



Cartoning Solutions



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Beyond Technology

The new business model from Romaco sets valuable incentives for meeting customer requirements. For the design of innovative solutions, Romaco relies on its unique knowledge portfolio. With its diverse brands, Romaco focuses on important technological fields of competence. The single product lines offer the optimum

prerequisite for the development of comprehensive solutions. Romaco promises its customers professional project handling, fast delivery times and a reliable service. Through this, Romaco provides its customers with a considerable boost to their earning and financial power.



Creating Value – best price/performance ratio

Romaco wins over its customers by offering an outstanding price/performance ratio over the entire life cycle of its products. In this way, customers can systematically optimise their cash flow. With efficient production and service management, Romaco prepares its customers for future long-term commercial success.

Delivering Solutions – high application expertise

Romaco offers integrated solutions for the growing markets of pharmaceuticals, cosmetics, food and industrial applications. Here, the customer benefits from the synergetic effects that result from the close collaboration of all the Romaco brands. This internal technology transfer imparts a considerable development potential and is the basis for comprehensive solutions.

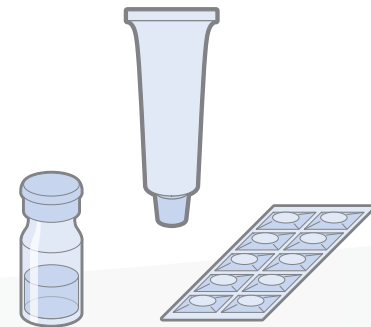
Exploiting Technologies – strong brands

Romaco is synonymous with European engineering on the highest level. With its seven brands, the company is widely recognised around the world. Continuity and progress are the keys to a strong positioning on the market. Romaco relies on the profound knowledge and the long-time experience of its employees.



» We provide our customers with ergonomic and flexible cartoning solutions that are very simple to operate and extremely efficient.«

Marco Mandrioli, Product Manager Promatic, Romaco S.r.l.



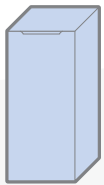
Delivering Solutions

Wide Range of Applications

Secondary and final packaging solutions provided by Romaco can be flexibly configured and are suitable for processing pharmaceuticals, cosmetics, foods, nutraceuticals, healthcare items, medical devices, industrial products and chemicals. The solutions developed by Romaco Promatic are tailored to your individual requirements – independent of product specifications, leaflets and batch sizes. What's more, there is virtually no limit to the number of units per pack.

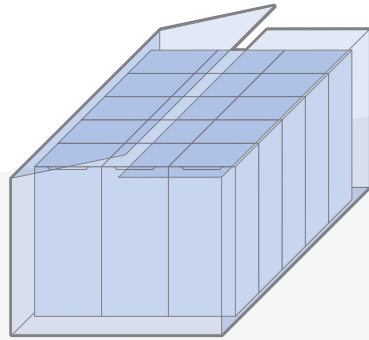
Products in Cartons

- Blister and strip packaging
- Bottles, vials and ampoules
- Tubes
- Sachets and stick packs
- Package inserts: leaflets, booklets, trays, etc.
- Medical devices: spoons, pipettes, spray pumps, spatulas, etc.



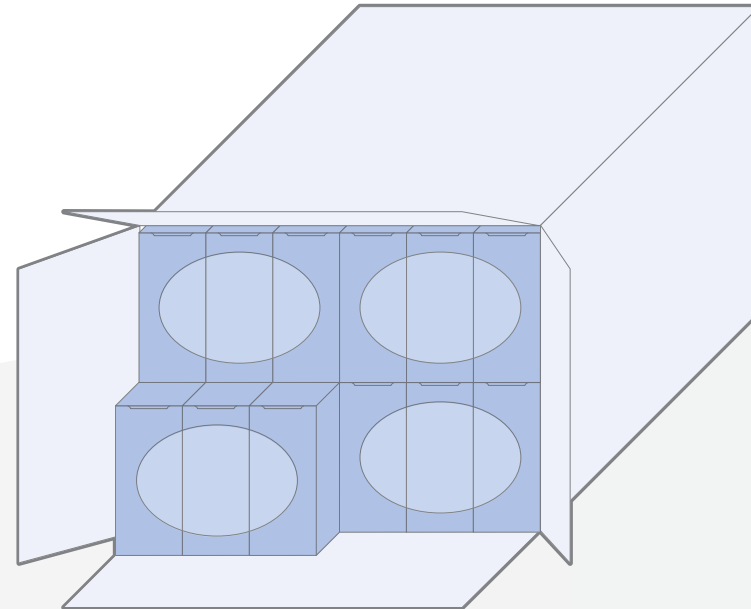
Packing in Cartons

- Wide choice of designs and materials
- Suitable for many different carton sizes
- Glued or tuck-in closures together with a variety of tamper-evident features
- Inkjet, colour embossed, laser engraved or vignette coding



