

# NUTRACEUTICAL INDUSTRY

PROCESSING AND PACKAGING SOLUTIONS



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# TOTAL NUTRACEUTICAL PARTNER

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## At your side in your world

A history of reliability and continuous innovation built on the experience spanning over 50 years: this is IMA! World leader in the field of automatic processing and packaging machines and an excellent partner, IMA offers customised tailor-made solutions to meet the requirements of the nutraceutical industry. A high technological profile and meticulous attention to service support the market's quest for efficiency and cost-effectiveness. Thanks to its proven expertise, IMA is ready and determined to respond to the demands of the nutraceutical sector by supplying machines designed to ensure flexibility, reliability and life-long efficiency. This constitutes the premise for introducing four divisions - IMA Active, IMA Life, IMA Safe and IMA BFB - all highly motivated to offer a complete range of solutions and reliable partnership to the world of nutraceuticals.



# IMA DIGITAL



## GREEN SOUL, DIGITAL BRAIN

IMA is where  
**DIGITAL**  
has become real

IMA Digital represents the core of technological innovation and the cornerstone of digital transformation within the IMA Group. With a holistic approach that encompasses all aspects of pharmaceutical and nutraceutical manufacturing, this project provides advanced solutions for efficient and secure production facility management. Designed for both internal use and a global clientele, the solutions proposed by IMA Digital position the company at the forefront of the industrial landscape, combining cutting-edge technologies with an integrated and secure approach. IMA Digital is committed to being a trusted partner, addressing current and future challenges in the sector alongside its customers. The power of IMA Digital is evident in its commitment to the development and implementation of advanced technologies for plant monitoring, supported by artificial intelligence and machine learning algorithms. This approach, enriched by digital training programs and platforms dedicated to plant management, is supported by a solid technological know-how that constantly enhances production performance.



Supporting

# NUTRACEUTICAL to go beyond

IMA Digital projects include the development and application of artificial intelligence, divided into traditional AI and generative AI. Virtual laboratories provide the ideal environment for the development and testing of traditional AI through pilot projects, while collaborative platforms facilitate the exchange of innovations and solutions among IMA, its partners and customers. Generative artificial intelligence solutions streamline access to information and contribute to the training of customer operators, speeding up issue resolution. Efforts in the field of artificial intelligence are integrated with services for remote monitoring of production facilities and advanced cybersecurity solutions, crucial for protecting data and ensuring the integrity of industrial operations. This system ensures the security of digital operations and interactions with machines, creating a safe environment for the flow of strategic data. In addition to these innovations, IMA Digital offers a wide range of digital services and solutions to improve and simplify the management of installed equipment located at customer sites. From digital training to e-commerce, the goal is to provide comprehensive support to optimise production operations.

# SUSTAINABILITY



IMA is where

## SUSTAINABILITY

has become driver of change

Sustainability is the cornerstone of IMA, driving decisions and actions across three essential pillars: people, profit, and the planet. Since publishing its first Sustainability Report in 2013, IMA has remained steadfast in reinforcing a responsible business model, where sustainability is not just an obligation but an integral part of its strategy, innovation, and long-term value creation.

Over the years, IMA has turned this commitment into tangible actions, from building production plants that meet stringent environmental standards to designing automatic machines that balance performance, efficiency, and sustainability. By embedding ecological transition principles into product development, IMA actively contributes to global decarbonisation and the circular economy, shaping a more sustainable industrial landscape.

Beyond its direct operations, IMA engages its entire value chain, collaborating with suppliers to promote responsible sourcing and align with the highest environmental and social standards. By integrating sustainability across all aspects of its business, IMA strengthens its leadership in automation while driving measurable progress toward a lower-impact, more efficient industry.



Helping

# NUTRACEUTICAL to support the environment

Addressing sustainability in the nutraceutical industry presents distinct challenges, demanding a delicate balance between environmental & social responsibility, product performance (quality & safety), and user experience. IMA Pharma addresses these challenges through ambitious and innovative projects like IMA LOW (Low Impact Program) and IMA NOP (No Plastic Program). Tackling energy efficiency, waste reduction and fostering the use of eco-friendly materials all underscore a commitment to advancing sustainability within the complex landscape of nutraceutical manufacturing. One tangible example of this strategy is OPENLab, the network of IMA laboratories that research and develop new sustainable packaging materials, working together with packaging manufacturers and customers to promote plastic substitutes that can be processed on IMA machines.

# SOLID DOSE PROCESSING

## Solutions

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## A protection that is always active

Herbs, minerals, vitamins and all the nutraceutical products have to be carefully processed to maintain their fundamental properties. At the same time, they often feature challenging characteristics such as low flowability, high abrasiveness, low compressibility or high percentage of fine particles. Over several years, IMA Active has conducted in-depth research into the critical areas of nutraceutical manufacturing and developed a wide range of dedicated technological solutions. Machines are designed to provide superior versatility, are easy both to operate and maintain, and ensure reliability, efficiency and accuracy even with the most difficult products. Particular care has been taken to build sustainable machines with low servicing and running costs and assuring a cleaner working environment. Qualified specialists and skilled engineers at the IMA Active Competence Center are available for support, product testing and process set-up.



# SOLID DOSE PROCESSING

## Solutions

### Handling

Many factors affect the correct handling of nutraceutical products and IMA Active has developed a broad range of handling systems and technical solutions. The range includes dispensing and feeding systems, bins and drums, tumblers, lifting columns and high containment valves. Designed to manage nutraceutical products, the equipment is built to address key issues facing manufacturers in this sector.



Covering different needs, holding up to 2,000 litres, **PH-BIN** will ensure efficiency throughout blending phases. The bin can be interfaced with loading/unloading systems and an optional stackable feature saves floorspace.



**CYCLOPS** is a flexible bin tumbler for powders and granules with a load capacity reaching 1,500 kg. It accepts different IBC types and is excellent for hard-to-handle products. Through-the-wall installation is possible.



**BDS** is a dust-tight, mobile bag dumping station, enabling installation flexibility. Designed to handle bags, small containers and boxes of raw materials, it can be interfaced with a vibrating sieve or delumper.

To lift bins, drums and IBCs, the range also features **HERCULES**, a sturdily built column lifter with Blocstop™, a certified safety device that blocks the lifting arm in critical circumstances. The main motor placed at the base of the machine makes for easy maintenance and cleaning, an optional system preventing overload can be integrated.



# SOLID DOSE PROCESSING

## Solutions

### Granulation

Granulation is an important step in the manufacturing process for several nutraceutical products and IMA Active has developed a complete range of appropriate equipment: from small laboratory-scale solutions for R&D purposes to industrial equipment for the production of granules. Obtaining consistently high-quality granules at this stage will increase overall production efficiency and improve ultimate product quality.



With a 2,500-litre capacity, **ROTO MIX** is a high shear mixer granulator with a clean design for easy maintenance. Highly efficient in dry mixing of powders and wet granulation, it can be through-the-wall installed to optimise floorspace and layout.



**ARIA** is a fluid bed processor with a capacity up to 2,000 litres. Designed with a small footprint, it handles varying batch sizes for maximum flexibility. Accessibility is excellent for cleaning purposes.



Manufacturers requiring wet granulation and vacuum drying will be able to use **ROTO CUBE**, a single-pot processor suitable for effervescent formulas. Mixing efficiency is top-level for homeopathic products, and its contained processing reduces product transfer. Gentle handling makes it ideal for temperature and oxygen-sensitive products.

Perfect for small batches that will be accurately scaled up for production, **MYLAB** is a compact, modular unit performing granulation and coating. A fluid bed module with a high shear mixer is available for dry mixing and wet granulation processes. Interchangeable product containers for top and bottom spraying handle 3 to 6-litre batches. Suitable for 0.5 to 10-litre batches, interchangeable drums can be implemented on the coating pan, fully perforated and/or Wedge and/or solid wall execution. The pan is equipped with wave-shaped baffles for optimal core mixing. MAX, the latest-generation IMA HMI, enhances predictability and easy learning, ensuring prompt responsiveness and greater operator efficiency.



