

# blister packaging HM 600R

## 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.

## 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.

## Self-adjusting indexing

HM 600R has composed with three(3) main indexing as gripper indexing after forming, rotary indexing by sealing drum and transfer drum before punching station. All indexing systems are driven by servo motor and it fulfills to self-adjustment for accurate transfer.

## Feeding zone

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

## 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.

## 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 laminated Alu. for cold forming.

## 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.

## GMP compliant design

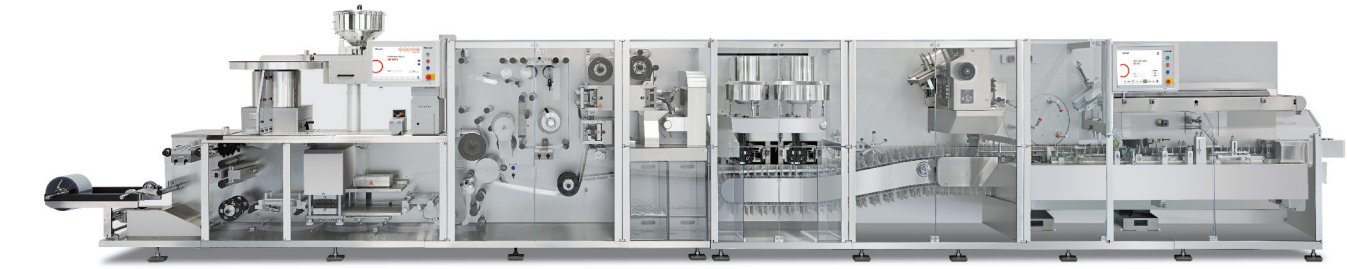
Balcony construction with sloped bottom design, clean and simple structure of stations and frameless safety doors allow easy and fast cleaning which minimal dust accumulation.

# High speed blister packaging machine for mass production with most effective productivity.

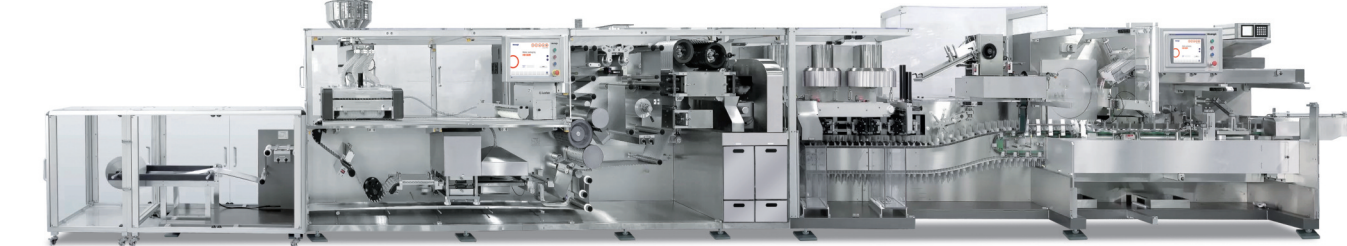
## Available options

- Product feeding elevator from floor level
- Vacuum dust control system
- Camera inspection system
- Pinhole detection for alu/alu
- In line printer either flexographic or laser printer
- Barcode reading printed on the lid foil
- Inkjet, laser or emboss coding
- Print registration system
- In line facilities for downstream automations

