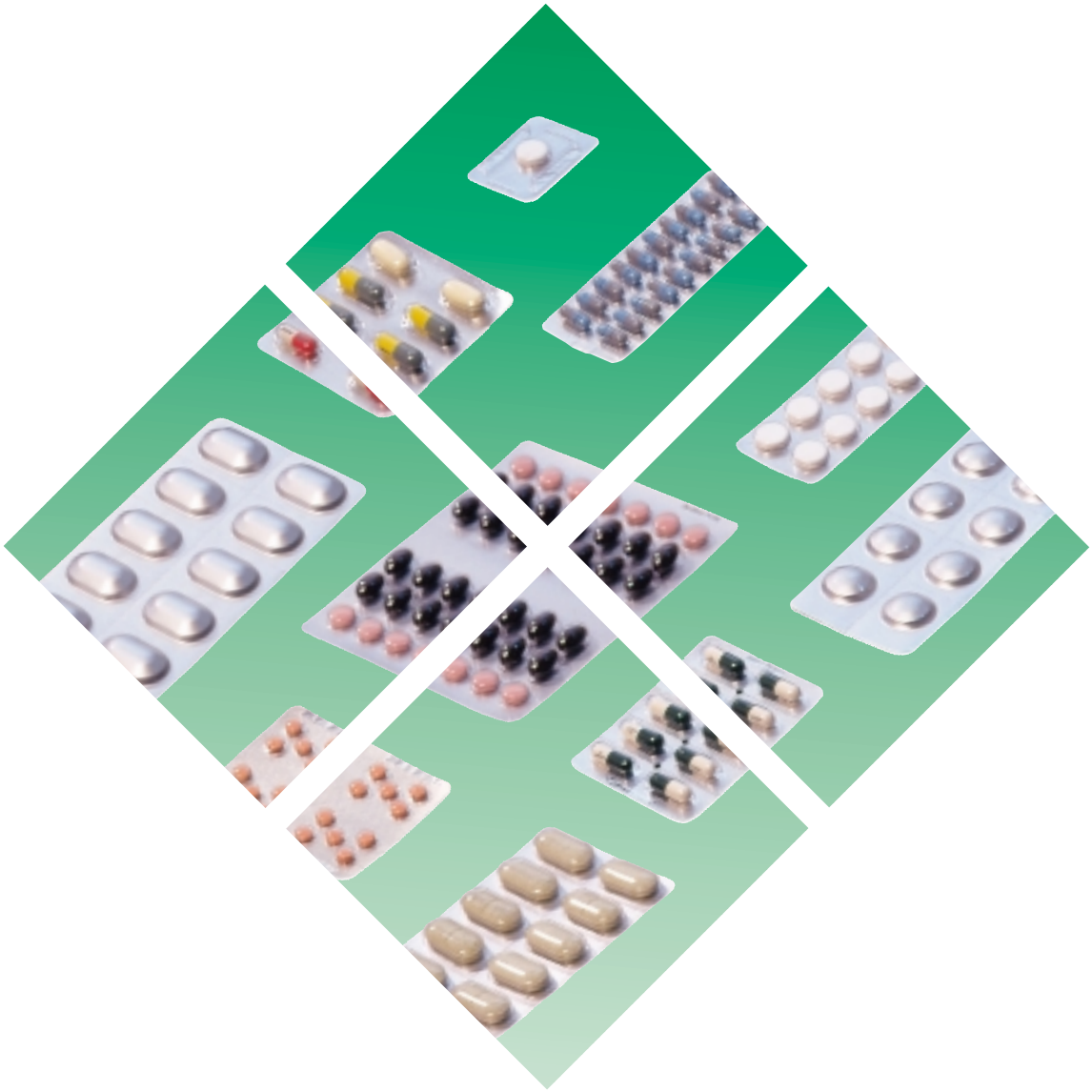
Horn + Noack



DPN 760

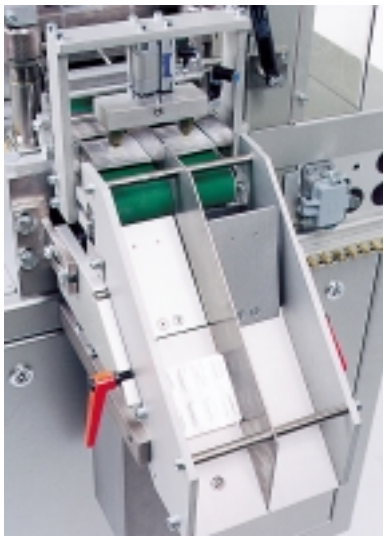
Blister packers

Romaco Group

DPN 760

Blister packers

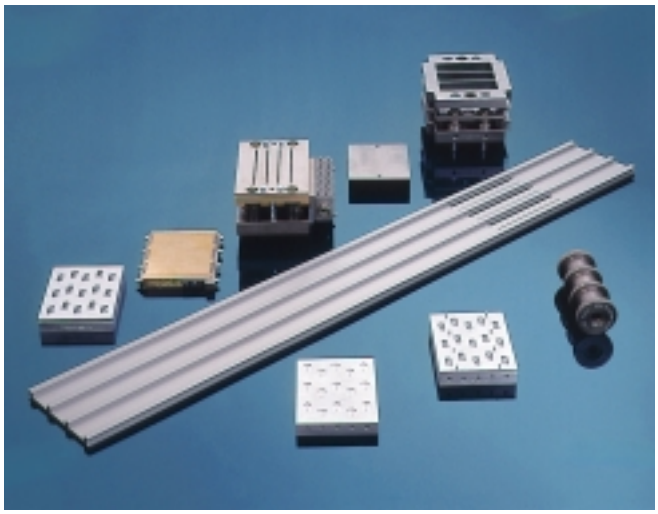
Dedicated feeding with feeding roller



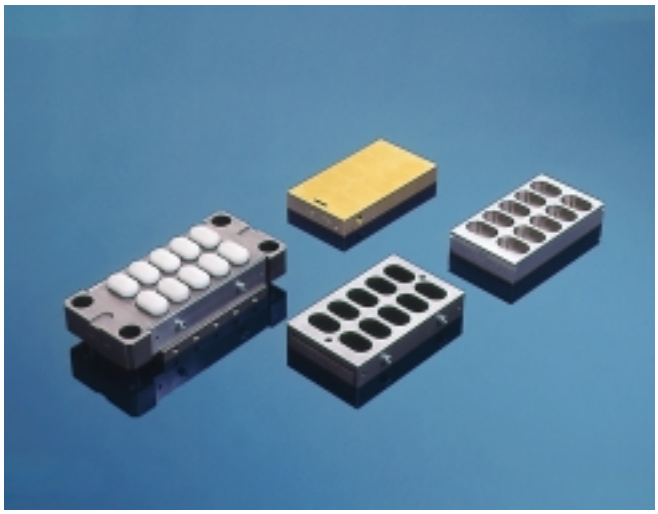
Ejection station

Operator panel with 16-line display

Forming station for alu-alu blisters



Complete set of format parts for PVC-alu blisters



Forming and sealing tools for alu-alu blisters

PRODUCE ALL TYPES OF BLISTERS…

- suitable for packing tablets, capsules, caplets, ampoules and technical products; drawing depth up to 24 mm

- quick change of formats thanks to :
  - format parts with quick release
  - light-weight format parts
  - electronically stored format parameters

- processes all common thermoformable films

- many years of successful experience with alu cold forming

- over 500 machines sold to date

… WITH A PROVEN AND USER-FRIENDLY TECHNOLOGY

- platten machine with intermittent motion
- compact construction : 2,5 m^2 footprint
- easy to operate, easy to maintain
- ideal for start-up operation with minimum investment
- can be upgraded with all options to increase productivity :
  - automatic feeding systems
  - filling inspections and ejection station
  - Hapa lidding foil printer
  - print mark registration
  - complete line with Promatic cartoner
  - etc …

Notes :

The new generation DPN 760 :
a proven concept for today's market

The first blister packer of the model DPN 760 was built in 1979. Although the name and the basic principles were kept, the DPN 760 of today is much different from its predecessor. In recent years, Horn + Noack introduced updates to keep pace with the market. Some of the innovations made over the last few years are :

- frequency controlled main drive, speed regulated from the operator panel
- quick release on forming and sealing tools, etc …
- foil indexing controlled by a servo-motor instead of a cam, to increase index precision, ensure smooth movement of the web and ease the format change
- more powerful PLC with electronically stored format parameters, to simplify and speed-up