# SOLID DOSE PROCESSING

## Solutions

### Tableting

Boasting extensive experience serving the pharmaceutical industry, where tableting demands not only power, but also control in order to ensure accuracy, reliability and consistent quality, IMA Active has developed innovative, patented solutions, applied to tablet presses capable of handling all production volumes. Designed with unique Italian style and built with premium quality construction materials, performance and efficiency last for a lifetime.

**PREXIMA** is a high-performance tablet press that guarantees an output of up to 1,044,000 tablets per hour. Built to handle demanding production requirements, it offers high pre- and main compression forces reaching 100 kN. Despite its impressive production capacity, machine parts enjoy exceptional lifecycle duration thanks to isolation of the processing area. Clever design features ensure fast product changeover and keep operating noise levels below 80 dB.



## Capsule filling

A processing stage in which IMA has excelled over the decades is capsule filling. Today's comprehensive set of solutions boasts over 6,000 installations worldwide, and the success in the nutraceutical sector derives from the quality of the machines and the in-depth understanding of the product. Every application is researched and laboratory-analysed before determining the most effective way to reach customer-set targets.

Technology based on alternating motion of the dosing unit and a rotary bowl ensures no product is lost and each capsule is filled consistently throughout each batch.

Flexible, with an output that can reach 40,000 capsules per hour, the **ZANASI** capsule filling machine performs single dosing of powders, pellets, minitabets, tablets and liquids, or various combinations thereof. Capsules ranging from sizes 000 to 5 can be filled and simple controls enable quick and easy changeover procedures. The processing area is separated from the mechanical parts of the machine, reducing cleaning times and minimising dust migration. Designed as a compact machine, it requires little space in the production area.

For larger volumes and ultra-efficient production, **PRACTICA** provides an output of up to 200,000 capsules per hour. This solution handles powder, granules or pellets and doses the capsule size range 000 to 5. Mechanical machine parts are protected from the processing area to guarantee a longer lifecycle. Easy to operate with simple controls for unskilled staff, and needing negligible maintenance, the machine allows for easy changeover procedures. A weight-checking unit can be fitted to monitor production and enable the machine to self-adjust filling parameters.



# SOLID DOSE PROCESSING

## Solutions

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### Weight checking

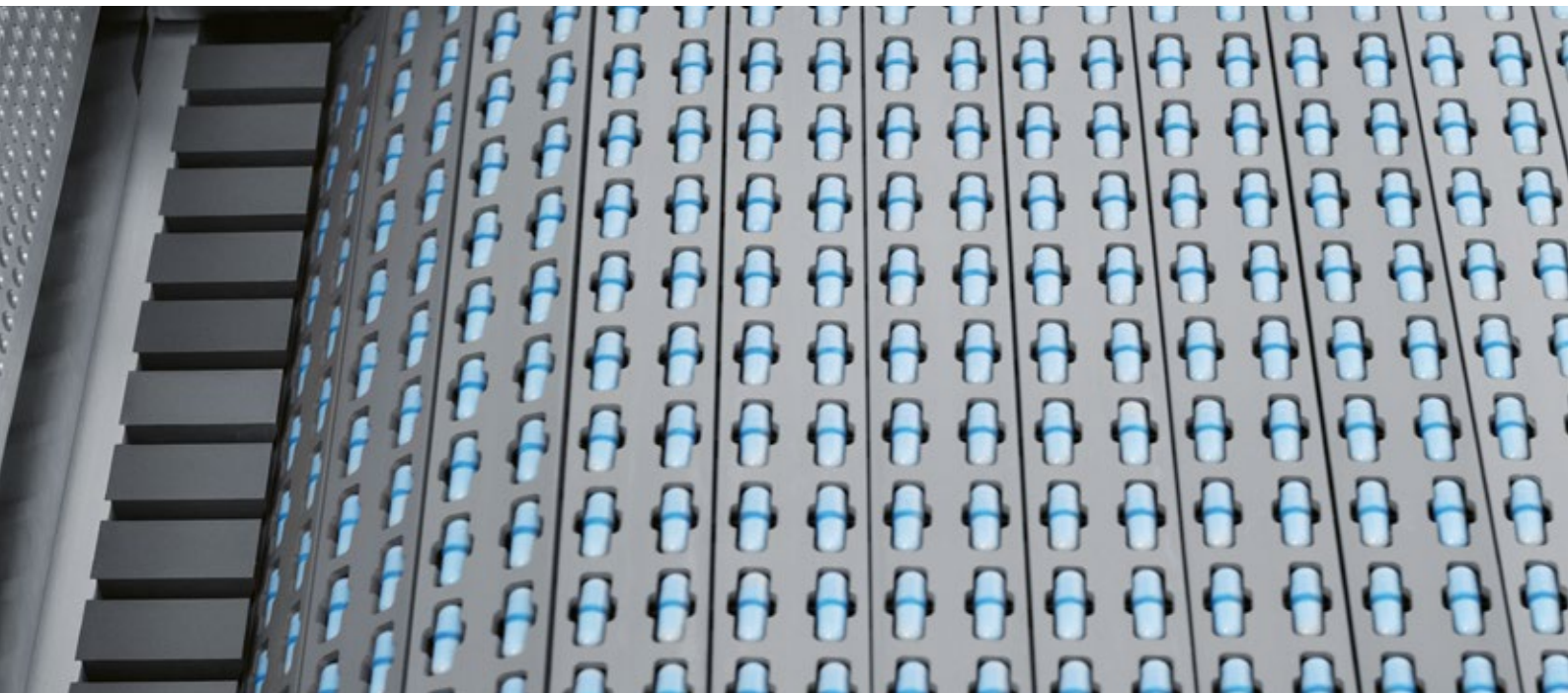
For many nutraceuticals weight is a discriminating factor and 100% control of this aspect partially reflects ultimate product quality. IMA Active weight-checking solutions guarantee full control over capsule weight. Not only are these machines developed to ensure consistency, they are also able to reject out-of-specification or faulty capsules.



Dealing with capsule sizes from 000 to 5, **PRECISA** copes with up to 230,000 capsules per hour in terms of output volumes. The machine has compact dimensions and can be moved around on wheels in order to fit and adapt to the production area. It can also be easily connected in line with all current capsule fillers on the market. Scales accuracy sits within a tolerance of  $\pm 1$  mg.

# Capsule banding

A perfectly sealed capsule is an immediate sign of quality and consumers of nutraceuticals will appreciate the integrity of the product. No shortcuts have been taken when IMA began developing capsule banding solutions as early as the 1970s, designing machines with versatile configurations, an ergonomic layout and ease of use.



**HERMETICA** seals capsules filled with liquid, powder or other products, handling up to 100,000 capsules per hour. Banding is performed by applying liquid gelatine in the form of a ring around the external capsule surface. Banding of gelatine or HPMC capsules in a size range going from 000 to 5 is possible and size changeover procedures allow for production flexibility. Gelatine temperature adjustments and control of viscosity promote the banding quality. The machine's balcony structure makes each process stage visible and easily accessible.

# SOLID DOSE PROCESSING

## Solutions

### Coating

Pioneering coating technologies are behind the 1,500+ successful installations worldwide, and proof of the efficiency and quality of the IMA Active range of coating equipment. Tuned to perfection, the design of both solid wall and perforated pans results in perfect mixing capabilities combined with gentle product handling. Specially conceived baffles also contribute to ideal mixing of the cores and ultimately ensure the coating solution is distributed in a uniform fashion.

Suitable for film and sugar coating, solvent/water based, **EFFECTA** is a coating pan with a maximum capacity of 750 litres, which can work between 25% and 100% capacity for extra flexibility regardless of batch size. Mixing baffles remain covered by the cores even while processing minimum quantities, so that the coating solution is sprayed directly onto the cores without reaching the baffles. When switching from one product to the next, an automatic washing system facilitates changeover. Optional features can be integrated for additional versatility: extended working capacity from 10% to 100%; an automatic unloading system for coated tablets; heated or unheated solution preparation tanks supplied in sizes from 15 to 500 litres.



