

blister packaging HM 400R

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

Servo motor drive technology is embedded in three separate zones for better control. Forming Station consists of gripper-indexing systems and sealing drum 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.

Material flexibility

HM 400R 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

Ergonomic design of this compact machine allows easy access to electrical and mechanical driving sections. 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.

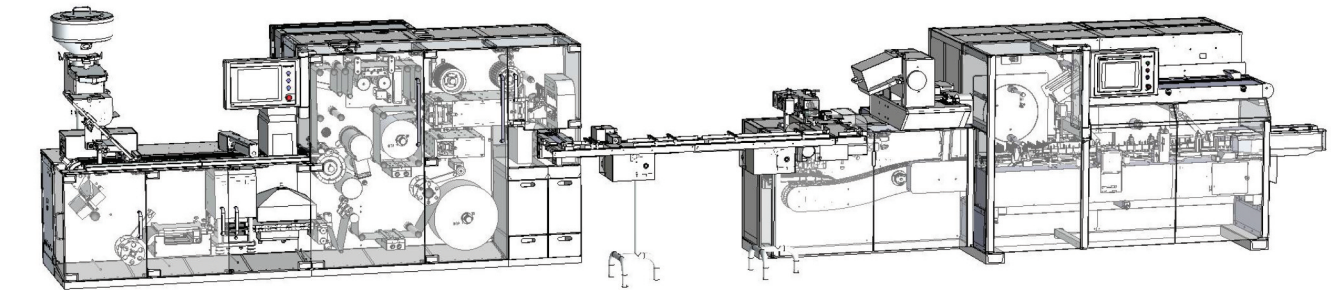
Highly effective productivity in continuous motion with drum sealing on compact floor.



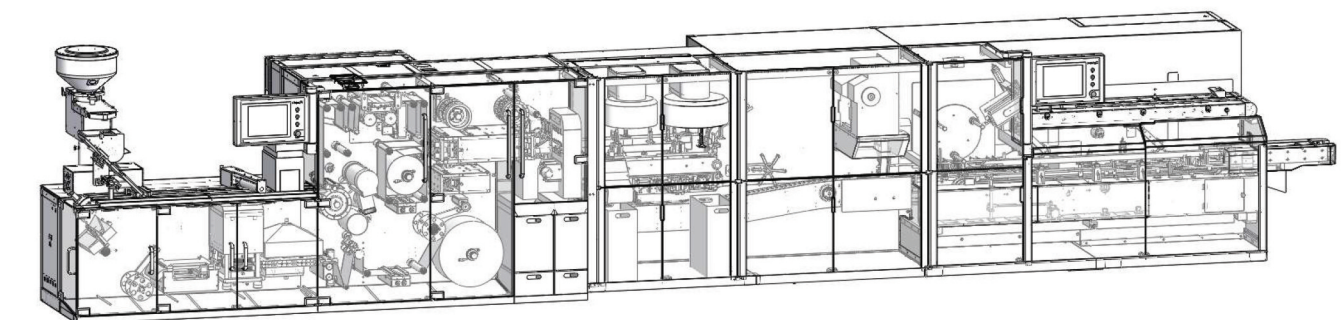
Available options

- 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 400R lined up with continuous horizontal cartoner HC 200
Line dimension : L / 10,170 x W / 2,080 mm

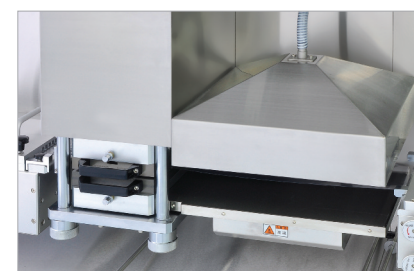


HM 400R lined up with continuous horizontal cartoner HC 400
Line dimension : L / 9,870 x W / 1,620 mm



- ① Forming reel unwinder with splicing table
- ⑥ Camera inspection
- ⑦ Lid foil unwinder with splicing table

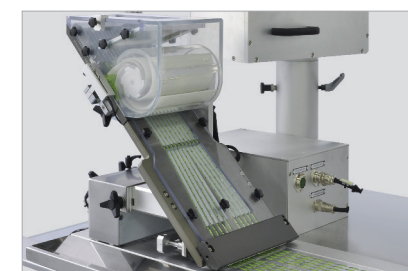
- ②③ Pre-heating & Forming station
Various forming materials such as PVC, PVC/PVDC, PP, ALU cold forming are applicable either thermo forming or plug forming. Below image shown here is a Gas evacuation facilities on the pre heating station for PVDC film forming.



- 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.



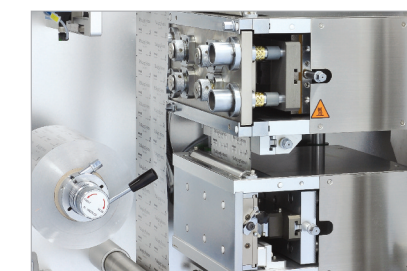
- ⑤ Feeding station
Various feeding system for solid products are available. Below image is Semi-hopper track feeder for continuous feeding.



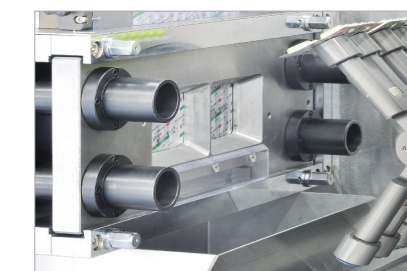
- ⑧ Sealing & Cooling station
Continuous motion sealing with rotary indexing and cooling drum provides the ideal condition for high quality sealing. It is operated by servo motor drive which contributes to fast product feeding speed.



- ⑨⑩ Emboss & Perforation station
Emboss coding has driven by servo control with perforation and punching at the same time as a fast driving zone. It design shows less spaces and small format parts.



- ⑪ Punching and Discharge station
Horizontal punching system produces a more precise individual ejection and supports easy integration and interface to a continuous motion cartoner.



Technical Data

| | | | |
|----------------------------|---------------------------|---|------------|
| Output | | max. 400 blisters/min. in dual lane | |
| Mode of operation | | Continuous | |
| Operation speed | Thermo forming | max. 70 cycles/min. | |
| | Cold forming | max. 60 cycles/min. | |
| | Punching | max. 200 cycles/min. | |
| Forming format range | Width | max. 250 mm | |
| | Index | max. 200 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, 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 | 16 KVA | |
| | Compressed air pressure | 6 bar in 10% fluctuation | |
| | Air consumption | 350 NL/min. | |
| Machine dimension | | L/ 3,600 x W/ 1,450 x H/ 1,820 mm | |
| Weight | | 3,500 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



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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HM 400R is capable of outputting at maximum 400 blisters per minute within a confined space, in continuous motion with drum sealing at dual lane system. Latest technology of servo driving system secure the highest accuracy and the most precise operation penetrating all major stations as well as relieve the change over time by electrically saved product parameters, light weight of parts and fast replacement. Horizontal punching system that has speed of 200 cycles per minute leads to perfect blister discharging and easy integration of blister in-line operation.

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