

Siebler HM 1

Heatsealing Machine for Pharmaceutical Solids

Siebler HM 1

Repeatable Performance

The four side sealed foil pack containing pharmaceutical solids is widely known as strip pack. For several applications it is a growing alternative to other kinds of pharmaceutical packaging.

For example when administered as a unit dose in a hospital the patient can easily identify the medicine. All information about possible side or counter effects is stated on the package. Unit dose applications help avoiding mismedication.

The Siebler HM range of machines produce high quality 4 side sealed packs. The packaging materials are fed from 2 reels to the sealing station where the products are fed precisely timed in between the 2 layers of foil before being sealed together by temperature and pressure. Quality inspection systems for the products before and after sealing are available as options.

After sealing the foil web is perforated and cut into the required pack sizes. The finished and qualified packs can then be grouped and transferred to the relevant endpacking system(s).

Romaco can provide all the tools to assist your validation processes. Various calibration functions with the relevant tools are available.

HM 1



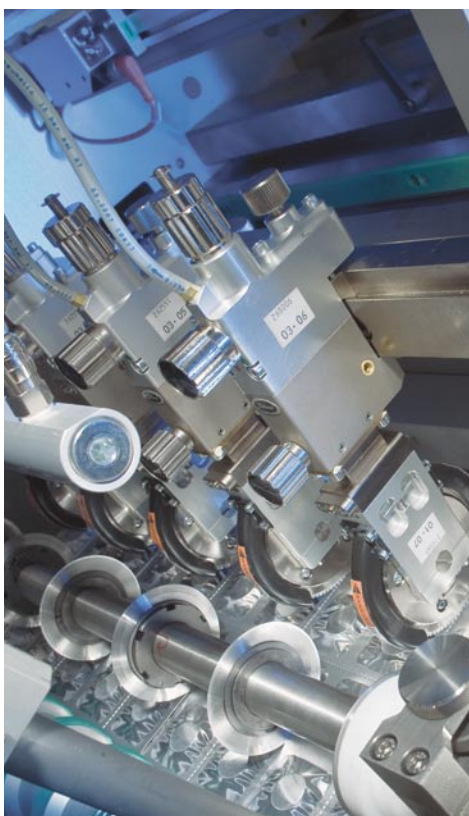
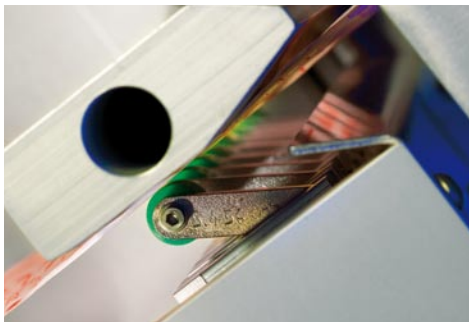
Repeatable Sealing Quality

The Siebler heatsealing technology is available in various executions. The sealing parameters comprising pressure, temperature and speed are pre-set and stored as format parameters for the relevant products. For contract manufacturing companies or customers with different pack sizes the new sealing system with pluggable tubular format tools is a perfect solution.