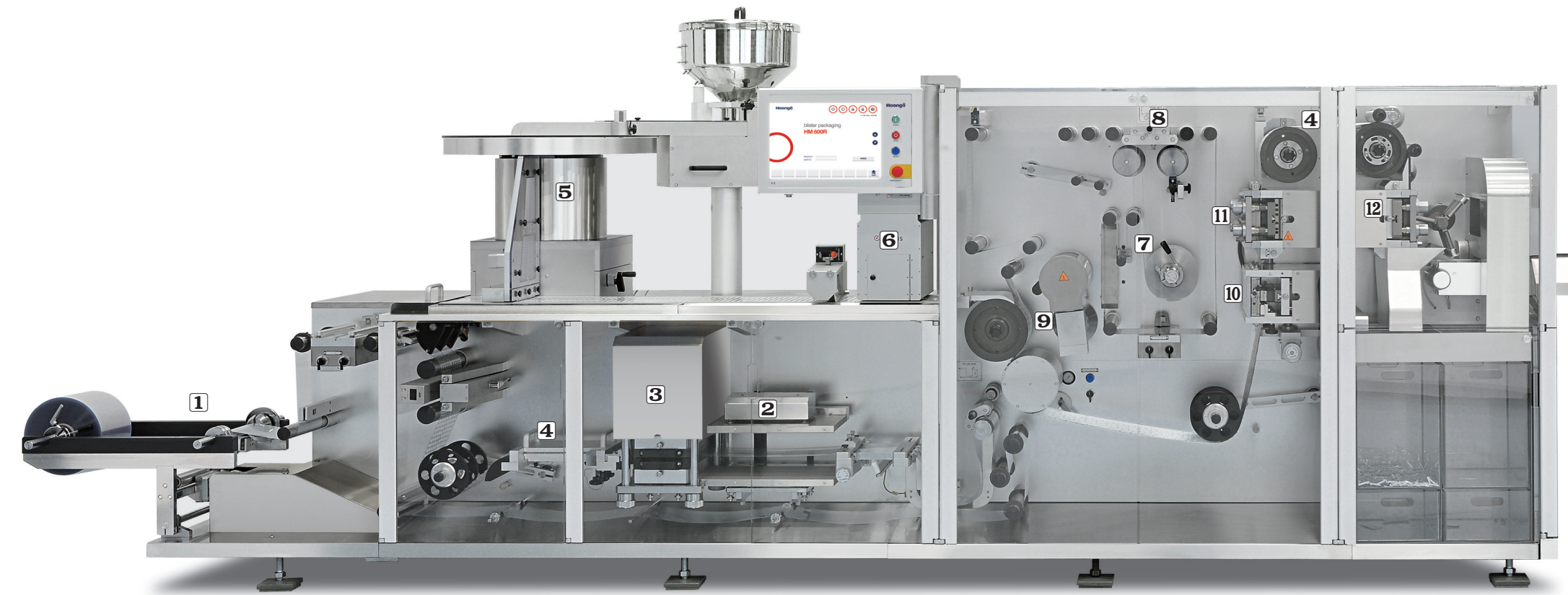
## Integration samples



HM 600R lined up with continuous horizontal cartoner HC 400  
Line dimension : L / 11,910 x W / 1,820 mm



HM 600R lined up with continuous horizontal cartoner HC 200  
Line dimension : L / 11,200 x W / 1,680 mm



- 1 Forming reel unwinder with splicing table
- 2 Pre-heating station
- 4 Draw-off
- 6 Camera inspection
- 7 Lid foil unwinder with splicing table

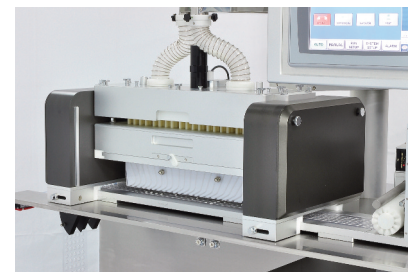
## 3 Forming station

Forming station to cover either thermo forming or cold forming. Thermo forming is performed by means of air blowing system. Cold forming is carried out by pressing the material into a mold using a plug assisted mechanism.



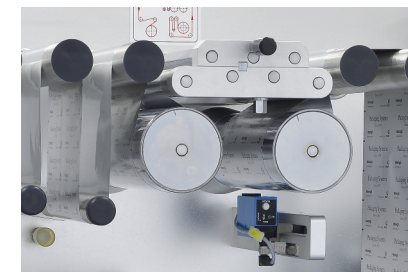
## 5 Feeding station

Various feeding systems for solid products are available. Below image shown here is Shift Feeder for continuous motion.