# Washing

Flexibility and sustainability are hallmarks of IMA Active washing stations, designed to execute washing cycles followed by effective drying and cooling. Wherever cost-efficiency can be implemented, producers of nutraceuticals will benefit from smart solutions that minimise both water and detergent consumption.



**HYDROWASH** is a washing skid that can be used as a stand-alone unit or to feed WIP/CIP systems serving an IBC washing station or to clean high shear mixer granulators, fluid bed processors, tablet presses, capsule fillers and coating pans. Using high pressure, maximum flow rate is 40 litres per minute, while low-pressure operation runs at 70 or 120 litres per minute. Thanks to its compact design, the machine fits easily into the production area.

A true benchmark, **AQUARIA** is a high-performance parts and components washer featuring different racks and baskets to optimise the washing of machine parts, flexible hoses, drums and other components. Water and detergent consumption are kept to a minimum despite the machine's highly effective washing capability and as many as 3 detergent groups with automatic dose regulation help in avoiding any waste. AirJetStream technology drastically reduces drying and cooling times.

# SOLID DOSE PROCESSING

## Solutions

## IMA Active Competence Center

The nutraceutical manufacturing process has precise requirements and guidelines for product quality. Thanks to the know-how gained over the past five decades, the IMA Active Competence Center can help nutraceutical companies accelerate the R&D development process, optimise and customise production processes and conduct trials in an innovative way.

### TEST

- Process implementation
- Pre-registration support
- Feasibility study
- Process risk analysis
- Process validation

### DEVELOP

- Formulation development support
- Up and down-scaling
- Technology transfer
- Process and cleaning validation
- Machine start-up

### OPTIMISE

- Onsite product and process optimisation
- Troubleshooting
- Remote assistance
- Training
- Educational program





# LIQUID PROCESSING

## Solutions

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## Your project, processed with care

In nutraceutical production, precision in processing is crucial to prevent ingredient segregation and contamination, ensuring the product integrity. The effectiveness of the final product depends not only on its formulation but also on the ability of the processing system to adapt to its specific characteristics.

Omas Tecnosistemi designs and manufactures fully integrated, customizable processing solutions that guarantee consistency and quality at every stage. Every step—from designing the machine to the carpentry of individual components—is managed internally, ensuring seamless integration and absolute control over the entire process.

With decades of expertise, Omas Tecnosistemi provides manufacturers with the flexibility and reliability needed to meet the highest standards, delivering tailored solutions that preserve the purity and efficacy of every product.



# LIQUID PROCESSING

## Solutions

### Liquid mixer and turboemulsifier

Achieving uniform and high-quality blends is critical in nutraceutical production, where ingredient consistency directly impacts efficacy and stability. Whether working with powders, liquids, dense or semi-dense consistencies, selecting the right mixing technology is key to ensuring homogeneity, preventing segregation, and optimizing downstream processing. With solutions tailored for everything from small-scale formulation to high-volume production, Omas Tecnosistemi advanced mixing and turbo-emulsification technologies provide the precision and flexibility needed to meet the demands of the evolving nutraceutical market.



Equipped with a variety of blade types, **MIXER** Series is designed to maintain constant product movement and prevent settling. Suitable for any liquid consistency, these mixers improve both product texture and process efficiency by reducing mixing times and enhancing overall quality. Available in a range of capacities from 3 to 5,000 litres, they provide flexible solutions for diverse production needs.



The **TURBOMIX** undervacuum turboemulsifiers with homogenizer are specifically designed for dense or semi-dense formulations. Characterized by high shear energy, our turboemulsifiers are designed to achieve fine particle dispersion and consistent product quality. Ideal for challenging formulations, it ensures optimal mixing results and is a critical tool in high-demand processing applications. TURBOMIX can be offered with a wide range of tank capacities, ranging from 3 to 5,000 litres.



**DISSOLVER** dissolves powders into liquid products, and it is particularly suitable for nutraceutical powdery ingredients. The mixture is kept in circulation with a stirrer to obtain a homogeneous product. Dissolvers can be combined with TURBOMIX or connected directly to the filling machines.



For the efficient processing of fat-based products like waxes and pastes, **PRE-MELTER** ensures uniform melting and temperature control. Available in various sizes and configurations, can be integrated with a turbo-mixing systems or directly into the production line, enhancing process reliability and ensuring optimal preparation of fat-based ingredients.

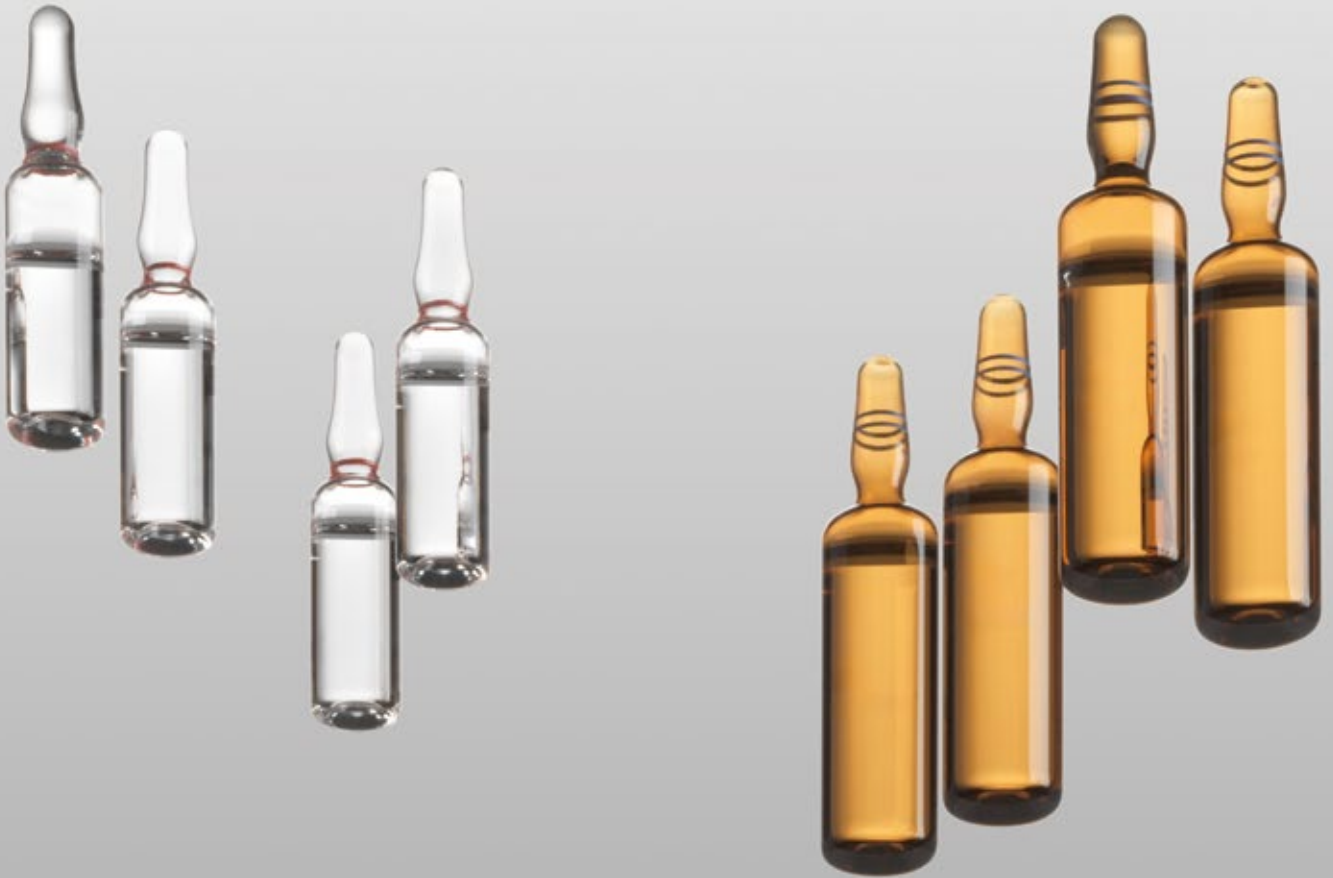
# ASEPTIC PROCESSING

## Solutions

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## Technologies that bring a product to life

A nutraceutical product relies on the benefits it brings to the person who uses it and trusts in its efficacy. Developed in one of the world's most demanding industries, where production is subject to the highest standards, IMA Life technologies preserve the integrity and beneficial effect of those products. Amidst a growing health-oriented culture paying special attention to the product, the approach adopted by IMA Life aims at fulfilling the manufacturer's business objectives while offering packaging solutions that keep the product's nutritive and therapeutic properties unaltered. IMA Life provides a personalised response for each requirement, trustworthy advice and cooperation to help customers reach their specific targets within the context of an ongoing partnership. A full range of flexible, dynamic solutions is available to support a customer's business objectives in a fast-evolving market.