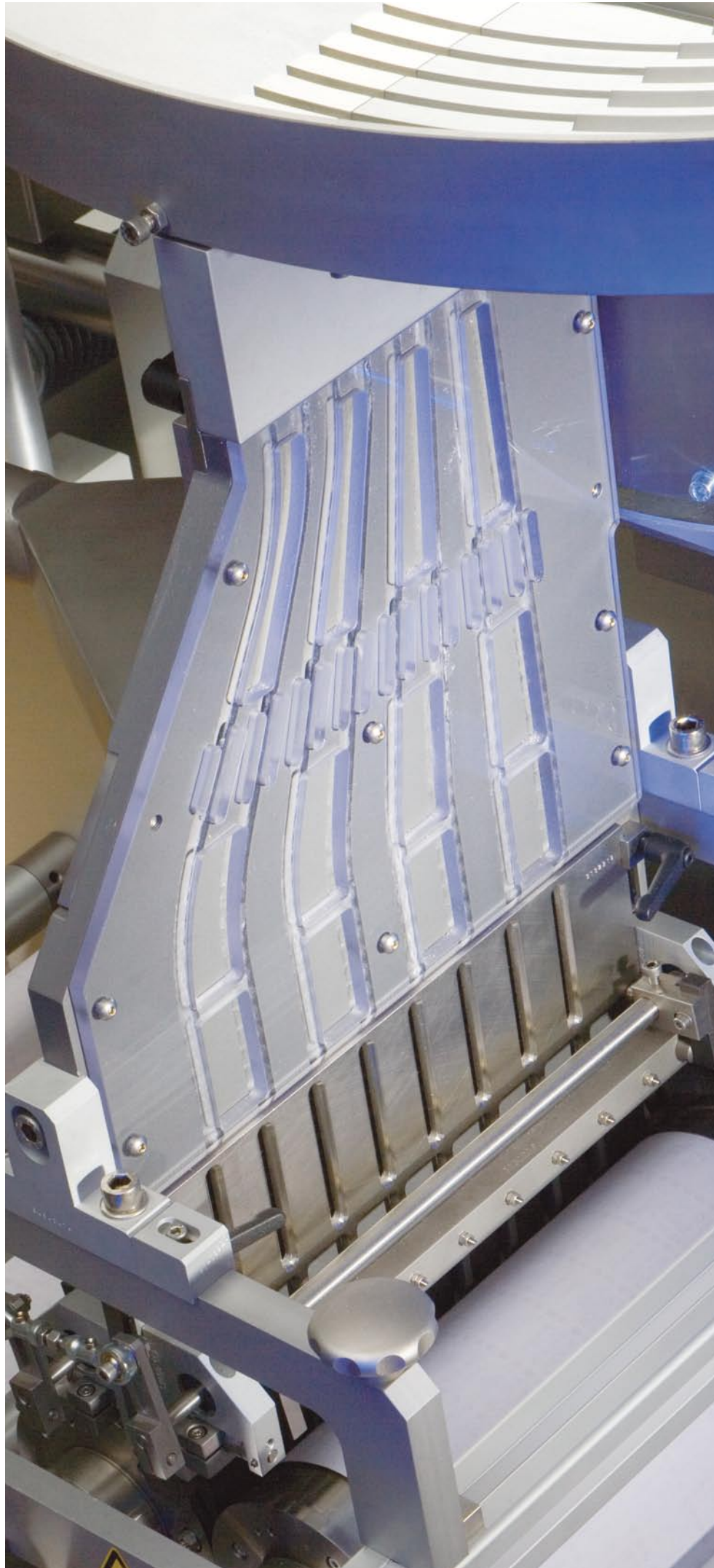
Completely modular sealing stations on quick-change tracks are the best alternative for highest production rate requirements.

Special advantages

- High availability
- Quick production start
- Modular format toolings
- Top sealing quality (repeatable/pre-set)
- Perfect accessibility



Siebler



Technical Aspects

Feeding system

- Product supply hopper
- Dust and breakage elimination system, incl. dedusting facilities
- Sorting vibrator disc for high feeding capacity with extremely quiet operation
- Vertical product indexing unit, quickly exchangeable, servo driven

Sealing quality

- Sensing of seal temperature by integrated, calibrated sensors
- Multiple heaters per sealing tool
- Quick heat-distribution components
- Handling of all seal parameters (pressure/gap/temperature/speed) in panel
- Film unwinding with constant tension
- Various seal patterns to adapt to the quality of the packaging material

cGMP aspects

- Surface finish according to pharmaceutical regulations
- Consequent balcony design with separation of drive and function modules
- Easy access to the product feeding for cleaning and format exchange
- General execution as per cGMP regulations

Availability

- Quick format change-over due to minimized number of format parts
- Individually pluggable draw-off modules
- Integrated touchscreen operator panel
- Foil reel shafts with quick release locks for fast change-overs
- Low space requirement due to compact design

