







### **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!





### Granulation, coating and drying from Romaco Innojet

Romaco Innojet is an innovation leader for granulation, coating and drying with a range of high-efficiency processing machines for the pharmaceutical, food and chemical industries. More than a hundred users worldwide trust in Romaco Innojet solutions, which were originally developed and internationally patented by Dr. h.c. Herbert Hüttlin.

### Innovative air flow bed technology

All Romaco Innojet machines can be supplied as laboratory, pilot or production scale equipment. They are based on the air flow bed technology, which optimises the core processes in the fluidised bed and provides linear scale-up of all process parameters. This results in significantly shorter processing times and excellent, reproducible product quality.

### Range of applications

Granulation of powdery substances:

- Improved flowability and compaction properties
- Preparation for tableting
- Dust binding
- Optimised release kinetics

Coating solid particles:

- Improved stability and shelf life
- API coatings with controlled release
- Multilayer coatings
- Taste masking
- Moisture protection

### History

Innojet Herbert Hüttlin was established in Steinen (Germany) in 1997. The firm first began developing, designing and building processing machinery in 2003. Innojet Herbert Hüttlin has been a member of the Romaco Group since 2015.

### Tablet presses from Romaco Kilian

Romaco Kilian designs tablet presses for the pharmaceutical, cosmetics and food industries as well as various industrial applications. For more than 125 years, users in more than 100 countries have been relying on Romaco Kilian's solutions. To date, well over 3,000 machines have been delivered.

### Pharmaceuticals expertise in quality control and process optimisation

Along with standard tablets in a variety of sizes and versions, multi-layer tablets with two to five layers as well as core-coating and micro-tablets are produced on Romaco Kilian machines. The Romaco Kilian portfolio is used both for serial production and in laboratories. Depending on the production requirements, it is recommended to incorporate the tablet presses into Romaco's line configuration.

### Range of applications

Romaco Kilian offers tablet presses for various applications:

- Pharmaceuticals: tablets and effervescent applications
- Food such as stock cubes, sweeteners and glucose
- Chemicals such as dishwasher detergents, detergents and fertilisers
- Bodies of solids made of metal, ceramics and plastic
- Healthcare products such as denture cleansers and bathing salts

### History

Kilian was founded in Berlin (Germany) in 1875. In 1946, the company moved to Cologne (Germany). Since 2013, Kilian has been part of the Romaco Group.





### Secondary and final packaging technologies from Romaco Promatic

Romaco Promatic has a well established global presence with its cartoning solutions. The technology is based on intermittent and continuous horizontal cartoners. Vertical cartoners, stretch banders and case packers complete the product range. So far, more than 1,700 machines have been used worldwide.

### Individual feeding solutions combined with high line compatibility

Romaco Promatic has specialised in the implementation of specific and customer-orientated product feeding solutions. Due to their modular structure, the cartoning solutions can be integrated into complex line configurations quickly and easily. Romaco Promatic has a suitable solution for the pharmaceuticals, cosmetics and food industries.

### Range of applications

Romaco Promatic packs a multitude of products:

- Blisters and strips
- Ampoules and vials
- Tubes, spray cans and bottles
- Bottles, jars and glasses

Typical packing accompaniments:

- Instruction leaflets and booklets
- Spoons and pipets
- Inserts and trays
- Medical products

### History

Promatic was founded in Bologna (Italy) in 1985. Since 1992, Promatic has been part of the Romaco Group. In 2010, the company moved to Rastignano, near Bologna, the location of Romaco S.r.l. in Italy.



### Liquid, powder and capsule filling from Romaco Macofar

Romaco Macofar offers an extensive product portfolio focusing on the dosing and filling of pharmaceutical liquids, powders and granules. Depending on the application, either a standard or an aseptic version of the technical solutions is available. The machines are suitable for processing both human and veterinary medicine. So far, more than 1,900 machines have been installed by Romaco Macofar.

### Highest standards of quality in the filling and dosage of pharmaceuticals

In the processing of sterile liquids and powders, compliance with the prescribed SAL values is an absolute essential. Accordingly, all of Romaco Macofar's solutions fulfil the strict cGMP guidelines. In the configuration of integrated pharmaceutical lines, users benefit from the broadly positioned Romaco Macofar portfolio.

### Range of applications

Romaco Macofar offers complete solutions from one source:

- Aseptic and non-aseptic liquid and powder filling machines
- Capsule filling machines
- Washing equipment for bottles, ampoules and vials
- Depyrogenation tunnels for bottles, ampoules and vials
- Capping machines
- Laminar flow concepts

### History

Macofar was founded in Bologna (Italy) in 1972. Since 1991, Macofar has been part of the Romaco Group. The company's location in Rastignano, near Bologna, is also the location of Romaco S.r.l. in Italy.



### Electronic counting systems from Romaco Bosspak

Romaco Bosspak supplies electronic counting systems for filling pharmaceutical solids into glass or plastic bottles. About 500 of these counting systems are in use today around the world.

### Absolute counting accuracy during bottling

Romaco Bosspak technologies are based on a unique counting system known as Quad Count. This optical matrix counter ensures an absolutely reliable process because every single product is scanned from four sides. The compact counting machines are thus particularly ideal for handling high quality and potent pharmaceuticals or for validating conventional systems.

### Range of applications

Romaco Bosspak processes a wide range of products:

- Tablets
- Hard and soft gelatine capsules
- Oblongs
- Suppositories
- Round or tube-shaped products
- Oval, concave, oblong or triangular products
- Products sized from 4.0 to 30 mm

### History

Bosspak was founded in Brisbane (Australia) in 1988. Since 1998, Bosspak has been part of the Romaco Group. In 2006, production was transferred to Karlsruhe (Germany), the location of Romaco Pharmatechnik GmbH.



### Romaco Services

With Romaco, you are assured of a reliable partner throughout your machine's lifespan. Romaco services add value for you systematically and continuously. They cover everything from user training for your employees to maintenance concepts and OEE audits.

### Laboratories and Technology Centres

Perfect your products and formulations at our four European technology centres. Take advantage of our extensive experience to support your research and development activities in several key areas: drying, granulation and coating, tableting, blister and strip packaging and powder dosing.

### Portfolio

Romaco's customer service leaves nothing to be desired:

- Training
- Maintenance & Remote Assist
- Retrofits & Upgrades
- Installation & Start-up
- Spare parts
- Formats & Tools

### Global Reach

We're there to help whenever you need us! In addition to our telephone hotline, we also offer you rapid support in the form of Remote Assist as well as virtual support using smart glasses. Our service assignments are organised at a local level deploying highly qualified technicians.

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 **KILIAN**

 **NOACK**

 **SIEBLER**

 **PROMATIC**

 **MACOFAR**

 **BOSSPAK**