# ASEPTIC PROCESSING

## Solutions

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## Ampoule filling and sealing machines

Where accurate processing and flexible production needs are determining factors, IMA Life supplies a range of solutions that handles filling and sealing operations. Behind the concept lies the evident demand for versatility within the nutraceutical sector, so before defining a solution, all customer requirements are carefully evaluated.



The **STERIFILL** Series of ampoule fillers consists of machine versions with 4, 6, 8, 10 filling nozzles to process 4, 6, 8, 10 ampoules at each machine cycle. Constructed to handle both open and closed ampoules, the machines can be equipped with different filling systems, such as differential pumps, time/pressure or peristaltic pumps, according to customer requirements. The two pre-heating and sealing stations complete the process with adjustable burning time according to ampoule's glass thickness. A highly versatile COMBI version is also available to process ampoules and vials alternately, enabling a fast configuration changeover from ampoule to vial size or vice versa. In the case of vial processing, sealing stations are by-passed and vials are directly conveyed to the stoppering area.



## The value of safety

The safety and effectiveness of dietary supplements, natural remedies or alternative medicine can often depend upon adequate packaging. Without the proper handling of packaging materials, the ingredients themselves are vulnerable to breakdown and contamination. IMA Safe, which includes IMA Swiftpack, IMA North America (IMA Nova), IMA Comadis, IMA PG, Perfect Pack, Omas Tecnosistemi and IMA Sarong, designs and manufactures complete primary and secondary packaging lines and offers a wide range of equipment and technical solutions for nutraceutical products. IMA Safe equipment is reliable, easy to use, requires very little maintenance and can also supply eco-friendly solutions, including the use of recycled packaging material, which reduce the ecological footprint.



## Counting

IMA offers a full range of electronic and slat tablet counters compliant with GMP criteria and able to reach speeds of 400 bottles per minute. IMA is a unique source for complete lines comprising unscramblers, desiccant inserters, bottle blowers, tablet elevators, cottoners, cappers and electronic and slat tablet counting machines. Extremely high counting accuracy is achieved thanks to the technologies featured, ensuring maximum performance and minimum wastage, both of time and product.

The **SVIII** electronic counting systems handle up to 50 bottles or 6,000 tablets per minute. With a small footprint, touch-screen controls, excellent access for cleaning and maintenance, this machine can be configured for any product or container requirement. Count speed and accuracy are optimised through product flow control, preventing surges and ensuring constant flow to the count head, regardless of hopper level. Available with single or twin heads, the machine performs product inspection via optical or electrical field sensors (EFS).



Table top tablet and capsule counters, **SWIFTCHECK** and **SWIFTCOUNT** are designed to feed and count any size, shape or quantity of tablets without change parts. Designed for ease of operation and simple set-up, both machines incorporate a similar microprocessor package that is featured on high-speed SWIFTPACK counting machines, achieving the same high level of accuracy and reliability. The basic unit comprises a stainless-steel cabinet with integrated microprocessor control system, a 5-litre product hopper, vibrator feed arrangement with variable vibration control, quick-release twin-track feed tray and contact parts, stainless steel outlet funnel and clear plastic dust cover.



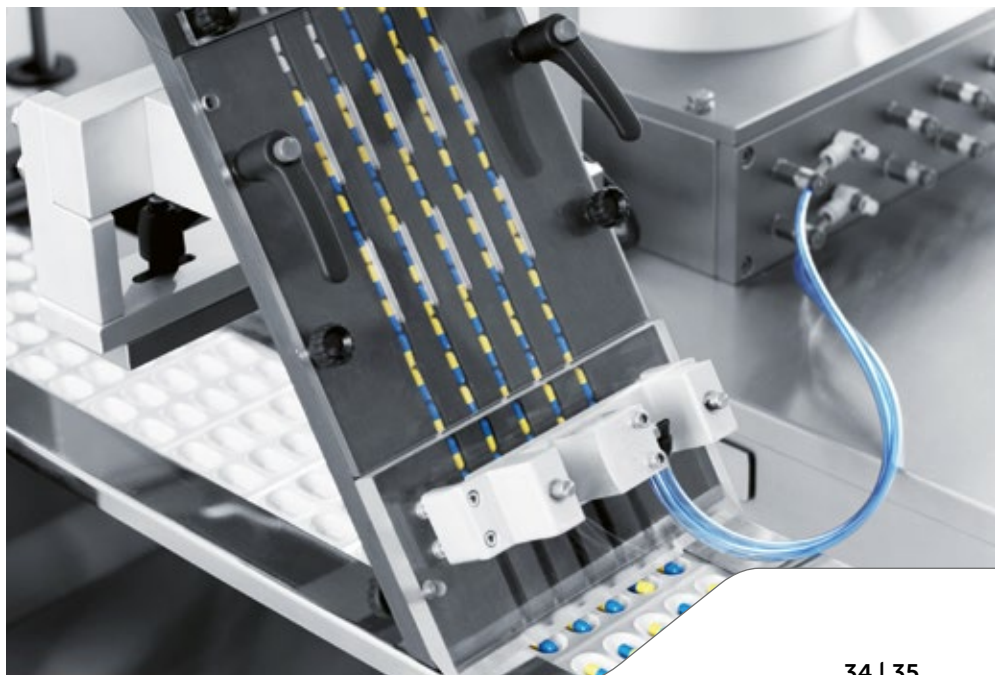
# Blister packaging

IMA Safe boasts the widest range of blister-packaging solutions on the market, from those employed in clinical trials to highly customised solutions and super-speed blister machines that process up to 1,300 blisters per minute, compatible with cartoners running at up to 500 cartons per minute. All customer needs can be satisfied in terms of layout with an offering that includes monobloc machines with positive transport to the cartoner or stand-alone machines equipped with a blister magazine.

The **TR** Series of blister-packaging machines have a compact footprint, are easy to operate, have negligible maintenance costs and ensure the best price-performance ratio in their category. Both GMP-compliant and CE-certified, these machines handle blisters at speeds of up to 350 blister per minute and boast simple size or format changeover procedures.

