



Solutions for Effervescent Products





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!



»For many years now, we've trusted in solutions by Romaco Siebler, the industry's technology leader, to pack our effervescent tablets in strips and rigid tubes.«

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



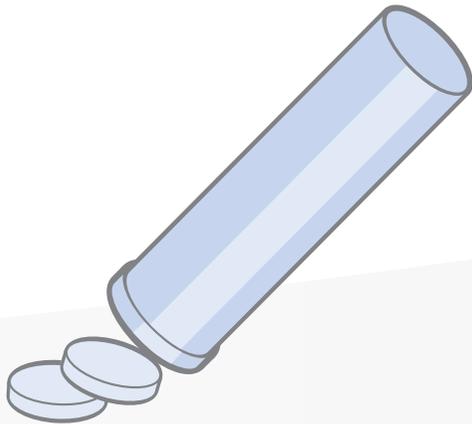
Delivering Solutions

Leader in the Effervescent Tablets Sector

Tableting and packing of effervescent products are part of Romaco's core competencies. We are thoroughly familiar with the complex processing steps for this sensitive dosage form, which is easily affected by light, air and moisture. Owing to their porous structure, effervescent tablets moreover tend to be friable and break. No problem for our machines: thanks to Romaco's technologies, your products are compressed and packed quickly and reliably.

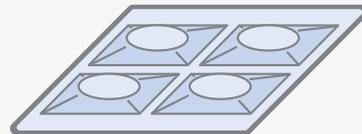
Production of Effervescent Tablets

- Freely scalable solutions for the pharmaceutical, food and chemical industries
- Safe processing of hygroscopic powders
- Suitable for tablets with a smooth, polished surface
- Reduction of lubricants provides optimal hardness
- Tablets dissolved without a grease film



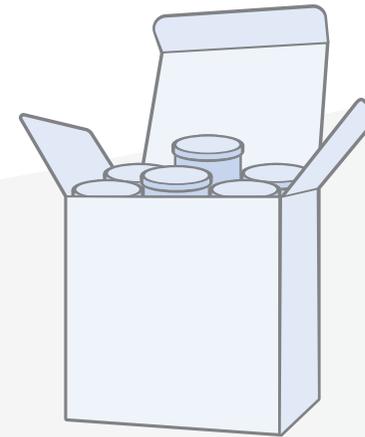
Packaging in Rigid Tubes

- Ideal for filling into plastic or aluminium tubes
- Tubes in numerous shapes and sizes
- Reliable processing even of very short tubes ≥ 50 mm
- Many different closures, stoppers and caps can be applied
- Inkjet printing



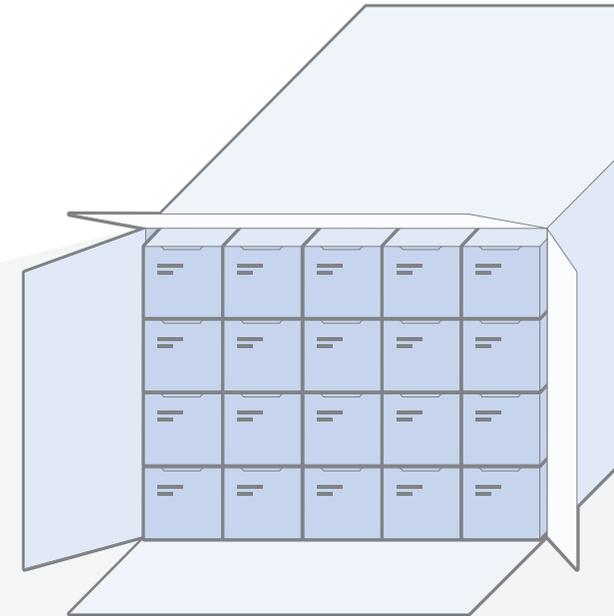
Packaging in Sealed Strips

- Unit dose packaging of effervescent tablets
- Air, light and moisture-tight strip packaging
- Soft compound aluminium foil material
- Aluminium foil thickness reduced to ≤ 10 μm
- Strip formats and geometries can be varied
- Print mark registration possible for both foil rolls



Secondary Packaging

- Folding cartons as secondary packaging
- Intermittent or continuous motion cartoners
- Insertion of leaflets or medical devices
- Glued or tuck-in closure
- Tamper-evident features



Final Packaging

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





Delivering Solutions

Turnkey Solutions for Effervescent Products

Integrated line concepts for manufacturing and packing effervescent products are our speciality. Romaco's all-in-one solutions combine four process steps: tableting as well as primary, secondary and tertiary packaging. Various transfer systems round off the portfolio. Do you pack your effervescent tablets in heat-sealed strips or would you rather fill them into rigid tubes?

Our technologies let you choose! Romaco's effervescent lines are individually configured according to the application – your wish is our command! Our modular concepts can also be realised in a very small footprint because a linear arrangement of the components is not essential. A perfect solution exists no matter how little space is available – that's the Romaco maxim.



Tableting Included

- Presses specially designed for manufacturing fragile effervescent tablets
- Extended dwell time means less risk of capping
- Homogeneous compression
- External lubrication with magnesium stearate
- Broken tablets and product waste reduced to a minimum
- Optimised tablet chute ensures controlled discharge

Filling Into Tubes

- Tube fillers with only a small number of compact format parts
- Effervescent tablets filled gently according to the rotation principle
- Safe handling of very small, thin and soft tablets with a hardness down to 40 N
- Suitable for any tube length of 50 mm or more
- Reproducible processes because parameters are precisely defined
- Quick and easy to clean

Packing in Strips

- Compact heat-sealing machines with GMP compliant balcony architecture
- Reproducible sealing parameters: pressure, temperature and time
- Precise temperature distribution on the sealing surfaces
- Bespoke sealing patterns
- Heat-seal system with quick-change format parts
- Proven cutting and perforation technology
- Retooling and cleaning times reduced to a minimum

Innovative Transfer Systems

- Tablet transfer belt with integral sampling, breakage elimination and metal check unit
- Rotary table with a protective enclosure which can be opened right up
- Robotic transfer of the strips facilitates frequent changeovers
- Servo-driven, multiple-lane transfer of the strips with stacking station
- Tube discharge with controlled pick & place removal



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 integral sampling, breakage elimination and metal check unit
+ Rotary table

Primary Packaging

Siebler HM 1E

Strip packaging machines for effervescent tablets

 Up to 3,300 tablets/hour

Primary Packaging

Siebler STF 120

Tube filling machine

 Up to 120 tubes/minute



Transfer

Siebler FlexTrans

Robotic transfer station for strip packaging

🕒 Up to 900 packs/minute

Siebler FixTrans

Servo-driven strip stacking and transfer station

🕒 Up to 1,040 packs/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

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 cartons/minute

Promatic PAK 130

Semi-automatic case packer with track & trace

🕒 Up to 5 cartons/minute

Promatic PAK 100

Semi-automatic case packer

🕒 Up to 5 cartons/minute

Romaco Pharmatechnik GmbH

Am Heegwald 11
76227 Karlsruhe
Germany

P +49 (0)721 48 04 0
F +49 (0)721 48 04 211
E siebler@romaco.com

www.romaco.com

 **INNOJET**
Herbert Hüttlin

 **KILIAN**

 **NOACK**

 **SIEBLER**

 **PROMATIC**

 **MACOFAR**

 **BOSSPAK**

