



**GENERAL
CATALOGUE**

**Extraordinary
solutions
for your
business**



**MARCHESINI
GROUP
PHARMA**





**Packaging
solutions
inspired by the
extraordinary**

Index

ABOUT MARCHESINI GROUP	4
THE GROUP DIVISION.....	6
DIGITAL	8
CUSTOMER CARE	10
RESEARCH AND DEVELOPMENT	12
TRAINING HUB.....	14
SUSTAINABILITY	16
LABORATORY.....	18
PROCESS	26
ASEPTIC.....	32
PRIMARY PACKAGING	42
SECONDARY PACKAGING.....	54
HANDLING & ROBOTIC MANIPULATION.....	68

A unique group

inspired by the extraordinary



Marchesini Group designs and builds customised machines and lines for the packaging of pharmaceuticals and cosmetics.

Founded in Pianoro (Bologna) by inspirational entrepreneur Massimo Marchesini, who built his first cartoner in a garage in 1974, Marchesini Group has grown over the years from a local to a multinational business. With a turnover of 490 million and a workforce of almost 3,000 at its Italian and foreign locations, Marchesini Group is a top player in the "Packaging Valley" of Italy's Emilia-Romagna region and a world leader in the automatic pharmaceuticals and cosmetics machinery sector.

The Group provides the international markets with outstanding service through 35 agencies, which combine with its 16 foreign subsidiaries to cover more than 116 countries worldwide. 87% of the Group's turnover is generated by exports, with key areas in Europe, China, the USA and Latin America.

Although Marchesini Group has extended its sales and after-sales networks abroad, its true strength is that all machines and systems are built in Italy, guaranteeing genuine Italian manufacturing quality.



A spark and the universe was born!
We like to think of when Massimo Marchesini had a moment of extraordinary inspiration that gave rise to our world, as a sort of Big Bang. Everything was there, ready and waiting. Especially that unique vision which distinguishes us and still guides us in our research.
If we have constantly grown to become the packaging industry leaders we are today, we owe it to our founder and everyone else who has so passionately engaged in this common project that constantly seeks to enhance people, ideas, technological innovation and the solutions we provide that continue to make the difference.

**AND IF WE ARE STILL MAKING
THE DIFFERENCE TODAY,
AS WE HAVE DONE IN THE PAST,
IT'S BECAUSE WE KEEP LOOKING
INTO THE FUTURE AND ARE
INSPIRED BY EVERYTHING
AROUND US THAT IS TRULY
EXTRAORDINARY.**