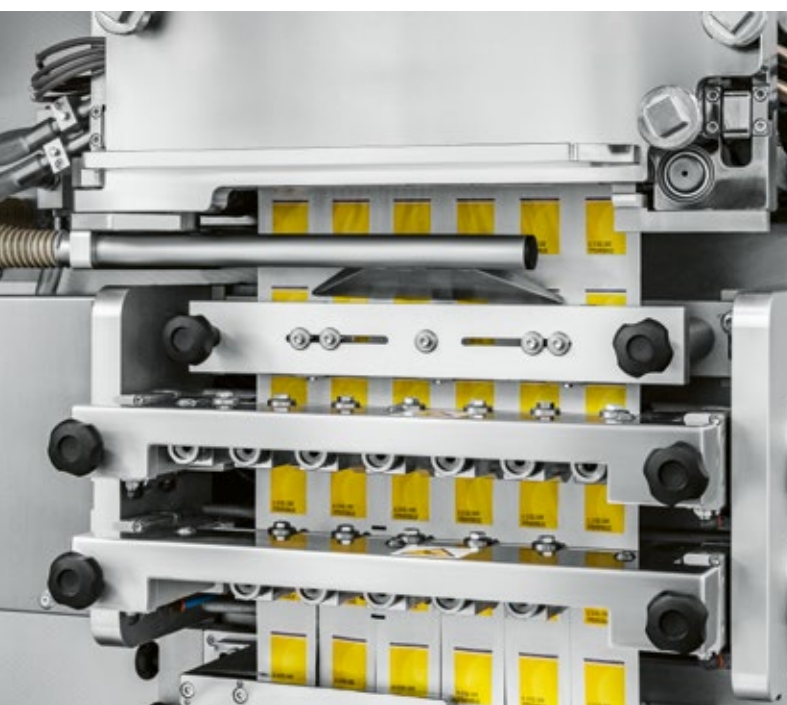


Also CE-certified, **EXCEL SMART** is a recently developed low-to-medium-speed blister packaging solution for up to 180 blisters per minute. With servo-controlled operations, the machine handles thermoform and cold form packaging films. Size parts can be changed quickly without tooling, all stations are at eye-level and the balcony-style construction make this machine an ergonomic, operator-friendly choice.



## Sachet & stick packaging

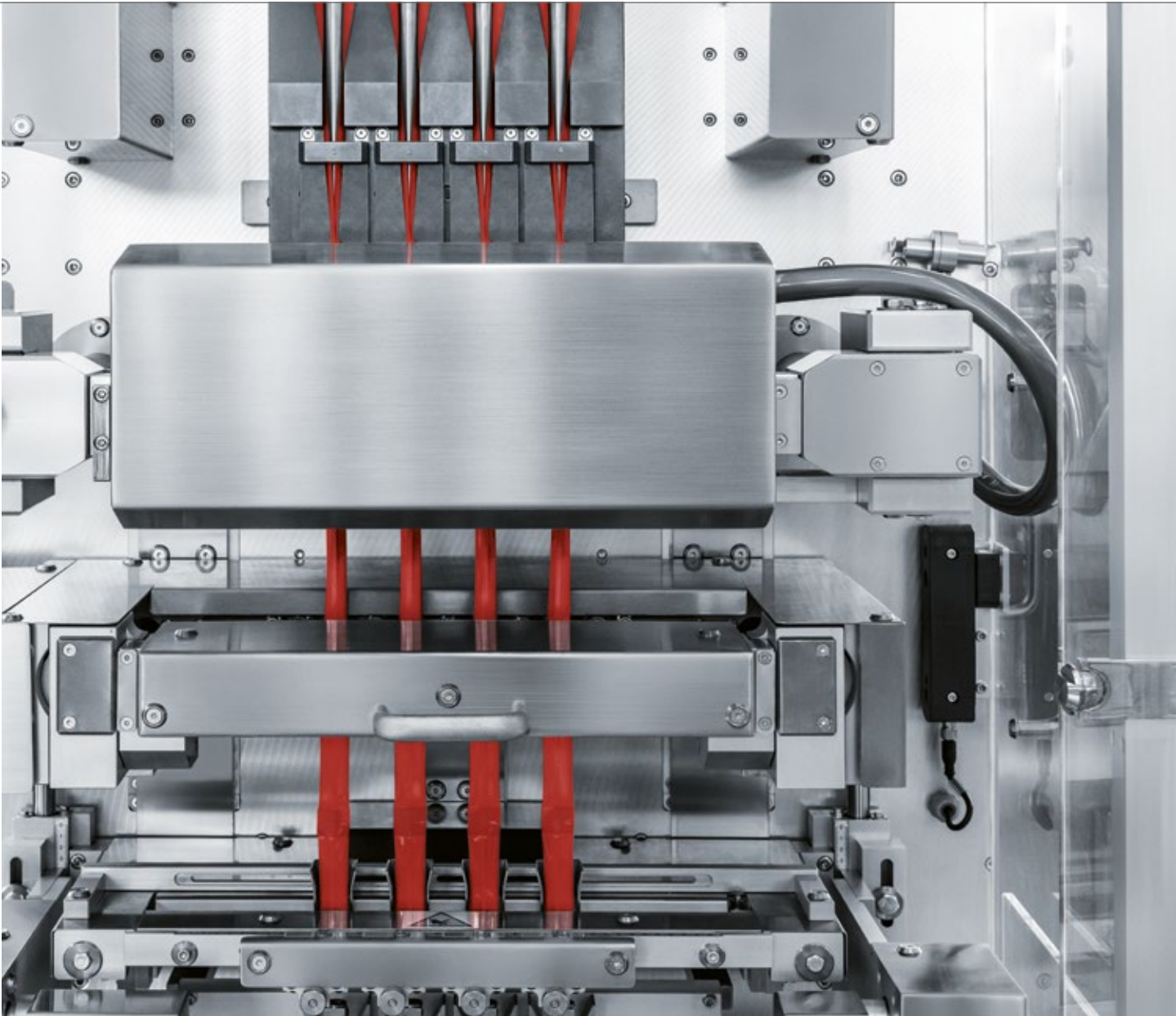
With over 30 years' experience in the design and manufacture of automatic sachet and stick pack machines working with intermittent systems as well as complete packaging lines, we supply Perfect Pack equipment that is synonymous with high quality for companies playing leading roles in the nutraceutical market. All the machines assure easy synchronization with IMA Safe cartoners. Thanks to the CLA stacking and transfer systems, between primary and secondary packaging, total layout flexibility is guaranteed.



Excellent versatility, high performance and easy to synchronize with downstream equipment are the hallmarks of the **BETA** Series vertical intermittent-motion sachet machines. With up to 10 lanes, the machine can process up to 700 sachets per minute. Multiple dosing systems can be installed for alternating productions and, in the case of powder packaging, a double auger can be used to dose different powders into the same sachet. High-quality, first-class looking sachets are produced as the seals are made during the stationary phase.



The **KAPPA** Series of horizontal intermittent-motion sachet machines handles all sachet configurations, including special applications. Processing speeds reach 140 sachets per minute and sealing, performed during the stationary phase, results in a top-class sachet. A wide selection of dosing systems is available. Compact by design, easy to access for cleaning, together with patented systems that minimise size and changeover times, make these solutions practical and efficient.



The **STICK** Series of vertical intermittent-motion stick machines combine performance with exceptional versatility to provide a solution for stick processing at speeds reaching 780 sticks per minute, implementing up to 12 lanes. Extremely flexible in terms of output and dosing systems, these machines will meet any requirement. Multiple dosing systems can be installed for alternating productions and, in the case of powder packaging, a double auger can be used to dose different powders into the same stick. The machine is fully protected with safety guards.

## Unit dose packaging

Unit dose packaging for nutraceuticals, syrups and vitamins requires expertise and IMA Sarong boasts not only targeted experience, but also a wide range of solutions ensuring efficiency, reliability and adaptability to diverse market needs. Meeting high technological standards, the form, fill & seal machines for unit dose packaging applications are the result of over half a century of experience on the international market.

These advanced machines use a continuous plastic film band, unwound from two reels. Each strip is thermoformed inside the forming station using compressed air and heat, then sealed together. The filling process is executed vertically through a volumetric pump, followed by precise sealing and cutting into strips of pre-set container quantities.



Suitable for various shapes and types of packs, **SD** guarantees high sanitary standards, operating under laminar flow to ensure elevated hygienic conditions. Efficient with easy size changeovers, easy to clean and with a processing area that is separated from the mechanical components, SD is ideal for a wide range of liquid and semi-liquid products.

The **FP 40** seamlessly blends traditional engineering with cutting-edge mechatronics and GMP compliance. Its proven versatility handles a wide range of packaging types, offering full customization to meet diverse product needs. Designed for maximum efficiency, the FP 40 ensures quick, effortless changeovers and minimal waste.