In-line operation

- Easy integration in packaging lines by standardized stacking and transfer units serving as an interface to intermittent or continuous motion cartoners

Some features are available as options and are not included in the standard machine version

Catch Cover –

Handy Pack style with extra space for information

A catch cover pack consists of a heat sealed strip pack which is attached to a paper sleeve. The strip pack usually contains between 1 and 12 pharmaceutical products such as tablets and capsules. All the product information is always available on the catch cover which is sealed onto the strip pack and no additional carton is required. This makes it a handy sales pack for distribution of pharmaceutical products in small quantities. Siebler can provide the full range of equipment for an efficient production of catch covers: starting with the semi automatic catch cover sealing and cutting machine CM 1/300 up to a fully automatic line consisting of a heat sealing machine from the HM 1-series, a catch cover folding unit, a sealing and cutting machine CM 1/300 or CM 1/500.

◇ CM 1/300 semi-automatic version

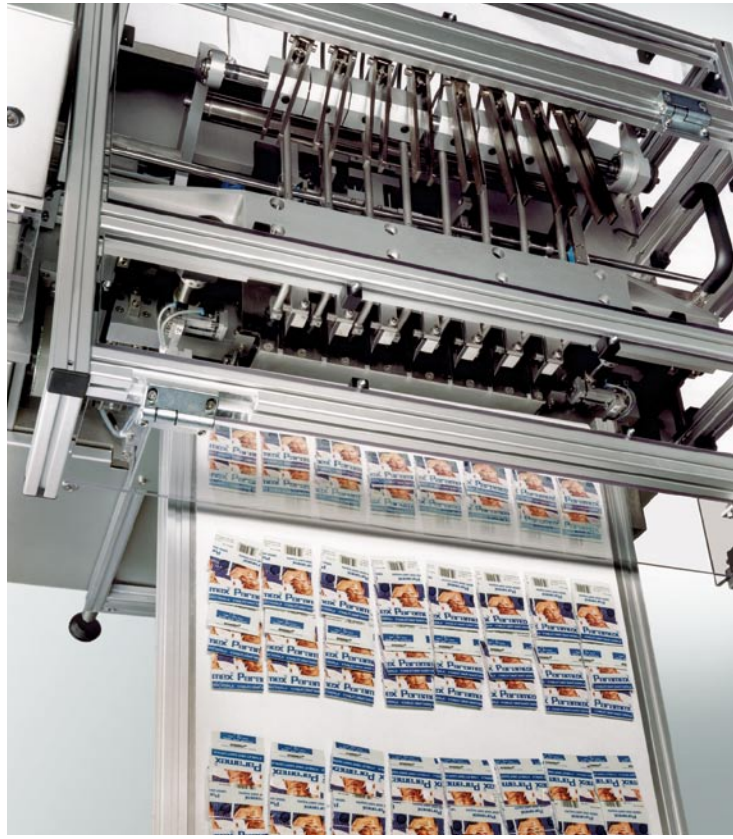
or

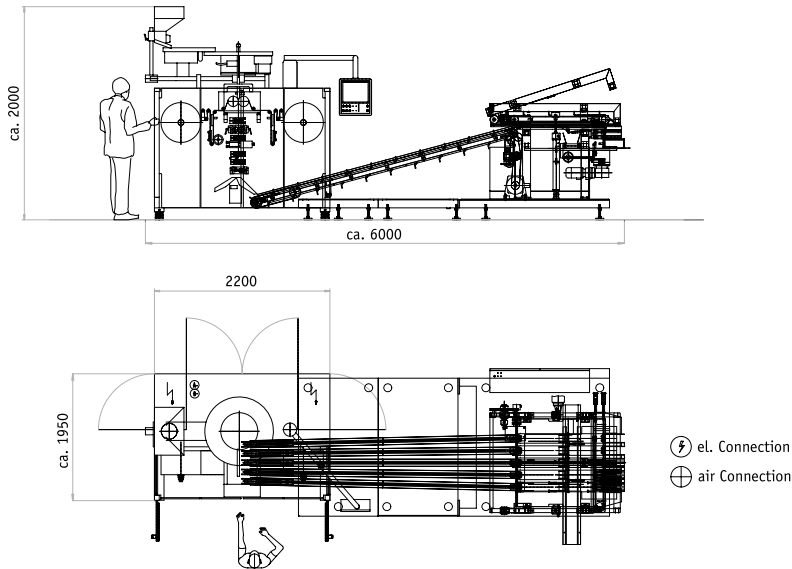
◇ A fully automatic line comprises a Siebler HM 1 linked with 2 Siebler catch cover machines CM 1/500