**MARCHESINI
GROUP**

INSPIRED BY THE EXTRAORDINARY

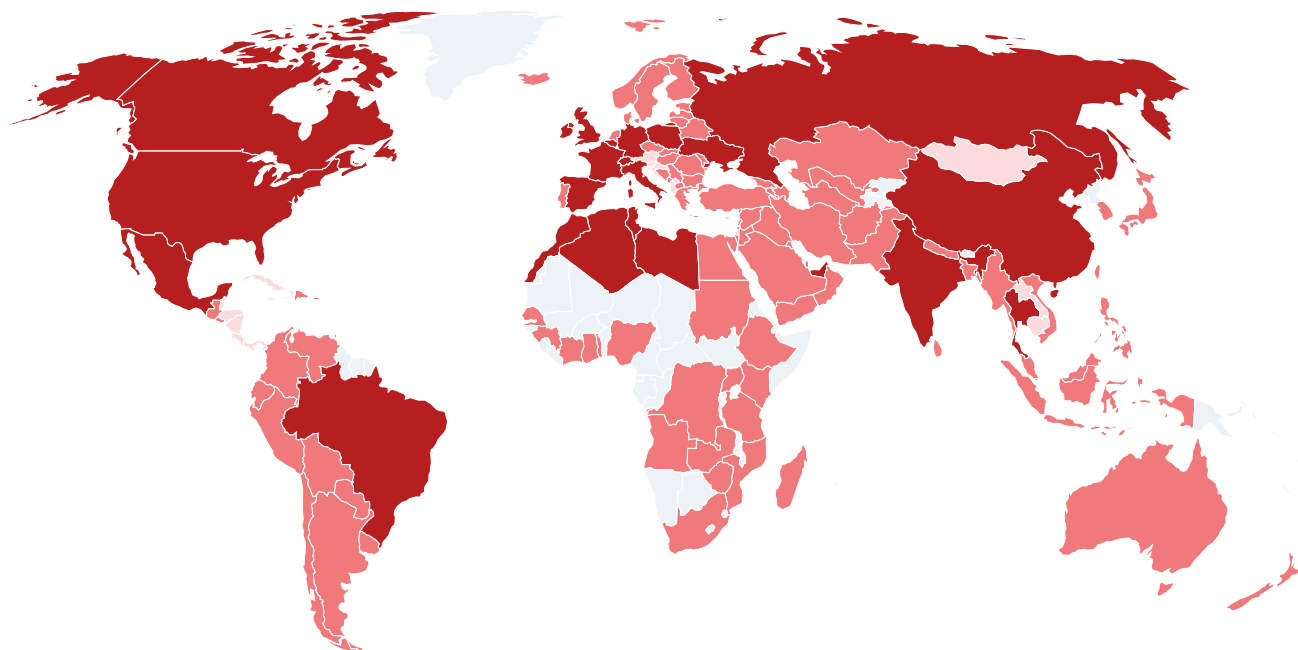


Marchesini Group has based all its production in Italy to guarantee high product quality and draw full benefit from local know-how.

With a view to supplying its customers with more and more complete, customisable lines, over the years the Group has acquired a number of highly specialised local businesses with complementary expertise. Marchesini Group has thus expanded its offering and knowledge while conserving the local identity, history and roots of each company concerned.

The headquarters at Pianoro (Bologna) coordinates design and facilitates the exchange of information during the various production phases, engaging with the different Group divisions that contribute to the construction of complete, state-of-the-art lines. Each of them specialises in specific products: for example, the **Blister & Farcon Division** (Carpi - Modena), Italy's largest thermoforming hub at 14 thousand square metres in area, produces single machines and lines for blisters, as well as deep-draw thermoforming machines. The **Corima Division** (Monteriggioni - Siena), on the other hand, produces the latest technologies to guarantee the total sterility of the production process, building machines which wash, sterilise, fill and label ampoules and syringes. The **Neri Division** (Barberino del Mugello - Florence) develops machines for applying self-adhesive labels to a wide range of products. The **Tonazzi-Vasquali Division** (Cerro Maggiore - Milan) produces solutions for filling tubes and jars and for counting pills, tablets and capsules, while the **Packservice Division** (Latina) builds automatic strip and end-of-line machines. Other Group member companies include: **CMP Phar.ma** (Costabissara - Vicenza) which produces inspection machines; **Schmucker** (Romans d'Isonzo - Gorizia), specialised in stickpack and sachet packaging machines; **M.A.R.**, a company in Lainate (Milan) specialised in the construction of machinery for packaging liquids and powders in glass and plastic bottles, syringes, carpules and other containers for the pharmaceutical industry; the **Dumek** (Pianoro - Bologna) and **Dott. Bonapace** (Cusano Milanino - Milan) brands, which produce processing solutions and laboratory machines respectively and, to conclude, **Rinova** (Pianoro - Bologna) which sells pre-owned Group machinery and reconditions customers' existing machines.

Marchesini Group has thus expanded its offering and knowledge while conserving the local identity, history and roots of each company concerned.



- WORLDWIDE BRANCHES
- WORLDWIDE AGENT
- AREA MANAGED FROM MG BRANCH/AGENCY



SCAN ME
to discover our
headquarters,
our production
plants and our
foreign offices

The group divisions



We are digital



MARCHESINI GROUP
DIGITAL

Marchesini Group has always invested in the use of new technologies to supply customers with more and more high-performance, innovative machines and lines. The aim is to generate value for customers through digital transformation and Industry 4.0 tools for the connection of devices, data and people. It is fundamental to deliver real, effective solutions to the various needs, standing out from the crowd and transforming every technological challenge into a new growth opportunity.

MORPHEUS: PREDICTIVE MAINTENANCE SOLUTION

This technology is a key tool for increasing productivity and ensuring full familiarity with and benefits from the machine purchased.

How does it work? Thanks to sensors installed on the machine (IoT network) that provide precise monitoring, and data collection and analysis tools using AI algorithms, customers can monitor their machines' "health" round the clock and plan maintenance in advance, forestalling possible failures.

AI

AN INTERACTIVE CUSTOMER PORTAL

The Group has developed an online portal with a set of services tailored to customers' needs, enabling real-time, dynamic information exchange. The services offered include:

- **Online digital documentation** for machines purchased;
- **Predictive Maintenance Dashboard** displaying the data acquired from connected machines;
- **Service Platform** to handle service requests directly with the Marchesini Group after-sales service;
- **Interactive parts manual** for faster, more efficient ordering of Marchesini Group genuine parts.

AUGMENTED REALITY APPLICATIONS

The Group has developed a variety of augmented reality solutions to assist customers in the transfer of information and know-how for the correct use of machines. This simple, user-friendly technology enables pharmaceutical companies to train their own technical staff quickly and effectively, reducing the risk of human error. In fact, everyone working on production lines can benefit from this technology with step-by-step guidance in the procedures to be performed.

