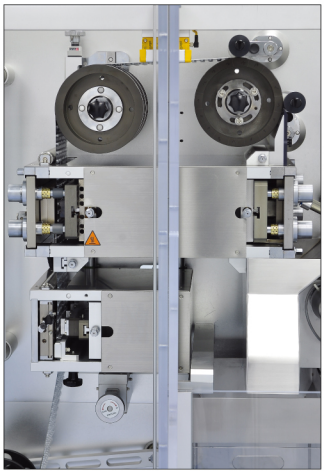
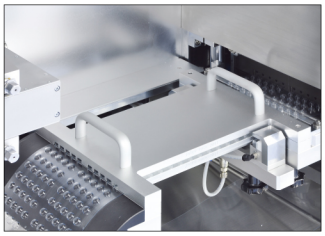
Convenient Integration to Downstream

Punched blisters are transferred by a discharge wheel and positioned onto the discharge conveyor with the upmost pace and accuracy. Duly placed blisters are transferred to the designated position in the downstream machine by the newly developed rotary disk pick and place system. Such an ingenious and compact alignment system creates the shortest blister and cartoner line-up ever seen.

Options Available on HM 600R:

- Various automatic feeding systems applicable as per product, packaging materials, etc.
- Product feeding elevator from floor level
- Closed feeding zone chamber for over / under air pressure control
- Vacuum devices for eliminating dust in the feeding zone
- Visual inspection system to detect empty or irregular shaped products in blister cavities
- Pinhole detection system for aluminum cold forming material
- Print registration control system for lid material
- In-line printer, either flexographic or laser printer
- Ink-jet, laser-jet, etc. coding
- Bar code reading on printed lid foil
- Printer connection to integrated PC control system
- In-line facilities for downstream automations
- 21 CFR Parts 11



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1. Forming Station

Capable of thermoforming or cold forming. Thermoforming is performed by means of blowing air on the heated film to form the desired cavities. Polypropylene (PP) can also be used with the use of a special forming mold. Cold forming is carried out by pressing the material into a mold using a plug assisted mechanism.

2. Feeding Section

A continuous motion product feeder enables swift feeding speeds for most products. Various feeding systems for odd shape products are also available. Drum or other special feeding systems can also be installed for Alu/Alu packaging and for special products.

3. Continuous Motion Sealing

Continuous motion sealing with rotary indexing and cooling drum provides the ideal condition for high quality sealing. It is operated by the servo motor drive which contributes to the flexibility of blister design.

4. Self-adjusting Indexing System

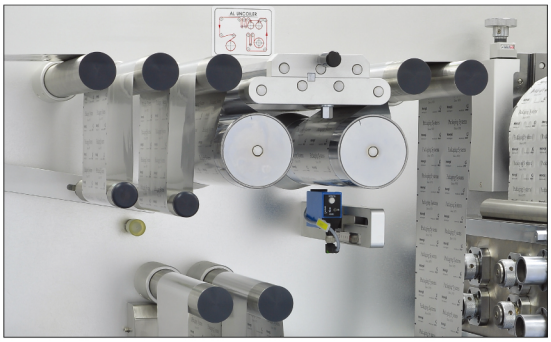
The position of the film is read and corrected at each index by servo motor drive. The forming zone has individual servo-driven grips which assist the indexing system. Emboss Coding, Perforation and Punching Stations are controlled by servo-driven rotary indexing system.

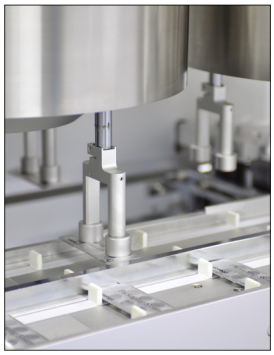
5. Print Registration Control System

This device controls the stretching force of the lid foil regularly to match the printing information on the pack by examining the eye mark positions.

6. Discharge & Transfer

Horizontal punching system produces a more precise individual ejection and supports easy integration and interface to a continuous motion cartoner. Two sets of rotary disk units provide superior stability transfer at high speeds. Also it provides complete separation of discharge between empty and miss-filled blister after punching.





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Continuous horizontal product flow
Highly effective productivity
Continuous production schedule
Absolute production management
Simple operation
Conforms to advanced cGMP directives
Compact floor space



ISO 9001: 2000 / ISO 14001 CE

Featuring the HM 600R blister machine integrated with upgraded HANA 300 horizontal cartoner.

TECHNICAL DATA

HM 600R

Output	max. 600 blisters /min. in dual lanes	
Operation speed	Thermo forming	min. 15 ~ max. 60 cycles/min
	Cold forming	min. 15 ~ max. 50 cycles/min
	Punching	min. 50 ~ max. 300 cycles/min
Forming format range	Width	min. 60 ~ max. 270 mm
	Index	min. 30 ~ max. 200 mm
	Depth	max. 12 mm (Alu/Alu : max. 12 mm)
Punching format range	Width	min. 60 ~ max. 260 mm
	Index	min. 30 ~ max. 100 mm
Packaging material	Forming material	PVC, PVC/PVDC, PVC/ACLAR, COC, PET, PP, Alu forming material, etc.
	Lidding material	Alu-hard / soft, Child Resistant Lid Foil, etc.
Utilities	Electric power connection	380V, 3-phase, 50/60Hz (other voltages available upon reguest)
	Electric connection	18 KVA
	Compressed air pressure	6 ~ 8 bar in 10% fluctuation
	Air consumption	300 NL/min
Machine dimensions	Length	approx. 4,400 mm
	Width	approx. 1,500 mm
	Height	approx. 1,700 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.

Hoonga

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