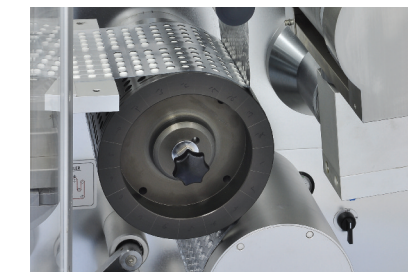
## 8 Print registration system

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



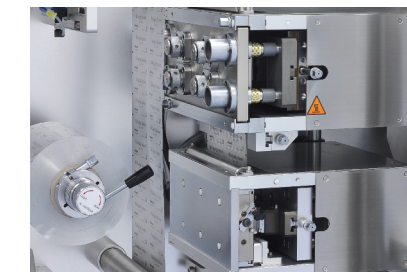
## 9 Rotary sealing & Cooling station

Continuous motion sealing with rotary indexing and cooling drum provides the ideal condition for high quality sealing. It is operated by servo motor drive which contributes to fast product feeding speed.



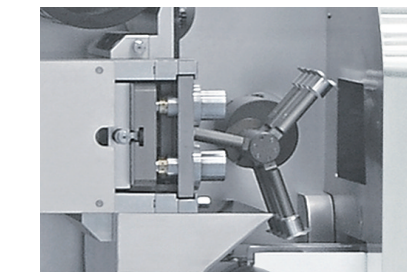
## 10 11 Emboss & Perforation station

Embossing and perforating are driven by separated servo control for clear embossing and accurate transference. It is designed ergonomic design and light weight tool for easy maintenance.



## 12 Punching and Discharge station

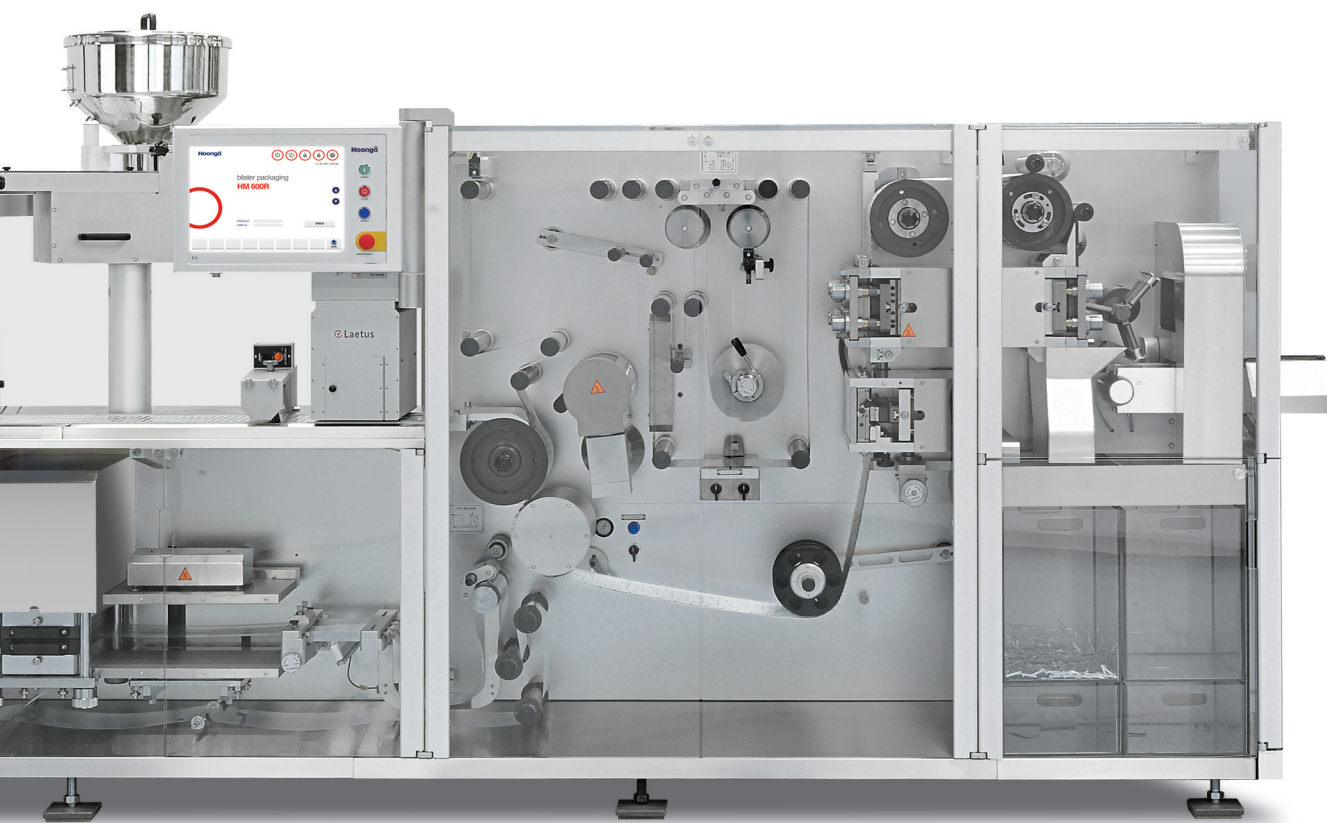
Horizontal punching system produces a more precise individual ejection and supports easy integration and interface to continuous motion cartoners.