## Bottle & jar filling and closing

Omas Tecnosistemi designs and manufactures a wide range of automatic and semi-automatic filling and closing machinery, along with turnkey solutions for liquid, dense, semi-dense, cream and powder products. The product offering is completed by preparation machines such as turbo-emulsifiers, dissolvers, bottle blowers, bottle and cap handling systems. Stand-alone versions are available to ensure superior line composition flexibility, as well as integrated equipment to optimise space and production.



With single and double pitch versions, **G-BLOK** Series intermittent filling and capping rotary monobloc machines feature filling stations with either 2 or 4 filling pumps, which can also be used for multipurpose applications. Both the cap placement by pick & place mechanism as well as the cap torque and closing system are fully automatic.



**POWD-FILL** Series is a semi-automatic filling solution combining precision and flexibility with an advanced electronic drive system, ensuring high-accuracy dosing for various powder products. Equipped with interchangeable auger screws of different types and sizes, it allows quick changeovers to adapt to specific production needs. The intuitive, self-teaching filling procedure, user-friendly HMI, and PLC control simplify operation.

## Tube filling

Tube filling machines by IMA Comadis are designed and manufactured according to highest technological standards, to guarantee reliability and high productivity in a range from 2,000 to 15,000 tubes per hour. Simple changeover procedures, quick disassembly of contact parts and an intuitive HMI are hallmarks of these solutions. Seamlessly integrated with downstream cartoners, they are available with different degrees of automation and a wide choice of additional devices, adapting to all customer needs.

**C1060** is an automatic tube filler with a wide choice of automatic feeders. Features include an easy-to-disassemble dosing pump and a diving nozzle with positive shut-off valve and air-blow cleaning. Change of size parts is easy and tool-free, and closing heads can be interchanged quickly. Customised designer seals can be executed on request. Both smart and effective, this tube filler delivers great performance with a small footprint that integrates the electrical cabinet.



# Cartoning

The nutraceutical industry uses infinite forms of packaging such as blisters, trays, sachets, strips or bottles and versatile cartoning solutions are essential for a growing market where cost reduction and environmental issues are an increasing priority. IMA Safe cartoners are flexible and easy to use, requiring little maintenance. Solutions include recycled materials aimed at reducing the ecological footprint. IMA Safe manufactures low to high-speed equipment, from basic stand-alone machines to customised, integrated lines. Additional devices such as units for leaflet feeding, booklet insertion, printing and camera control are available.



**X** Series multipurpose intermittent-motion cartoner is the best price-performance ratio solution in its range. Thanks to the use of both mechanical and robotized feeding systems, it can handle the widest product variety in the market, processing up to 140 cartons per minute. Maximum versatility, in terms of packable products and carton sizes, is a key feature of this series, also able to handle large cartons thanks to the XL1/XL2 versions. X Series machines can integrate our Roll-One leaflet folding unit.

The **FLEXA** Series features intermittent and continuous-motion cartoners, flexible in terms of carton configurations and dimensions, and extremely versatile in packing the widest range of products. Moreover, this is one of the most compact machines in its class with an ergonomic design that facilitates the loading of packaging materials. Changeover operations are extremely simple, fast and tool-free thanks to servo-motor technology.

## Where precision meets flexibility

In the nutraceutical industry, labelling plays a key role in providing identification of a product. The clarity of its content and the precision of its application are vital, and the huge variety of containers needs to be accounted for. IMA Life has focused on reliability and precision while developing a wide range of solutions that guarantee high performance and excellent versatility. Easily customised according to specific needs, the machines are able to apply front, rear or wraparound self-adhesive labels, also providing solutions for serialisation, integration of Track & Trace systems and different printing capabilities.



# LABELLING

## Solutions

### Labelling machines for vials and bottles

Whether a vial or a bottle, made of glass, plastic or aluminium, cylindrical, oval, elliptical, a round or square jar, or any other size and shape, the IMA Life range of labellers covers all needs. All printing requirements can be incorporated and the machines can be customised to provide the desired level of performance.



Able to apply up to 5 labels and outserts, **HYPER** is a cutting-edge, high-speed labelling machine built on brushless technology and suited to all container types, except ampoules. It ensures precision and enhances productivity thanks to its ability to self-adjust working parameters.



Processing up to 800 containers per minute, including ampoules, **SWIPE** is the ultimate labeller in terms of flexibility and precision. It will also adapt easily to evolving requirements and features tool-free format changes to keep production agile and efficient. Serialisation capabilities that can be implemented on both machines enable Track & Trace for single containers. Overprinting devices and vision systems can also be incorporated to read and check data.

## Labelling machines for cartons

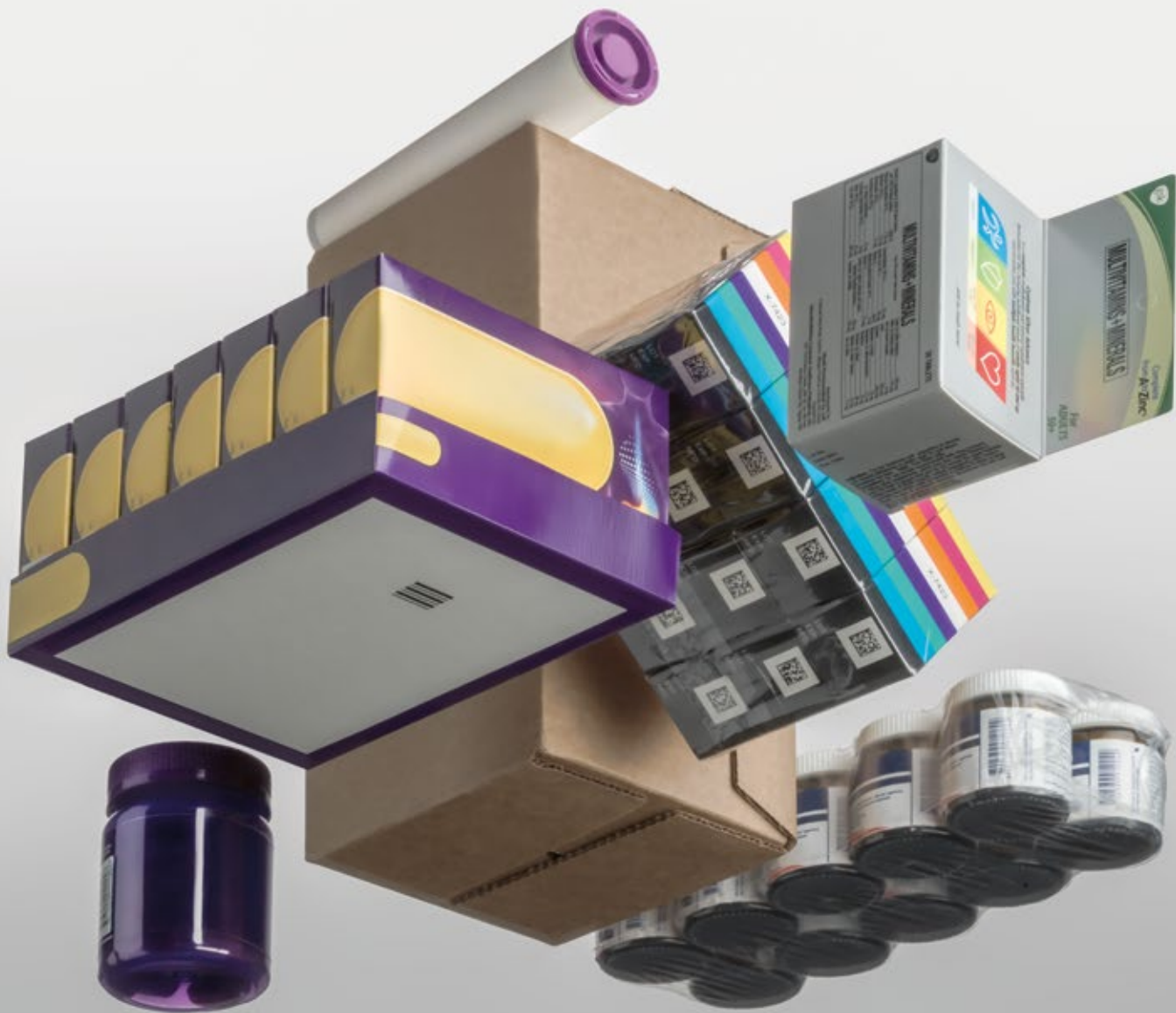
Cartons in standard or plastic-coated cardboard, both square and rectangular in shape, can be processed accurately on IMA Life labelling machines. High-speed processing and the ability to integrate special functions characterise the broad selection of IMA Life carton labelling solutions.