One automatic line is capable of producing up to 1000 catch cover per minute.

Technical Data CM 1		
	CM 1/320	CM 1/500
Max length of strip	320	500
Max cutting cycles	70	85
Max output	350	700







Technical Data HM 1

	HM 1/160	HM 1/230	HM 1/350	HM 1/500
Foil width max, in mm	170	230	350	540
No. of lanes max	6	8	12	16
Output in tablets/min max	1.800	2.400	3.600	5.000
Length of machine approx., in mm	2.310	2.500	2.500	4.500
Width of machine approx., in mm	1.365	1.950	1.950	2.500
Height of machine approx., in mm	2.350	2.250	2.600	2.500
Weight approx., in kg	1.000	1.800	2.500	4.000

A complete Package

The Siebler tradition of building, flexible, robust and easy-to-operate heat sealing machines has established the brand as the supplier of choice to many customers. The company has offered a unique blend of innovation and traditional values, established a loyal following in the heat sealing

sector. Siebler doesn't just deliver machines: we deliver performance too. Our extensive menu of aftermarket service is designed to fit seamlessly with your in-house engineering resource, assuring maximum performance and a long life for all your Siebler machines.

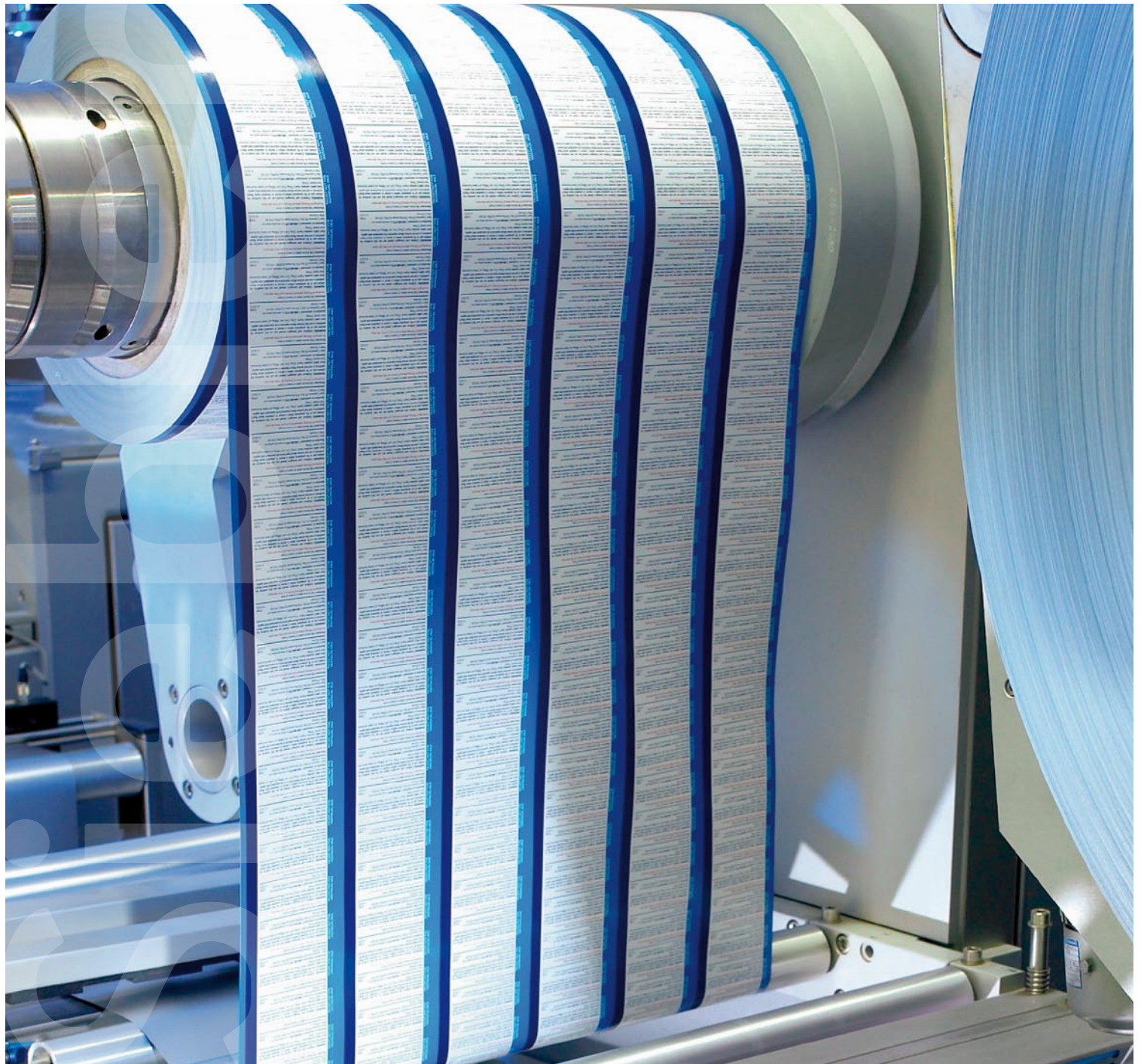
- ◇ Tooling service
- ◇ Planned maintenance
- ◇ IQ-/OQ-assistance
- ◇ Spare/Replacement parts service
- ◇ Pre audit machine inspections
- ◇ Training programs

Romaco
Siebler

Romaco Pharmatechnik GmbH
Am Heegwald 11
76227 Karlsruhe
Germany