## Technical Data

Output		max. 600 blisters/min.
Operation speed	Thermo forming	max. 70 cycles/min.
	Cold forming	max. 60 cycles/min.
	Punching	max. 300 cycles/min.
Forming format range	Width	max. 290 mm
	Index	max. 240 mm
	Depth	max. 12 mm
Forming foil reel diameter		max. 800 mm (core dia. 76 mm)
Lidding foil reel diameter		max. 300 mm (core dia. 76 mm)
Packaging material	Forming	PVC, PVC/PVDC, PVC/ACLAR, COC, PP, PET, Laminated Alu.
	Lidding	Hard/Soft Alu., Child Resistant lid foil, etc.
Utilities	Electric power connection	380 V, 3-Phase, 50/60 Hz (Other voltages are available on request)
	Electric consumption	15 KVA
	Compressed air pressure	6 bar in 10% fluctuation
	Air consumption	370 NL/min.
Machine dimension		L/ 6,200 x W/ 1,690 x H/ 1,780 mm
Weight		4,600 kg

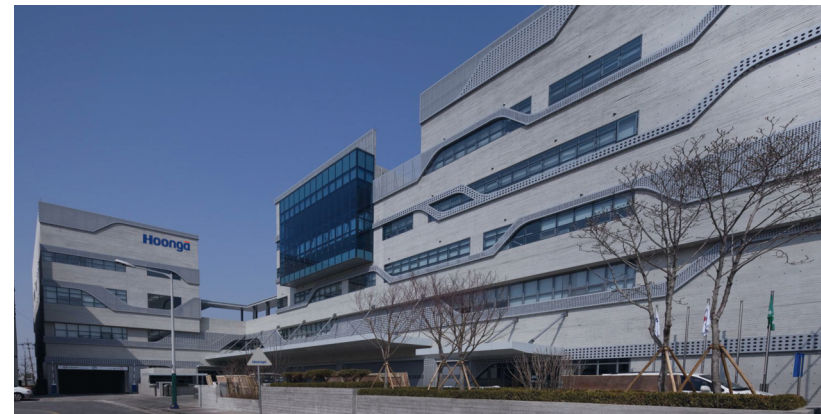
The technical specifications given hereby are subject to change without prior notice or without liability.



**Hoongā**

**Hoong-A Corporation**

Head office / Factory 55, Saneop-ro, 7 beon-gil, Ojeong-gu, Bucheon-si, Gyeonggi-do, 14441, Korea  
 Tel. 82-32-675-1511, Fax. 82-32-511-1511  
 E - mail overseas@ha1511.com  
 Home page www.ha1511.com



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## blister packaging HM 600R



The HM 600R is the speed blister packaging machine for mass production products. The machine features a dual lane, continuous rotary sealing operation with an output of up to 600 blisters per minutes. It was designed for production cycles that require large quantity production with maximum efficiency. Horizontal punching system that has speed of 300 cycles per minute, dual lane architecture leads to perfect blister discharging and easy integration of blister in-line operation.

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