



Strip Packaging Solutions





Delivering Solutions – Application Expertise

We are thoroughly familiar with your products and applications! Romaco specialises in engineering technologies for solid pharmaceutical dosage forms. Our concepts and system solutions are inspired by the rich experience and know-how of our 600-strong team of employees.

Creating Value – Enhanced Performance

Profit from Romaco's excellent value for money! We help you optimise your OEE balance systematically. With our efficient production and service management, we cut the running costs for your machines and increase your output in the long term.

Exploiting Technologies – Product Diversity

Our product diversity knows no bounds! The modular concept behind Romaco machines and equipment is the key to your success. With seven product lines, we are in a position to respond promptly and flexibly to changing market requirements. Together we are stronger!



»The strip packaging solutions from Romaco Siebler have allowed us to extend our production capacities significantly. The robot plant concept offers decisive benefits.«

Helmut Jakolat, Production Technology Manager, HERMES ARZNEIMITTEL GmbH, Germany



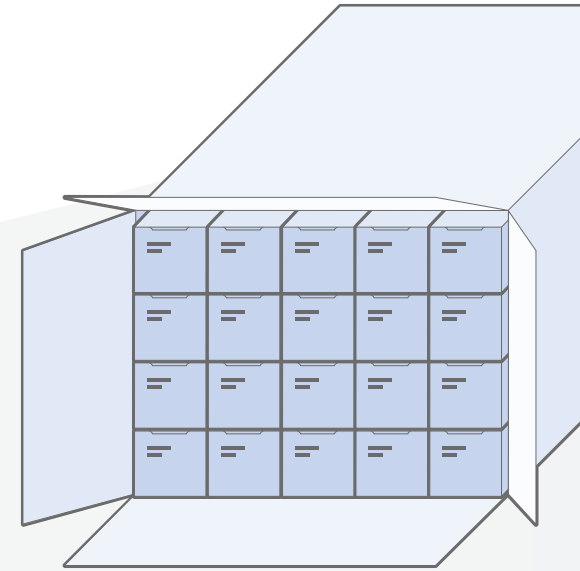
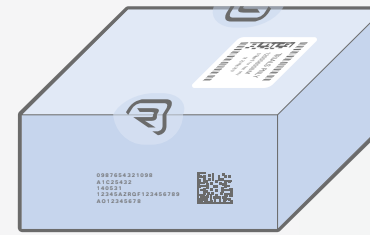
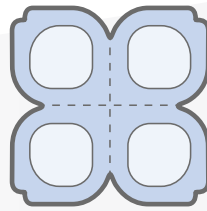
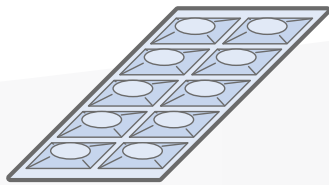
Delivering Solutions

All-in-One Solutions from a Single Source

Romaco is your specialist for solid pharmaceutical dosage forms. We focus on your product, its properties and the resulting tableting and packaging requirements. The know-how of Kilian, Siebler and Promatic is harnessed to help you optimise your existing processes while developing new products and innovative packaging concepts.

Tablet Production

- Tablet presses for the pharmaceutical, food and chemical industries
- Dedicated solutions for effervescent tablets
- Up to five products in one compression process
- Compression of tablets with anything up to five layers
- Production of food supplements such as vitamin preparations
- Manufacture of chemical products, e.g. cleaning tablets



Packing in Sealed Strips

- Air, light and moisture-tight unit dose packaging
- Primary packaging for tablets (including effervescent) and capsules
- Suitable for cutting and packing diagnostics
- Ability to process flat, stable containers such as BFS or pre-filled syringes

Packing in Design Strips

- Customised strip layouts
- High recognition value
- Bespoke perforation patterns
- Integral opening aids
- Unlimited packaging variety

Packing in Cartons

- Folding cartons as secondary packaging
- Intermittent or continuous motion cartoners
- Various inserts possible
- Glued or tuck-in closures
- Tamper-evident features
- Seamless track & trace

Final Packaging

- Shipping cases as final packaging
- Fully or semi-automatic machines
- Adhesive tape or hot melt closure
- Aggregation for serialised packaging





Delivering Solutions

Integrated Strip Packaging Solutions

Romaco Siebler is a leading supplier of heat-sealing machines for packing pharmaceutical solids in strips. The manufacturer provides modular system solutions which enable both a direct connection to the tablet press and transfer to in-line secondary and tertiary packaging units. Format changes can be completed quickly and easily thanks to the integrated robotic transfer units.

Individual-shaped design strips can likewise be manufactured using Romaco Siebler machines. When it comes to quality, performance and the range of applications, no wish is too big. Siebler strip packaging lines are configured exactly according to your requirements. We develop the ideal packaging concept whatever the product – don't hesitate to ask for advice!