The **SENSITIVE AP400** Series is a compact, versatile, high-speed range of labelling machines available in several versions implementing a variety of special functions. Different configurations are possible and the machines fit up to three labelling heads for the application of a wide range of self-adhesive labels on carton tops or bottoms and tamper-evident seals on carton flaps. All printer types can be integrated as well as serialisation capabilities for Track & Trace purposes, and vision systems for data verification.

## Care, attention and understanding

Packaging not only plays a functional role in protecting, conserving and transporting the product. It also serves an informative purpose and frequently contains data to protect against counterfeiting, which is actually not seen by the consumer. IMA BFB offers the most comprehensive range of secondary packaging machines available on the market. Each solution is designed, developed, and built to deliver performance, flexibility and reliability. In partnership with IMA Labeling, we integrate advanced label application technologies to provide complete packaging lines. Expertise in specific areas and technologies are the backbone of an expert environment at the disposal of the nutraceutical sector. Flexibility, customised solutions and engineering capabilities, together with a highly professional worldwide service network, are the ingredients which help ensure customers gain a notable competitive advantage.



# END OF LINE

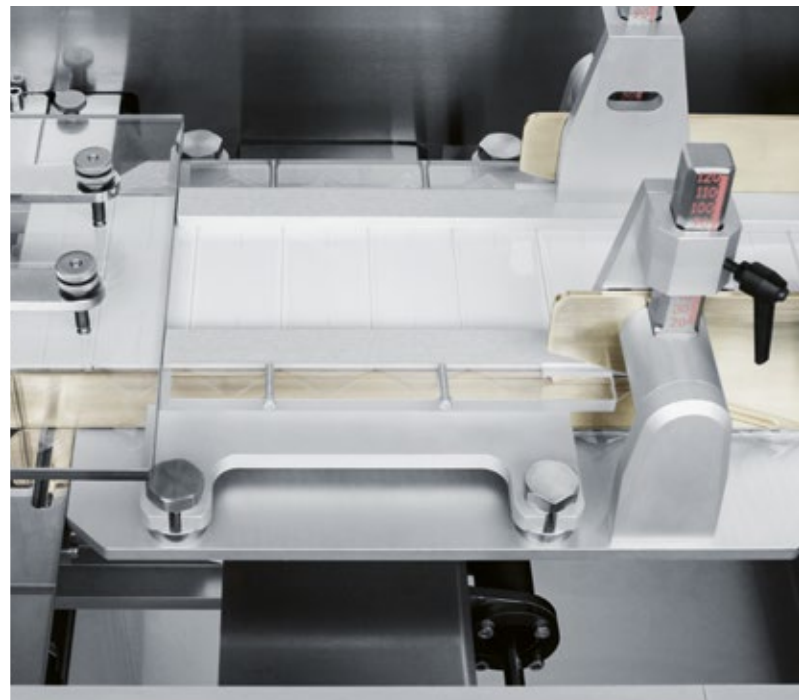
## Solutions

### Overwrapping

Focus on overwrapping processes at IMA BFB has led to the creation of specific film-unwinding, conveyor, cutting and sealing systems to ensure that the film is always cut with a geometrically precise fold and sealed without wrinkles, air bubbles or other blemishes. Our range of wrapping machines process any type of package, OPP film, paper, recyclable or compostable films, even for products with irregular shapes.



**AF60** is an efficient, high-speed overwrapping solution for cartons with a remarkably compact footprint. Featuring a stacking unit capable of stacking up to 225 layers per minute, it represents an ideal partner for any high-speed carton packaging line. Maximum accessibility to all components is possible due to the balcony-style design, for easy cleaning and maintenance.



Designed to maximise production efficiency, **HYWRAP20** is a high-speed overwrapping machine for single or bundled products, and a hybrid solution, capable of switching from film to paper without size changeover. Its compact footprint and cantilever structure allow for accessibility and ease of maintenance. Movements are electronically driven by their own specific brushless motor for accurate performance. Size changeover is fast and easy.

## Stretch banding and shrink wrapping

Sealing is essential to guarantee secure wrapping and contributes to preserving the integrity of a nutraceutical product. The fume-free cutting and sealing group of our stretch-banding and shrink-wrapping machines is ideal for processing polyethylene while avoiding burning or blemishes. IMA EOL offers a range of machines that can cover different speeds, with dedicated solutions for products whose shape tends to vary widely. Machines can be combined with a heat-shrink tunnel that is low on power consumption.



Designed to bundle bottles or cartoned bottles and shrink-wrap them with PE film, the **MS560** stretch-banding and shrink-wrapping machine ensures time-saving efficiency, ease of use and accurate product handling at speeds of up to 40 cycles/min thanks to servo-driven technology. top-quality execution. Ergonomic design enables maximum accessibility to facilitate cleaning procedures and maintenance.



The **MS260** stretch-banding and shrink-wrapping machine has been specifically designed to meet the requirements of a market where demand is increasing for extremely compact, easy-to-operate, high-speed machines. High-speed stacking, carton tilting and a shrink tunnel can be integrated into this high-performance unit.

# END OF LINE

## Solutions

### Case packing

All case-packing requirements are catered for by IMA BFB, from wrap-around to side or top-loading versions, all our models have a small footprint and provide easy operator access for cleaning or maintenance. Designed to ensure total control throughout all stages of the packaging process, our solutions include integrated case-packing and compact palletizing machines with extremely simple pallet management.

**CP18/28** side-loading case packers are suited to packaging individual or bundled cartons into pre-glued RSC cases. Both models are compact, accessible and enable simple, tool-free size changeover. Equipped with a horizontal case magazine for easy loading, the machine keeps the case erect during product insertion with the aid of suction cups fitted to the pick-up and forced opening arms. While CP18 is extremely compact, CP28 absorbs high incoming speeds thanks to the pre-stacking unit.



Flexibility, maximum efficiency, total access and total control make **CPH2** a new-generation, fully automatic, medium-speed side-loading case packer. Designed to handle a very wide range of products and materials, the machine has been built to maximise efficiency and ease of use.



Made to handle loose or bundled cartons, **CP38** is a high-speed, side-loading case packer with operator-friendly cantilever design ensuring accessibility and easy cleaning. Using servo technology for smooth product handling, the CP38 packs up to 30 cases per minute. During loading, the case is positively erected and held in position on 2 sides enabling effective use of lower-quality corrugated cardboard.



## Case packing



**CPV15/20** top-loading case packers are user-friendly and ideal for loose or bundled products. The infeed system is equipped with worm screws (for loose products) for correct container orientation, and a comb which moves sideways to collate the products. Equipped as standard, a 2-axis robot is featured to insert the collation into the case.