Carton Bundles

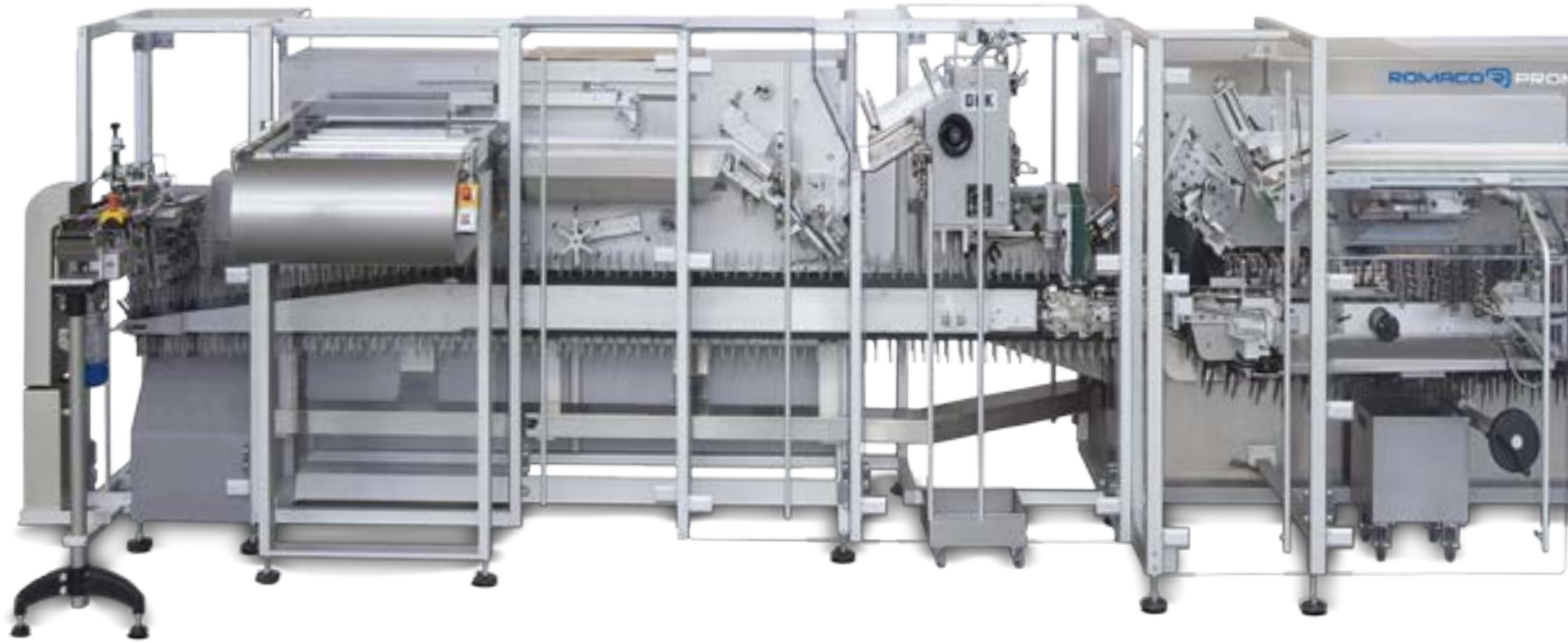
- Complete packaging solution for all folding carton types
- Stretch or shrink wrapping as an alternative



Cartons in Shipping Cases

- Suitable for feeding and packing single or bundled folding cartons
- Adhesive tape or hot melt closure





Delivering Solutions

Efficient Answers

Romaco Promatic cartoning and final packaging solutions are extremely versatile and available in flexible combinations. They can be supplied as standalone equipment or in line with selected primary packaging solutions, depending on your individual requirements.

All horizontal and vertical cartoners, stretch banders and case packers built by Romaco Promatic have an ergonomic design throughout and are exceptionally easy to operate. The machines are ideal for a wide range of applications. Their level of automation is determined by the specific needs of Romaco Promatic customers.