AI AND NEW FRONTIERS

Marchesini Group invests in artificial intelligence solutions in order to optimise the performance of both the robotics and the vision systems (for inspection and object recognition) installed on the machine. We work to supply customers with machines that provide ever-increasing speeds and performance, by means of in-house Research and Development and partnerships with innovative start-ups.

We are partners



Marchesini Group collaborates with customers in every phase of manufacturing of their machines and lines, from design through to after-sales. Genuine support for customers means guaranteeing swift, efficient, complete service, both on-site and remotely, even after delivery and installation of the solutions supplied.

To achieve these aims, the Group provides the following services:

- **worldwide technical service**, delivered through teams of engineers based on the main markets and the support of about 400 engineers and specialists who travel the globe on a daily basis;
- **support in the drawing-up of maintenance plans**, with the aid of predictive maintenance technology; efficient, flexible management of all parts orders, with worldwide shipment;
- **consulting on the options for updating machines** in response to changes in products and sizes;
- **qualified staff ready to provide the right training** in the use of machines, transferring the skills needed to deal with the various scenarios.

The distinctive feature of all services is their flexibility, enabling customers to choose the solutions best tailored to their needs. As well as these in-the-field services, the Group has additional options for covering customers' requirements remotely, with step-by-step guidance in the resolution of any problems.

X-SERVICES

LIVE ASSISTANCE: a means for instantaneous, effective communication with the Group's skilled staff via a dedicated App or optional smart glasses, which can be set up on any smartphone or tablet with just a few clicks.

TELESERVICE: software installed on the machine that enables the Group's engineers, via a secure internet connection, to remotely analyse the machine's vital parameters and perform setup/reset procedures or prevent potential errors which may affect its operation.

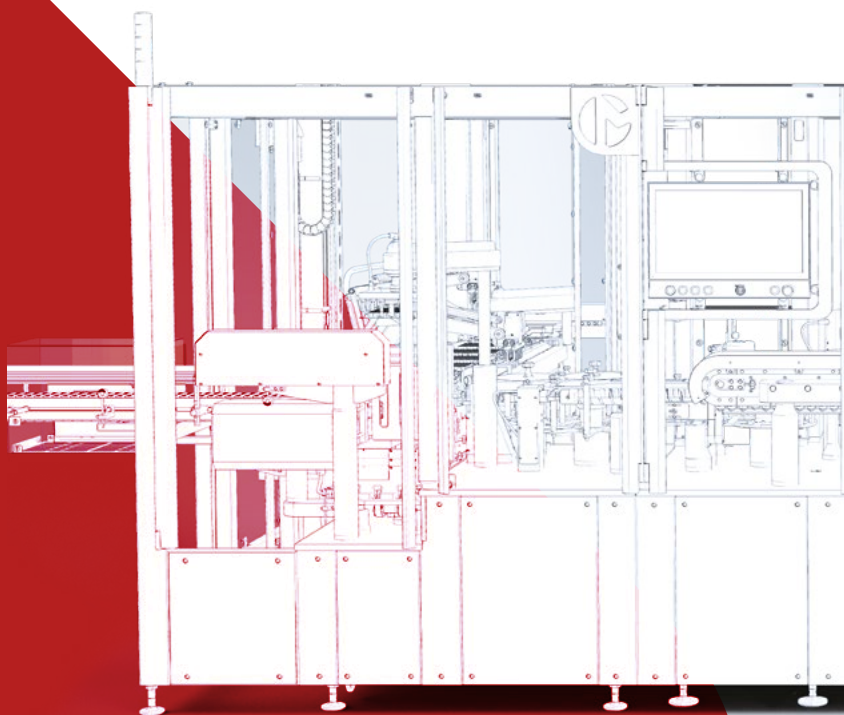
MIMO (Marchesini Inspection Monitoring): an easily installed turnkey system of cameras which stream what is happening inside the machine with high video quality of up to 100 FPS.



We are pioneers

To supply its customers with complete, bespoke lines, Marchesini Group has always invested in the Research and Development of new solutions following its own, original method. For the Group, innovating means thinking outside the box and having the courage to act on your ideas, never being satisfied with 'just' the technological standards in use on the market.

The approach adopted reaches beyond the resolution of single current problems: the vision is broader and more farsighted, aiming to anticipate customers' needs and trying to follow every possible path. Marchesini Group sets out to achieve full control and knowledge of all the technologies and know-how developed and provide the customer with a single contact able to deliver fast, flexible solutions. expanding database of experience, skills and professional knowledge, ready for transfer inside or outside the organisation, also on-demand via an online platform.