Line Integration

- Upstream tablet press reduces broken tablets and waste to a minimum
- Special transfer station conveys effervescent tablets gently to the heat-sealing machine
- Robotic transfer of the strips to the cartoner in case of frequent format changes
- Servo-driven, multiple-lane transfer and stacking of the strips

Premium Sealing Quality

- Bespoke sealing patterns
- Reproducible sealing parameters: pressure, temperature and time
- Extremely precise temperature distribution on the sealing surfaces with multiple heaters
- Efficient control of temperature tolerances with various temperature sensors
- Proven cutting and perforation technology

Proven Design

- cGMP compliant balcony architecture
- Compact machine with a very small footprint
- Heat-seal system with quick-change format parts
- Easy access reduces retooling and cleaning times to a minimum
- Excellent OEE values thanks to high availability, product quality and output

Advanced Level of Automation

- Servo motors guarantee maximum precision and efficiency
- Central communication control at the interfaces between the different line components
- Maximum performance: six FlexPickers deliver up to 900 strips per minute
- Flexible-format, robotic transfer solution



Training

- Qualified training and seminars for machine operators and maintenance personnel
- GMP compliant training concepts with continuous performance reviews
- Training provided on the customer's site or at Romaco's
- OEE support: systematic optimisation of overall equipment effectiveness



Maintenance and Remote Assist

- Individual maintenance and Remote Assist contracts
- Remote Assist permits prompt and reliable diagnostics
- Real-time support thanks to customer service "at the push of a button"
- Virtual communication using smart glasses
- Telephone hotline in case of an emergency
- Team of service technicians on hand to carry out assignments worldwide



Retrofits and Upgrades

- General overhaul and modernisation projects help improve economic efficiency
- Individual solutions
- Active obsolescence management extends the service life
- Feature enhancements enable increased flexibility
- Plant relocation planning and execution



Installation and Commissioning

- Installation: project planning and execution
- Commissioning and initial briefing for operators
- Qualification support
- Ramp-up support with shortened start-up phase



Spare Parts

- Spare parts packages tailored to each individual machine
- All spare parts available for a minimum of ten years
- Durable original parts that fit exactly
- Short response and delivery times
- Decentralised warehousing ensures local availability



Original Parts

- Format sets compatible with all machines in the same series
- High-precision parts that fit exactly
- Format centre: each part is rigorously tested by Romaco before it leaves the factory
- Machine parameters and qualification documentation included in the scope of supply





Line Configurations

Choose from our portfolio!

Tableting

Kilian KTP 720X

Double-sided rotary press for effervescent, mono and bi-layer tablets

 Up to 1,020,000 tablets/hour

Kilian KTP 590X

Single-sided rotary press for effervescent, mono and bi-layer tablets

 Up to 510,000 tablets/hour

Kilian KTP 420X

Single-sided rotary press for effervescent and mono-layer tablets

 Up to 360,000 tablets/hour

Transfer

Romaco TabTrans

- + Transfer belt with sampling, breakage elimination and metal check unit
- + Rotary table
- + Ascending belt

Primary Packaging

Siebler HM 1

Strip packaging machines for pharmaceutical solids

 Up to 6,400 tablets/minute
Up to 4,000 capsules/minute

Siebler HM 1E

Strip packaging machines for effervescent tablets

 Up to 3,300 tablets/minute

Siebler HM 2

Strip packaging machines for diagnostics and flat/stable products

 Up to 1,500 products/minute



Transfer

Siebler FlexTrans

Robotic transfer station

⌚ Up to 900 strips/minute

Siebler FixTrans

Servo-driven stacking and transfer station

⌚ Up to 1,040 strips/minute

Secondary Packaging

Promatic PC 4000

Continuous motion cartoner

⌚ Up to 400 packs/minute

Promatic PCI 915

High-speed intermittent motion cartoner

⌚ Up to 150 packs/minute

Promatic P 91

Intermittent motion cartoner

⌚ Up to 130 packs/minute

Siebler CM 1-500

Catch cover packaging

⌚ Up to 700 packs/minute

Track & Trace

Promatic PTT

Labeller and track & trace system

⌚ Up to 400 packs/minute

Tertiary Packaging

Promatic PAK 320

Fully automatic case packer with track & trace

⌚ Up to 8 cases/minute

Promatic PAK 130

Semi-automatic case packer with track & trace

⌚ Up to 5 cases/minute

Promatic PAK 100

Semi-automatic case packer

⌚ Up to 5 cases/minute

Romaco Pharmatechnik GmbH

Am Heegwald 11
76227 Karlsruhe
Germany

P +49 (0)721 4804 0
F +49 (0)721 4804 211
E siebler@romaco.com

www.romaco.com

 **INNOJET**
Herbert Hüttlin

 **KILIAN**

 **NOACK**

 **SIEBLER**

 **PROMATIC**

 **MACOFAR**

 **BOSSPAK**