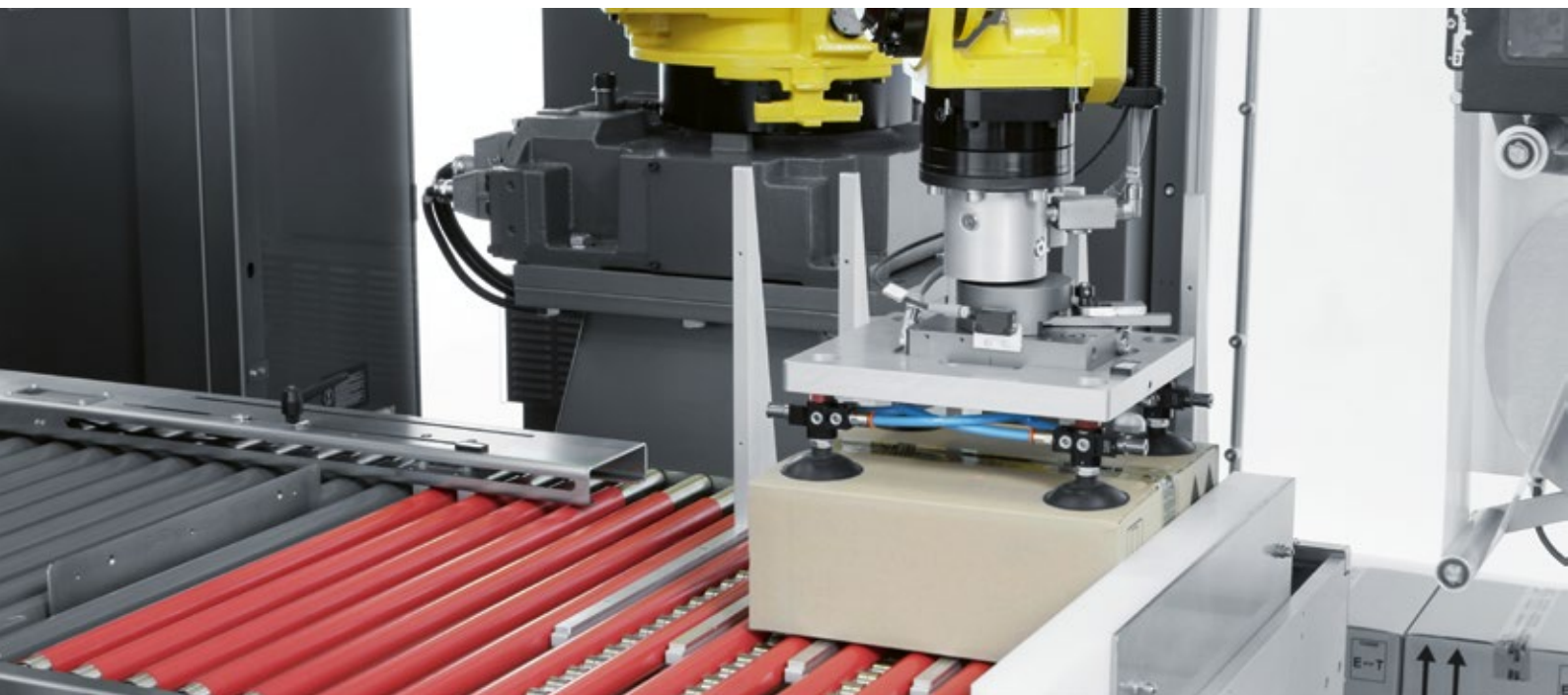
In fast-changing industries, manufacturers need production systems that adapt quickly to shifting trends, regulations and small-batch demands. At IMA BFB, we have developed highly flexible case packers capable of handling loose bottles, cartons, and trays on a single machine with one infeed system. This ensures faster changeovers, lower costs, and true operational agility.

Built to pack individual or bundled products into cases, display boxes or trays starting from flat blanks, the **MMP400** wraparound case packer features servo technology enabling speeds of up to 30 cases per minute and extremely smooth handling. A modular multi-packer concept, the machine has been designed to efficiently handle all shapes and sizes, even if they are unstable or critical for high speeds.



## Palletizing and depalletizing

Available in several versions ranging from basic applications, such as manual pallet loading, up to more sophisticated solutions with automatic feeding of empty pallets and unloading of full pallets, our palletizers have a solid structure and use precise, rapid, multi-axis, robotized systems for accurate product positioning on pallets. The range includes integrated case-packing and palletizing solutions in a compact structure and with extremely simple pallet management.



Built to deliver maximum productivity and efficiency, latest-generation, 6-axis robotic **RP2/RP4** palletizers offer exceptional flexibility and are conceived to be stand-alone or easily integrated with case packers thanks to their quick plug-in connection. Modular design allows for customisation of the palletizing section, whose dimensions are kept to a minimum.

Born as a stand-alone concept and thought to be easily integrated with TLS (Tray Loading System) handling systems for product manipulation, **RD** Series palletizers are compact, flexible and ensure high performance. They can handle the most unstable and irregularly shaped products with the utmost accuracy, taking care not to damage them. Robotic technology is at the heart of these systems and allows flexible product handling at the beginning, in the middle or at the end of the line.

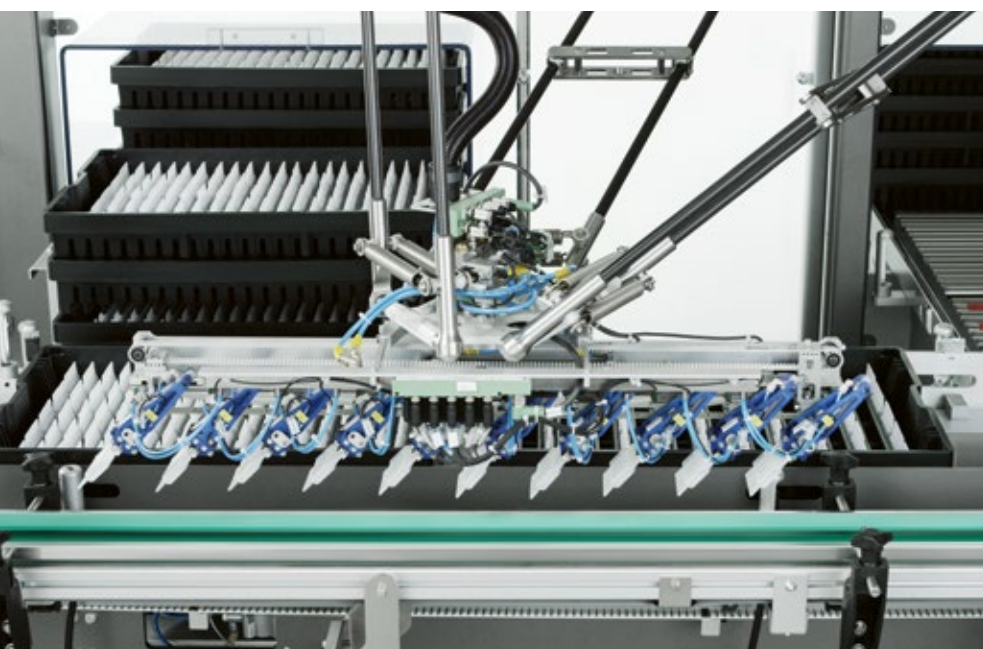


# END OF LINE

## Solutions

### Feeding and manipulation

IMA BFB specialises in robotic solutions designed to handle various containers, including bottles, caps, jars, and vials. Systems are optimised for tasks such as transferring containers to and from transport trays, acting as an accumulation buffer during line stoppages. Line feeding or product withdrawal from the line for storage or quarantine purposes are also possible, ensuring smooth operation even during interruptions. Additionally, these systems manage containers coming from upstream processes and place them on trays that are part of the final packaging process.



**TLS** is a robotic system for the loading and unloading of products to and from trays. Functionally flexible and versatile when it comes to layout and product handling, the machine manipulates strips and inhalers, in and out of trays. Ensuring excellent productivity rates, ideal for automatically operated processes, it relies on efficient robotics.



The **T-LOAD** manipulation robot is designed for the handling of packages, bundles, bottles and medical devices from a conveyor belt, depositing them into pre-formed trays. The system is highly flexible and can handle various materials such as plastic, polystyrene or cardboard trays, positioning them either above or below the products

## Label application solutions

IMA Labeling systems provide comprehensive solutions for the nutraceutical industry, addressing a wide range of specific needs. Solutions include print & apply or apply-alone labelling equipment for a wide range of package types, including cases, trays, flowpacks, doypacks, bags, jars, bottles, pallets, as well as any applications in logistics and e-commerce.



# IMA FOR THE NUTRACEUTICAL INDUSTRY

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