**INNOVATION:
A MATTER
OF METHOD,
NOT JUST
PRODUCT**

The Group operates on a dynamic, continually growing international market, impelling it to structure and grow its know-how through Research and Development expertise embracing more and more areas.

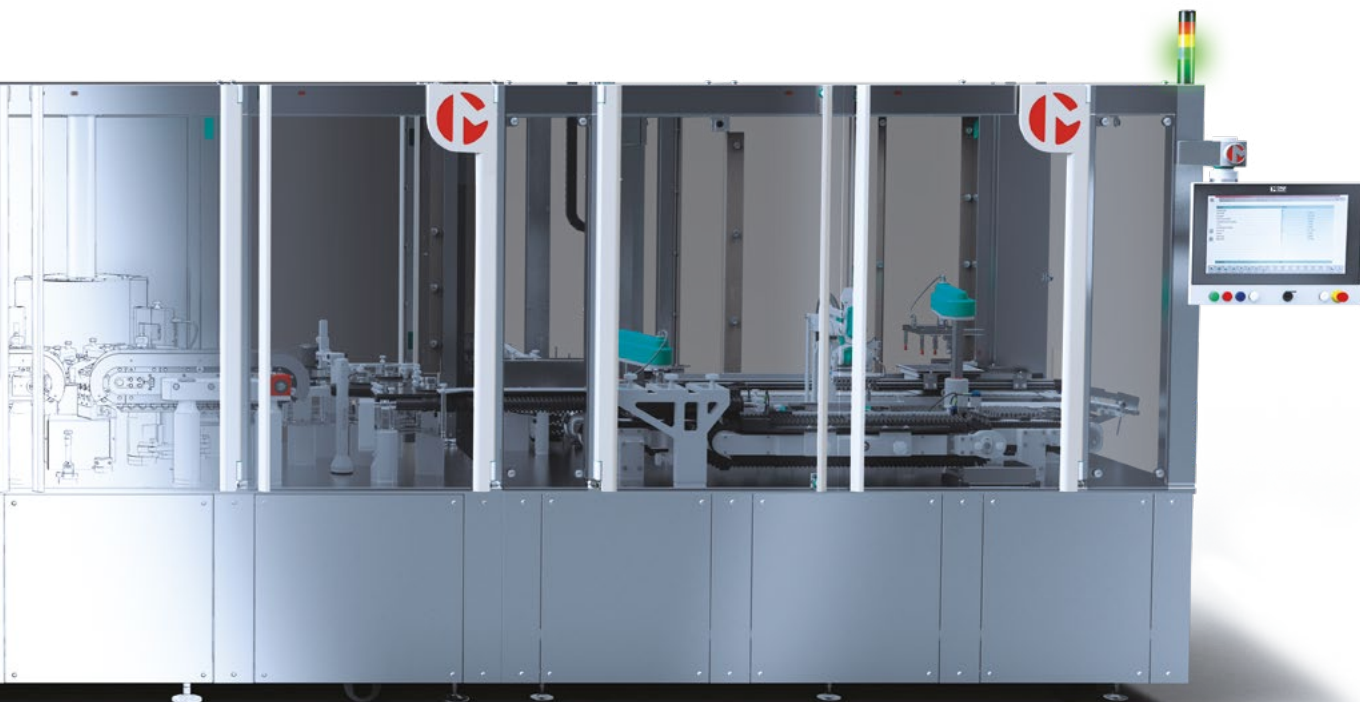
The machines of the future will be increasingly the result of a synergy between mechanical and electronic engineering, AI-based algorithms and data driven approaches, demanding an ever-more integrated design process that includes these new technologies, bearing in mind the needs of all the Group's divisions. The right approach to these new challenges is a method shared and consolidated over time, which embraces all these factors: experimentation of new technologies; appreciation of individuals' ideas; continual training to increase knowledge in various areas; dialogue with customers to listen to their needs; customisation of the solutions offered; recruitment of professionals able to contribute fresh expertise; and investments in innovative start-ups.

**THE
CHALLENGE
OF
SUSTAINABILITY**

Marchesini Group has always engaged in the Research and Development of new, eco-friendly solutions tailored to customers' requirements.

Market demand for more sustainable packaging has led over time to the creation of specialised teams able to dialogue with all supply chain actors and achieve the best possible result on the basis of the technologies available and the limits set by the current regulatory framework.

Automatic machinery manufacturers have to cooperate with packaging material producers to assess each product's machinability, while also working in synergy with customers and guiding them towards the best-performing solution. The Group is also committed to producing machines and lines more and more sustainable in energy and environmental terms, avoiding the wastage of energy, resources and raw material.