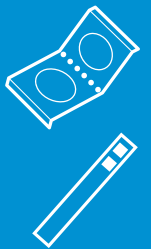
Phone +49 (0)721 4804 0
Fax +49 (0)721 4804 225

siebler@romaco.com
www.romaco.com



Siebler HM 2

Heatsealing Machine
for 4-side-sealed Pouches



Siebler HM 2

Fusion of flexibility and precision

The four-side-sealed foil pack, widely known as a sachet or pouch, serves as a packaging medium for products which are flat in shape. Diagnostics strips, StripTabs, medical items, filters and condoms – many products require special protection and the Siebler HM 2-series delivers hermetic seals in combination with high production rates. Special products often ask for special solutions. Siebler can be your partner in developing customized feeding and handling units for your special packaging requirements.

The Siebler HM range of machines produce high quality 4 side sealed packs. The packaging materials are fed from 2 reels to the sealing station where the products are fed precisely timed in between the 2 layers of foil before being sealed together by temperature and pressure. Quality inspection systems for the products before and after sealing are available as options.

After sealing the foil web is perforated and cut into the required pack sizes. The finished and qualified packs can then be grouped and transferred to the relevant endpacking system(s). Romaco can provide all the tools to assist your validation processes. Various calibration functions with the relevant tools are available.