Technical data		
machine dimensions	m	3,3x0,7x1,6
foil width max.	mm	165
foil indexing max.	mm	140 (160)
forming depth max.	mm	24
die-cutting range	mm	155 x 138
max. ∅ forming foil	mm	600
max. ∅ lidding foil	mm	250
air pressure	bar	6-8
air consumption	l/min	~ 200
power consumption	kW	4,5 - 8,5
working speed max.		50 cycles/min
external cooling: 2 l/min, max 20°C, max 3 bar		

technical modifications reserved

DPN 760

Working principles and construction characteristics

WORKING PRINCIPLES
- intermittent motion of all stations
- platten tooling
- frequency controlled drive motor
- all stations are moved by cams set on a main shaft

MACHINE CONTROL
- B&R PLC
- interactive operator guidance, 16 line display
- memory of format parameters

FORMAT ARRANGEMENT
- crosswise or lengthwise
- lengthwise: up to 4 blisters/cycle
- crosswise: up to 3 blisters/cycle

SPEED
- mechanical speed: up to 60 cycles/min
- speed in operation: up to 50 cycles/min, depending on feeding system and product

FORMING
- thermoformable films are heated and formed using compressed air
- plug-assist for large and/or very deep pockets
- alu-alu blisters are formed by punches, without heat and air

INDEXING
- with 2 indexing rollers
- driven by a servomotor
- no mechanical adjustment of the indexing length
- memory of indexing length and reproduction with format parameters

FEEDING
- manual feeding using stainless steel feeding table
- universal feeding with brush-box (2 chambers)
- vibrator feeding with feeding channels or feeding channels and filling roller
- special feedings
- machine available in longer version (DPN 760-L) for multiple product feeding, e.g. for clinical trials

FILLING CONTROL
- light barriers
- Laetus vision systems with camera

PRINTING OF LIDDING FOIL
- print mark registration for pre-printed foil
- Hapa on-line printers

CODING
- coding of variable data by heated digits in sealing station

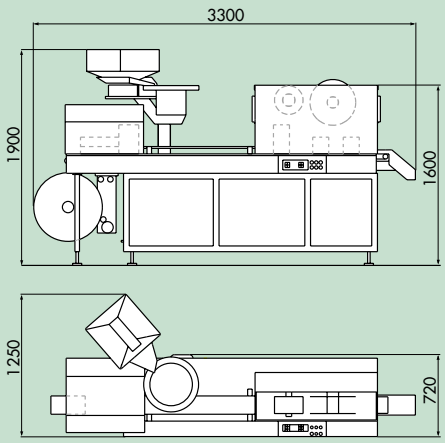
PERFORATION
- length- and/or cross perforation by heated knives in separate station

DIE-CUT AND OUTFEED
- basic version: chute under the die-cut
- when filling inspection and/or automatic cartoning are implemented: the blisters are deposited from the die-cut onto a conveyor and transported to the ejection system. Ejection flaps operate to reject faulty blisters

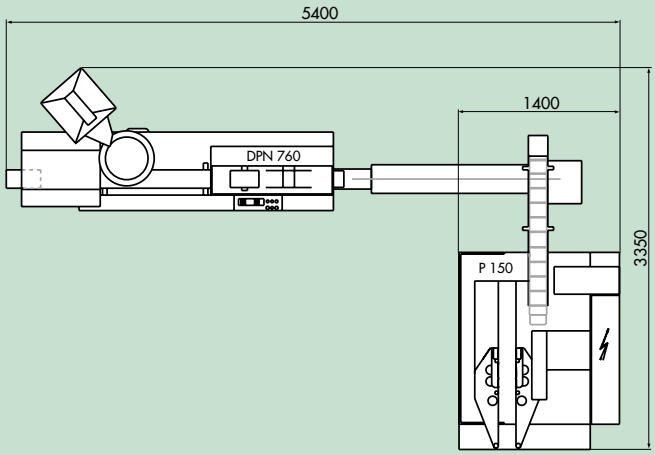
HEATING AND COOLING:
- the heating plates, the upper sealing plate and the upper perforation plate are heated; each has a temperature regulator
- the heating plates retract when the machine stops to avoid overheating
- cooling circuit in the forming, sealing and perforation stations
- a water cooling unit can be quoted as an option

The DPN 760 is also available in its L- version with an elongated feeding area which allows the manual or automatic feeding of multi-product blisters

Drawings of the DPN 760 with measurements



Complete line with Promatic P150 cartoner



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