We are trainers



Training is one of the pillars on which Marchesini Group has based its success. Over the years it has established a variety of training programmes: well structured, high quality courses designed to cultivate talent and enable everyone to acquire new, more and more versatile, complementary skills.

With the creation of its new Training Hub, the Group has brought all its training projects together in a single structure, with the mission of providing staff, talented young people, business partners and customers with a purpose-built space offering the right response to their need to grow their knowledge and expertise. From in-house training courses to webinars on technology and the operation of production machines and lines, the Marchesini Group Hub, dedicated to training in all areas, will be able to meet all requirements and to deliver customised, bespoke training. The aim is to create a large, constantly expanding database of experience, skills and professional knowledge, ready for transfer inside or outside the organisation, also on-demand via an online platform.



**customised,
bespoke
training**



We are sustainable

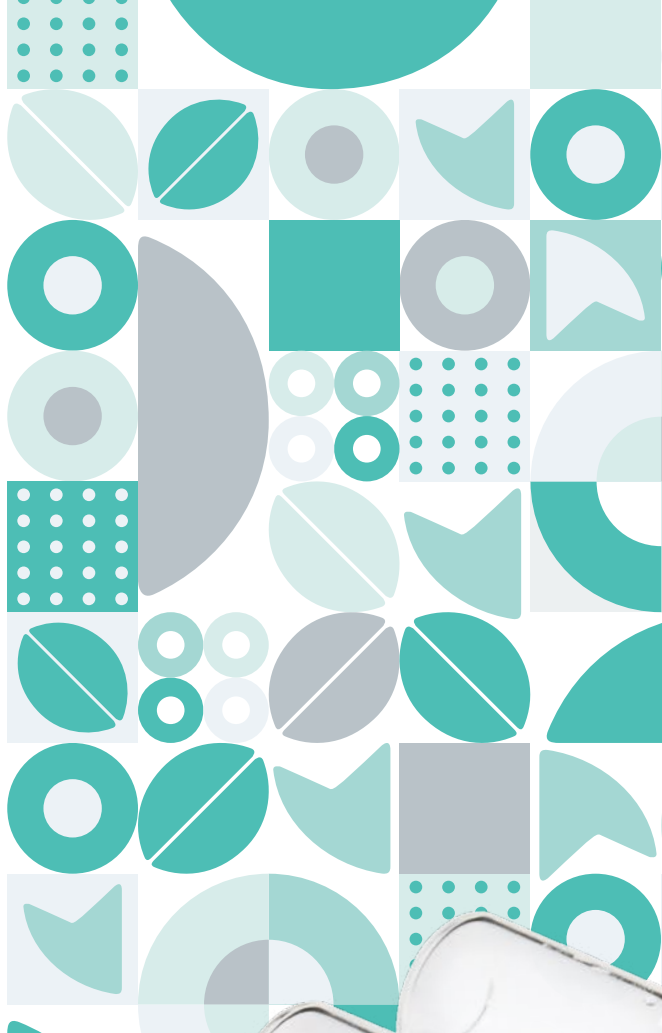
“be” is the Marchesini Group’s sustainability project. A genuine commitment involving innovative initiatives, actions and technologies to safeguard people and the environment. The Group believes that being sustainable means being willing to change, to reconsider the way we do things, approach places and use and regenerate natural resources.

Marchesini Group works to reduce its machines’ environmental impact by testing innovative recyclable mono-materials and/or increasing energy saving and the recyclability of components.

Conserving resources and avoiding waste also implies a commitment to promoting the use of eco-compatible, sustainable, environment-friendly packaging materials, in full compliance with current legislation. As a producer of automatic packaging machines, the Group is aware that it plays a key role in this challenge, and so it has created a specific team to research and develop new solutions, analysing and redesigning new prototypes with an eco-friendly approach.

The commitment to the environment, which also implies the adoption of systems to reduce pollution and responsible waste management, goes hand-in-hand with social and economic responsibility, embracing all the Group’s charitable and corporate welfare programmes which support its staff and the communities within which it operates.





MARCHESINI GROUP
SUSTAINABILITY





**A fundamental
aspect is to study
how to optimise
the production
processes**

MARCHESINI GROUP PHARMA

LABORATORY

The development of new products represents one of the most important phases for pharmaceutical companies and in this context the equipment available to laboratories and research centres is of particular importance. Another fundamental aspect is to study how to optimise the production processes.

Dott. Bonapace, which has been a part of the Marchesini Group since 2021, is a 70-year-old company that is a leader in the manufacturing of Research and Development laboratory machines and machines for the small-scale industrial production of consumables.