2
PACKAGING

Application examples of various industries

Pharmaceutical

- Diagnostic strips
- Blisterpacks
- Striptabs
- Medical kits

Nonfood

- Medical parts
- Filters

Food

- Gelatine sheets
- Extruded sweets (inline)

Others

- Syringes
- Pipettes

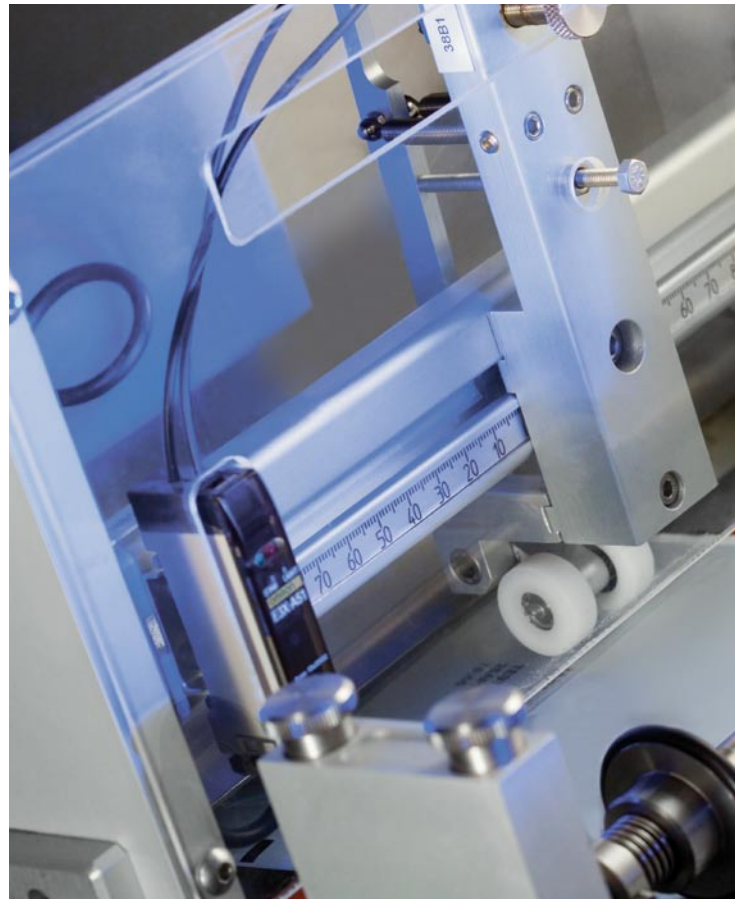


Repeatable Sealing Quality

The Siebler heatsealing technology is available in various executions. The sealing parameters comprising pressure, temperature and speed are preset and stored as format parameters for the relevant products. For contract manufacturing companies or customers with different pack sizes the new sealing system with pluggable tubular format tools is a perfect solution. Completely modular sealing stations on quick-change tracks are the best alternative for highest production rate requirements.

Special advantages

- High availability
- Quick production start
- Modular format toolings
- Top sealing quality (repeatable/pre-set)
- Perfect accessibility



Technical aspects

Feeding

- Manual, semi-automatic or fully automatic
- Positioning units adapted to suit the product(s)
- Special designs available

Availability

- Quick format change-over due to minimized number of format parts
- Individually pluggable draw-off modules
- Integrated touchscreen operator panel
- Foil reel shafts with quick release locks for fast change-overs
- Low space requirement due to compact design

Sealing quality

- Sensing of seal temperature by integrated, calibrated sensors
- Multiple heaters per sealing tool
- Quick heat-distribution components
- Handling of all seal parameters (pressure/ gap/temperature/speed) in panel
- Film unwinding with constant tension
- Various seal patterns to adapt to the quality of the packaging material

cGMP aspects

- Surface finish according to pharmaceutical regulations
- Consequent balcony design with separation of drive and function modules
- Easy access to the product feeding for cleaning and format exchange
- General execution as per cGMP regulations

In-line operation

Easy integration in packaging lines by standardized stacking and transfer units serving as an interface to intermittent or continuous motion cartoners

Some features are available as options and are not included in the standard machine version





Packaging of Diagnostics

The Siebler HM2 is widely used for packaging of diagnostic products from pregnancy tests to blood glucose sensors.