Customised Feed Systems

- Direct connection to primary packaging solutions
- Robotic feed systems can be integrated easily
- Servo controlled Pick & Place systems
- Different items can be packed in the same container
- Multiple packs are not a problem
- Folding cartons can optionally be filled manually

Customised Automation

- Choice of robotic, servo controlled or manual solutions
- Very flexible feeding of products, package inserts and packaging
- Individually defined automation level supports product and format changes
- Fully automatic integration of lines and feed systems

Efficient Line Configurations

- Direct connection to Romaco blister and strip packaging solutions
- Integrated cartoning solutions for filling liquids and powders
- Secondary and final packaging solutions for electronic counting systems
- Flexible configuration of cartoners, stretch banders and case packers

Total Control

- Track & Trace: selected solutions can be provided as options
- Leaflet and carton code readers
- Automatic presence detection for products, leaflets and tamper-evident features
- Positive separation of good packs
- Clearly visualised error messages permit prompt and efficient troubleshooting



The Perfect Solution to any Challenge

The continuous motion cartoners in the Romaco Promatic PC 4000 series are ideally suited for a wide range of applications. They are designed for both high-speed operation and also for medium packaging speeds. These cartoners can be switched flexibly between continuous and intermittent – the recommended mode for processing high stacks, for instance. The PC 4000 cartoner series packs up to 420 folding cartons a minute in continuous mode.

The intermittent motion cartoners in the Romaco Promatic P 91 series are available in a standard or a high-speed version (P 91S). These compact machines boast a maximum output of 140 folding cartons a minute.

Ergonomic Design

- Strict balcony architecture with no supporting structure at the operator side
- cGMP compliant design meets even the most demanding standards in pharmaceutical production
- Easy access reduces retooling and cleaning times to a minimum
- Retractable carton magazine allows optimal access to all machine components and makes format changes easy
- Ergonomic working height for maximum operating convenience

Technical Highlights

- Positive carton opening system: servo controlled carton pick-up protects the materials
- Torque limiters for all drives
- Modular design allows bespoke feed systems and the integration of numerous additional functions
- Reproducible and tool-less format changes in under 15 minutes; stack heights can be modified in less than 10 minutes
- No vacuum pumps: Venturi nozzles produce the vacuum for opening the cartons and folding the booklets
- Low vibration and noise levels thanks to servo motors and belt drives
- Minimal costs for maintenance: toothed belts and pulleys instead of chains and mechanical gears

*Exploiting Technologies
Romaco Promatic PC 4000 Series
Romaco Promatic P 91 Series*



Stacking into the bucket chain



Product feed into the open cartons



cGMP compliant balcony design





Continuous or Intermittent Motion

The Romaco Promatic Bipak vertical cartoner can be flexibly switched between continuous and intermittent mode. With the standard version, the folding cartons are filled manually, which is accommodated by the machine design providing sufficient space for up to four operators. Where Bipak is optionally equipped with various automatic feeding units, the cartons are filled using a Pick & Place system. The products are always fed vertically from above. The cartons are opened and closed automatically. The Romaco Promatic Bipak is therefore ideal for packing upright products.

Maximum Flexibility

- Continuous or intermittent motion
- Manual or automatic product feeding
- Servo controlled main drive allows flexible selection of the operating mode
- Numerous bespoke feed systems available

Ergonomic Design

- Extended feed conveyor simplifies manual carton filling
- Belt drives guarantee low noise level
- Simple control and monitoring on the HMI panel with intuitive navigation
- Quick and easy product changeover
- Manual feeding independent of specific formats

Very Wide Range of Applications

- Suitable for various product types: pharmaceuticals, cosmetics, foods, chemicals and industrial devices
- Gentle packing of vials, jars, tins or unstable containers like lamp bulbs
- Cartons of any size up to 120 mm width, height 80 mm, depth 250 mm can be handled
- Different products or inserts can be packed in the same carton, e.g. spoons, pipettes, gloves and applicators
- Patient information, booklets or instructions for use can be added to each pack
- Multiple packs of upright products are not a problem

*Delivering Solutions
Romaco Promatic Bipak*



Code embossing



Spoon feeding



Vial feeding in intermittent mode



Carton Bundling Made Easy

The stretch banders in the Romaco Promatic SM 2000 series can be supplied with a mechanical (MV) or a servo (EV) drive. Depending on the model, these banders achieve a maximum output of 50 bundles a minute. They are also available with an optional shrink wrapper. The folding cartons can be stacked either lying down or standing up on edge. A carton feed system can be configured on the front of the machine if necessary.

