

blister packaging  
**HM 900P**

Packaging  
Systems



HM 900P is super-high speed blister packaging machine in single to three-lane mode of operation with innovated technology for mass production. It offers gentle and high performance for all forms of solid products with common type of forming material in platen sealing operation. Servo drives and PC control system fully automate the operation and secure high precision tool set up. Horizontal punch system produces the most precise individual ejection and supports easy integration to the continuous motion carton packaging machine.

# blister packaging

## HM 900P





# Three - lane blister machine with innovative technology for mass production, offers gentle and high performance for all forms of solid products with common types of forming material in platen sealing operation.

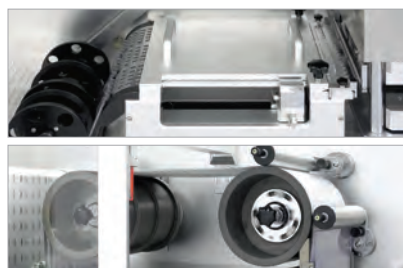


- 1 Forming reel unwinder with splicing table
- 6 Camera inspection
- 7 Lid foil unwinder with splicing table
- 8 Print registration
- 14 Rotary transfer

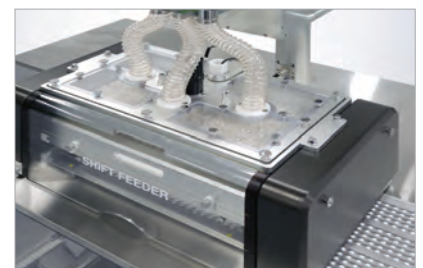
**2 3 Pre-heating & Forming station**  
 Various forming materials such as PVC, PVC/PVDC, COC, ALU cold forming are applicable. Thermo forming is performed by means of air blowing system and cold forming is carried out by the plug assist mechanism.



**4 Self- adjusting Indexing**  
 A position of the film is read and corrected at each index step by servo motor drive technology. In forming station is gripper indexing and emboss & perforation & punching station is rotary indexing system.



**5 Feeding station**  
 Various feeding system for solid products are available. Below image is shift feeder track feeder for intermittent motion.



## Available options

- Product feeding elevator from floor level
- Vacuum dust control system
- Camera inspection system
- Pinhole detection system for Alu/Alu
- Print registration control system
- In-line printer either flexographic or laser printer
- Coding by ink-jet, laser-jet, etc.
- Bar code reading on lid foil
- In-line facilities for downstream automations



### 9 10 Sealing & Cooling station

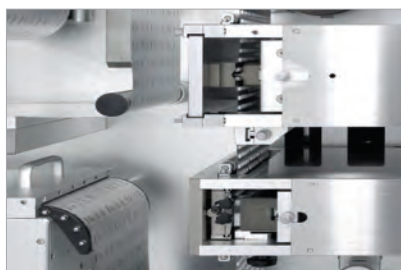
Intermittent motion platen sealing and cooling station is operated by servomotor drive that contributes to the flexibility of blister design in mass production.

### 11 12 Emboss & Perforation station

Emboss coding has driven by servo control with perforation and punching at the same time as a fast driving zone. Its design shows small and lightweight format parts.

### 13 Punching and Discharge station

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



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## HM 900P

### Industry standard PC control system with innovated HMI operator panel

Production management and operations are made possible by incorporating an industry standard PC control system with a color LCD touch screen. 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

### Platen Sealing

A platen sealing mechanism is operated by servo motor drive technology for optimum sealing and maximizing speed. It presents more freedom for the blister pack design and performs challenging sealing types such as Alu/Alu blister with large cavities. Indexing incorporates a grip-moving self adjustment system.

### Self-Adjusting Indexing

Servo motor drive technology is embedded in three separate zones for an individual indexing operation. Both Forming and Sealing Stations consist of servo motor controlled grip-moving systems. A fast driving zone which is a combination of Emboss coding, Perforation and Punching stations, also utilizes 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 contribute to easy and fast format mold changeovers less than approx. 30 minutes.

### GMP compliant design

Machine design is in accord with GMP regulation for pharmaceutically compliant operation and cleaning. Balcony structure for a clear separation of the mechanical part from the operational part. GMP concept offers maximum production safety with high visibility, easy to access and quick to clean.

### Feeding zone

Separation of the feeding zone from the production and driving zone minimizes cross contamination and eliminates any vapor.

### Fast driving zone

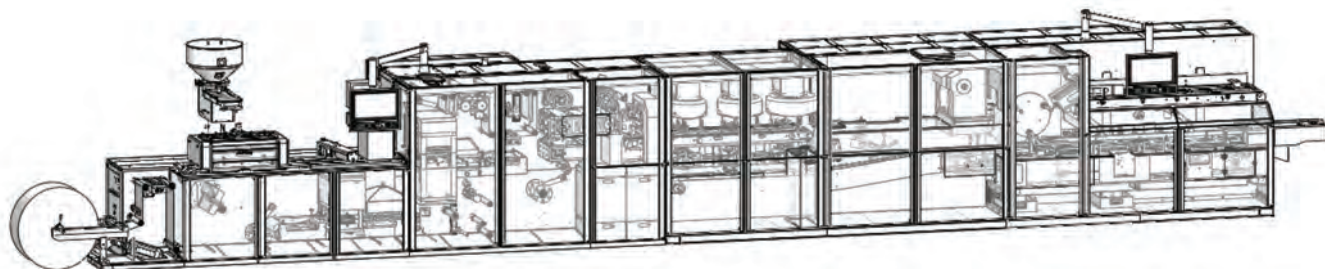
Perforation, emboss coding and punching stations occupy less space with smaller format tools. Horizontal punching system leads to the perfect blister discharging and easy integration to downstream machine. This fast driving zone operates at the maximum of 300 cycles per minute.

### Convenient integration to downstream

Punched blisters are transferred by a discharge wheel and positioned onto the discharge conveyor with upmost pace and accuracy. It automatically accomplishes precise individual ejection for complete alignment to carton packaging machine.



## Integration samples



**HM 900P lined up with continuous horizontal cartoner HC 400**  
**Line dimension : L / 12,770 x W/ 1,980 mm**

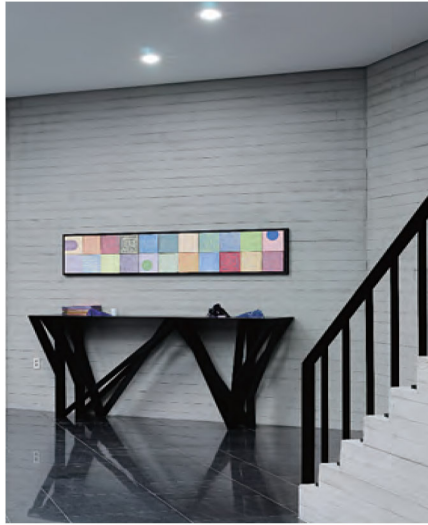


**Feature of HM 900P & HC 400**

## Technical Data

Output		max. 900 blisters/min. in three-lane
Mode of operation		Intermittent
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. 500 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, PET, Alu foil, etc.
	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	18 KVA
	Compressed air pressure	6 bar in 10% fluctuation
	Air consumption	370 NL/min.
Machine dimension		L/ 6,070 x W/ 1,680 x H/ 1,735 mm
Weight		4,600 kg

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



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.



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