If your diagnostic product is processed and manufactured in form of reels, strips or cards Romaco Siebler provides a solution for handling and cutting of the sensitive products during the complete packaging process. A patented application of applying additional drying agents inside the foil packs helps curing and protecting your product from the time of packing until its use.

Depending on the planned production volumes Romaco Siebler can provide solutions ranging from the single cutting station to the integrated packaging line.

As an alternative to the 4 side-sealed unit dose pouch Romaco Siebler offers solutions where multiple strips are packed into plastic containers.

Cutting Systems

Laser (card materials)

- ◇ up to 1400 diagnostic strips/min

Rotary (cards or strip material)

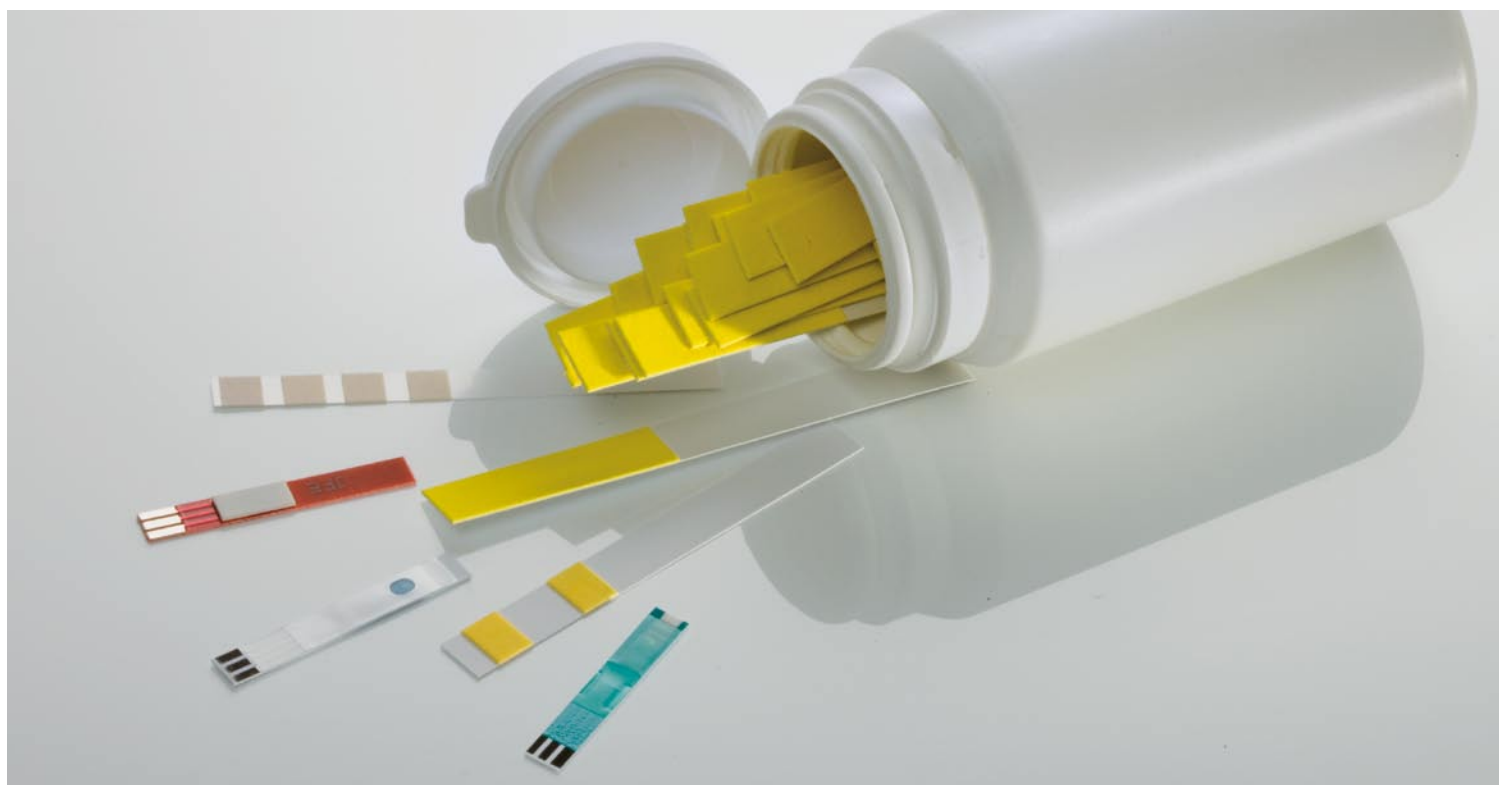
- ◇ up to 1500 diagnostic strips/min

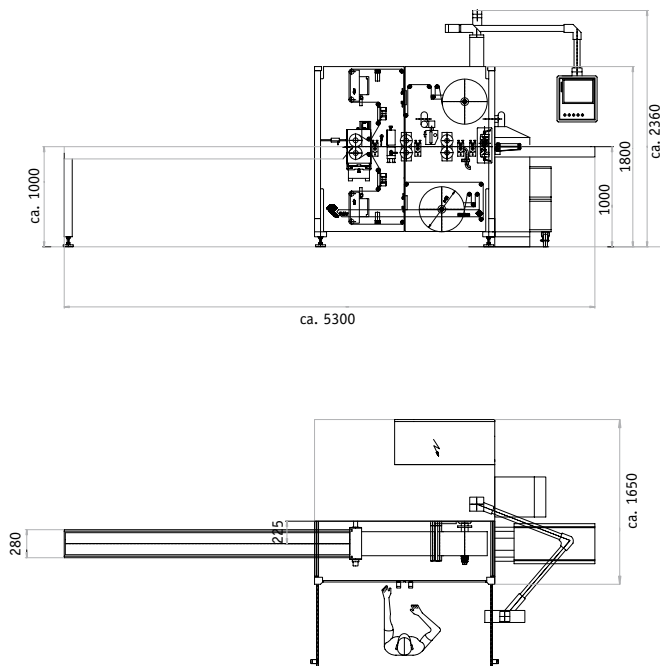
Parallel (reel materials)

- ◇ up to 450 diagnostic strips/min (simplex version)
- ◇ up to 900 diagnostic strips/min (duplex version)

Highlights

- Individual and positive handling of each diagnostic product after cutting
- Reduction of static loads on products
- Visual inspection of each diagnostic strip
- Automatic handling/feeding of products from cards or reels
- Various cutting solutions available
- Hermetically sealed packs for longterm protection