Quick Product Changes

- Tool-less adjustment to the required format in less than 5 minutes
- A complete set of format parts consists of just 3 pieces
- Automatic quick-release system speeds up film changes

Balcony Structure

- Optimal access to all parts
- Short times for retooling, cleaning and maintenance

cGMP Compliance

- Clear structure conforms to high cGMP standards
- Self-cleaning heat-sealing bar prevents foil residues from accumulating

Technical Highlights

- Motorised film handling system at the top and bottom
- Dynamic stacking unit permits higher production speeds
- Sealing station cooled by an air gun

*Exploiting Technologies
Romaco Promatic SM 2000 Series*



Motorised film handling



Strain release during foil unwinding



Stacking unit and hot sealing bar



Ideal Solution for a Wide Range of Final Packaging Applications

The Romaco Promatic PAK 320 case packer is a fully automatic final packaging solution. This side-loading machine fills up to 8 shipping cases a minute at maximum speed. Either hot melt or adhesive tape closure is possible. The clear design of the case packer enables critical operations to be checked optimally, so that machine downtime is reduced to a minimum.

The Romaco Promatic PAK 100 is a semi-automatic case packer that is absolutely affordable. This machine can be used to group, stack and insert folding cartons. The only manual steps are case erection and feeding. Thanks to the simple, compact design, the machine is also extremely simple to operate.

Special Features of the Promatic PAK 320

Ergonomic Design

- Servo controlled case handling with positive opening system
- Vacuum produced by Venturi nozzles
- Vibration-free and silent operation
- Format changes in under 20 minutes
- Modular design with cGMP compliant balcony structure

Quality Control

- Easy integration of quality control systems
- Track & Trace: all systems required for seamless tracking implemented by Romaco
- Folding cartons identified layer by layer