Thanks to its organisational and production structure, the Marchesini Group can now offer pharmaceutical companies and laboratories a complete range of machines that are specifically designed for the Research and Development area and for small-scale production.

OUR COMPANIES



CAPSULE

Featured Models **RK-15 - IN-PACK SE**



**...different
production
and testing...**

Thanks to the extensive expertise of Dott. Bonapace, a complete range of manual, automatic and semi-automatic machines is available to support the different production and testing needs, including a blister packaging machine for clinical trials or stability testing.

TABLET

Featured Model **CPR-18 SE**



**...on the specific
needs of the R&D
department...**

We are able to supply a full range of automatic rotary tablet presses for research and pilot-scale production based on the specific needs of the R&D department or laboratories.

SUPPOSITORIES & OVULES

Featured Models **BP-2** - **BP-3** - **CU-1**



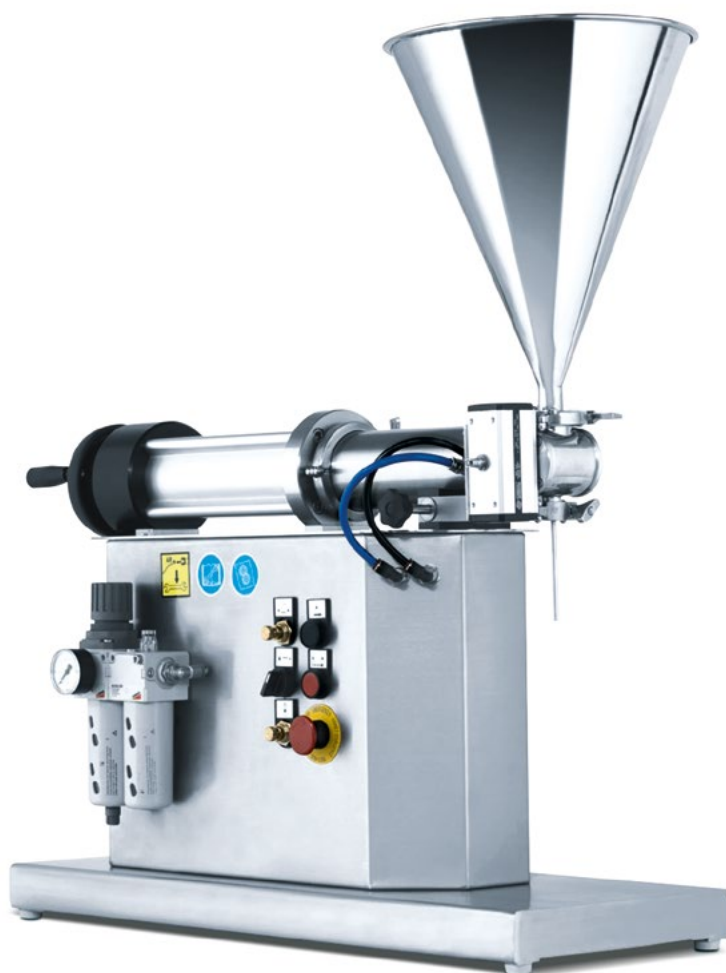
**...complete set
of individual
machine...**



A complete set of individual machines to manage and process suppositories and ovules at different dosing ranges.

LIQUIDS

Featured Model **FILLY**



**...automatic and
semi-automatic
machines...**

With regard to the liquid products category, different types of automatic and semi-automatic machines are available that are ideal for the filling of liquids and creams.

CREAMS

Featured Model **TURBO-MEK 5**



**...very
small-scale
productions...**

A vacuum turboemulsifier suitable for processing liquid and creamy products for laboratories, pilot plants and very small-scale productions.

INSPECTION

Featured Models **CMP1-E - iLT**



**...to ensure
a higher quality
standard...**

The CMP Phar.ma portfolio also includes bench-top quality control instruments. This bench-top equipment can check the visual quality and perform leak tests on different types of products such as ampoules, vials, syringes, carpules filled with liquid, lyophilised or powdered products. These solutions are suitable both for companies that have small production batches and for those that already have automatic checking but want to carry out additional testing in order to ensure a higher quality standard for their products.



**Processing
machines
for different
types of
products**

MARCHESINI GROUP PHARMA

PROCESS

Completing the range of production machines for the pharmaceutical industry, the Group companies Dumek and Dott. Bonapace allow Marchesini Group to supply processing machines for different types of products such as solids, capsules, tablets and creamy products.

OUR COMPANIES



TABLET

Featured Model **CPR-22 Double Layer**



**...for small to
medium size
production batches...**

A series of tablet press machines designed for small to medium size production batches, also with high containment systems.