- Stacking and grouping units for connection to downstream packing systems





Technical Data HM 2

	HM 2/200	HM 2/300	HM 2/500
Foil width max, in mm	200	300	500
No. of lanes max	4	8	25
Output in tablets/min max	600	900	1.500
Length of machine approx., in mm	4.000	5.500	5.750
Width of machine approx., in mm	1.800	1.950	2.200
Height of machine approx., in mm	1.650	2.360	2.250
Weight approx., in kg	800	1.400	2.800

A complete Package

The Siebler tradition of building, flexible, robust and easy-to-operate heat sealing machines has established the brand as the supplier of choice to many customers. The company has offered a unique blend of innovation and traditional values, established a loyal following in the heat sealing

sector. Siebler doesn't just deliver machines: we deliver performance too. Our extensive menu of aftermarket service is designed to fit seamlessly with your in-house engineering resource, assuring maximum performance and a long life for all your Siebler machines.

- ◆ Tooling service
- ◆ Planned maintenance
- ◆ IQ-/OQ-assistance
- ◆ Spare/Replacement parts service
- ◆ Pre audit machine inspections
- ◆ Training programs

Romaco
Siebler

Romaco Pharmatechnik GmbH
Am Heegwald 11
76227 Karlsruhe
Germany

Phone +49 (0)721 4804 0
Fax +49 (0)721 4804 225

siebler@romaco.com
www.romaco.com

A Unit of Robbins & Myers, Inc.