Exploiting Technologies
Romaco Promatic PAK 320
Romaco Promatic PAK 100



Carton feeding

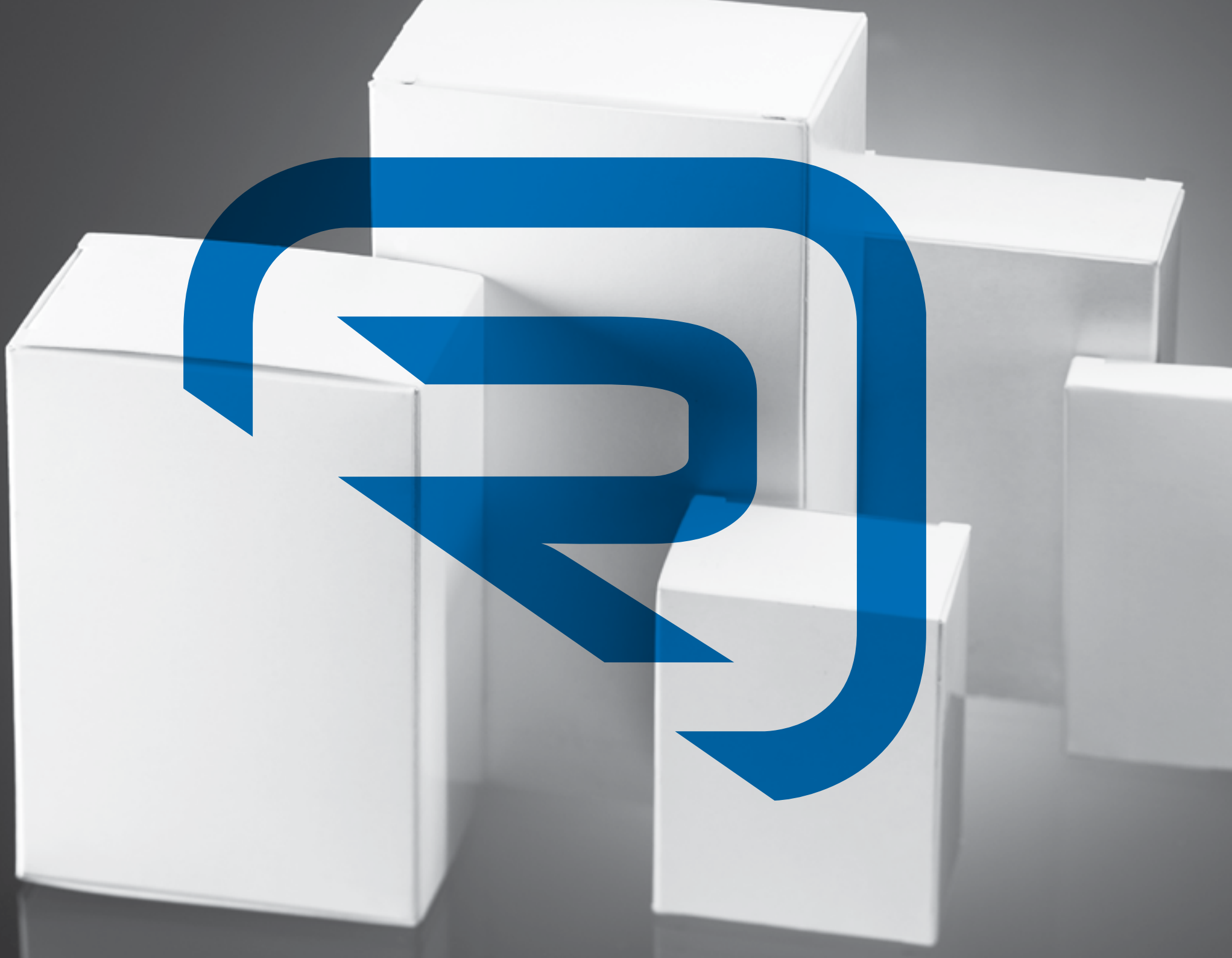


Automatic case erection



Carton flap closure





Creating Value – Romaco generates added value for the customer across the entire life cycle of its solutions

- Romaco is interested in a long-term solution partnership with its customers
- Romaco is familiar with its customers' critical success factors throughout the different life cycle phases of our jointly developed solutions
- The range of services from Romaco is specifically designed for these phases and is delivered through the appropriate modular components
- Romaco optimises the internal processes so that the customer can benefit from more secure decisions within the time gained
- In April 2014 the new business unit Romaco Systems was founded within the Romaco Group: the aim of this unit is to integrate the offering of the Romaco Group into comprehensive solutions

We understand the business model of our customers and with a diverse portfolio we offer the best price/performance ratio for generating additional cash flow.

Benefit for the customer

Across the entire life cycle

- Minimal life cycle costs and low TCO guarantee fast amortisation of the financial investment
- The wide range of customer service products ensures sustainable value creation

In the investment phase (designing value)

- Professional consulting to increase decision-making security
- Short processing and delivery times give maximum scope for investment decision and thus optimum decision flexibility
- Customised solutions development for the optimum preparation of the implementation phases (ramp-up and production)
- Reliable and customer-orientated project management according to efficient milestone principles provides professional delivery

In the ramp-up phase (leveraging value)

- The production phase is reached more quickly due to shortening of ramp-up
- Transfer of expertise provides increased security to the customer in implementing production systems at the highest level
- Minimisation of ramp-up costs

In the production phase (harvesting value)

- Maintenance of the value stream due to quick customer service response times
- Best delivery times in service, format and spare parts
- Consulting on the optimisation of the OEE
- Continuous training of the customer team
- Extension of the life span

Creating Value

Creating Value describes our constant willingness to secure our customers' – and our own – financial success.



Comprehensive Range of Services from Initial Installation and Throughout the Operating Lifespan

Commissioning

- Installation: project planning and execution
- Commissioning and initial briefing of operators
- Process validation support
- Ramp-up support with shortened start-up phase

Production Optimisation

- Support for customers regarding the systematic optimisation of OEE values
- OEE audits on the customer's premises
- Detailed analyses of internal processes and downtime
- Combination of lean expertise and technical plant know-how

Maintenance

- Telephone advice available from Romaco experts
- Expert system guarantees coherent and efficient assistance
- Remote online support: prompt and reliable diagnostics using digital access
- On-site service: local emergency support provided where necessary
- Maintenance contracts: preventive maintenance reducing breakdowns to a minimum

Retrofit, Expansion and Relocation

- Standard packages and customised solutions for machines in all series
- Special feed systems for complex products and specific layouts
- Plant relocation planning and execution

Training

- Qualified training and seminars for machine operators and maintenance personnel
- FDA compliant training concepts with continuous performance reviews
- Provided on the customer's site or at the Romaco training centre

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



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