SOLIDS

Featured Model **IN-CAP SE**



**...also available
with containment
systems...**

Different models of automatic capsule filling machines (also available with containment systems) to process powders, pellets, tablets and semi-solid products.

CREAMS

Featured Model **PHARMA-MEK 1000**



**...a wide range of machines
for processing liquid
and creamy products...**

A complete set of individual machines to manage and process suppositories and ovules at different dosing ranges.

With over 40 years of success, Dumek, which has been part of the Marchesini Group since 2017, produces a wide range of machines for processing liquid and creamy products, especially emulsions (creams and milks), serums, oils and gels. All melters and vacuum turboemulsifiers are specially designed for the pharmaceutical industry.





**New solutions aimed
at improving
efficiency and safety
in the production**

MARCHESINI GROUP PHARMA

ASEPTIC

With the synergy between the CORIMA Division and CMP Phar.ma, the Marchesini Group is able to offer complete lines for injectable products in pre-filled syringes, vials and ampoules, from the washing process of the primary container to filling, inspection and secondary packaging down to palletising.

The Marchesini Group combines the proven experience of CORIMA and CMP into the manufacturing of machines for injectable products and highly technological inspection machines that incorporate the Group's advanced technological robotic solutions.

This winning combination translates into the development of new solutions aimed at improving efficiency and safety in the aseptic drugs production, using the most innovative technologies.

OUR COMPANIES



DEBAGGING & DELIDDING "RTU" CONTAINERS

Featured Model **FREETUB**



**...robotic arm
specifically
designed...**

Complete range of Manual units and Automatic machines for removal of Tub's external bag (debagging), lid and liner (delidding), gently and accurately done by a robotic arm specifically designed.

WASHING & STERILIZING BULK CONTAINER

Featured Model **WR24**

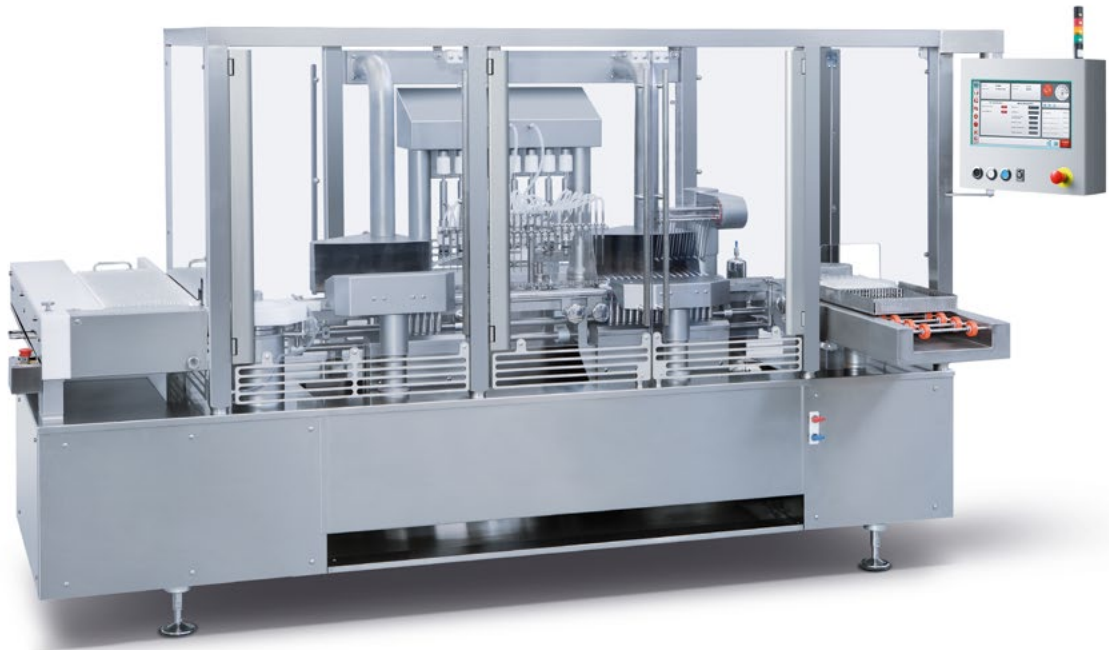


**...to suit the needs
of the individual
customers...**

Marchesini Group washing machines ensure perfect washing and drying, both internally and externally, of ampoules, vials and cartridges. The washing system upstream of the filling line can be configured to suit the needs of individual customers and can be equipped with an ultrasonic pre-washing system. Downstream of the line, decontamination of the external surface of ampoules or vials can be carried out to remove any traces of liquid or powder products.

FILLING & SEALING

Featured Model **RFS 24**



**...synonymous
with reliability and
outstanding quality...**

Filling and sealing machines for open or closed ampoules which can produce between 6,000 and 24,000 pieces per hour, guaranteeing perfect repeatability of filling and sealing operations coupled with perfect sterility of the final product.

Thanks to straightforward size changeover, a dosing system which can be sterilised in place, and the optimum performance of the laminar flow system which can be easily integrated, these machines have always been synonymous with reliability and outstanding quality. Also available in combi versions for vial filling and capping.

CAPPING

Featured Model **CAPSY-LC**

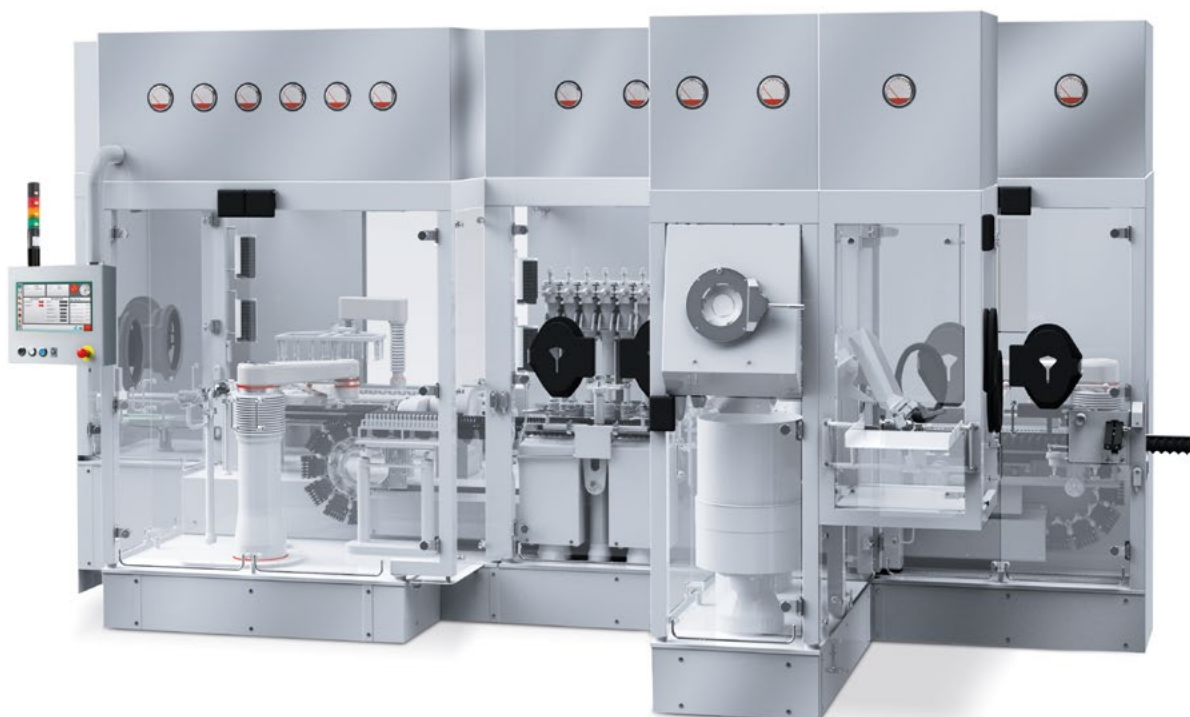


**...suitable for
sealing Vials for Small
Volume Parenteral...**

Alu-capping machines for liquid or lyo products, suitable for sealing Vials for Small Volume Parenteral (SVP) in aseptic condition.

FILLING & STOPPERING

Featured Model **EXTRAFILL 10A**



...high level of flexibility...

Wide range of machines for filling and stoppering of nested single-use syringes, characterised by compact and versatile design. All the main operations – from Tub opening to the outfeed of filled syringes – are managed by brushless motors and SCARA robots designed entirely in-house by Marchesini Group. Filling speeds of up to 600 pieces per minute, and possibility to carry out in-line 100% weight checking. These technologies also offer a high level of flexibility that also enables them to work with RTU (Ready To Use) cartridges and vials supplied in Nests/Tubs or, just in case of vials, in larger Nested-Trays.

CONTAINMENT BY RABS OR ISOLATOR

Featured Model **SA12J**



**...designed
and manufactured
in-house...**

Marchesini Group can offer a wide range of containment solutions, as Open RABS, Closed RABS and Isolators entirely designed and manufactured in-house.

The isolators can be arranged for protecting the sterility of the filled product and the operator safety, especially for those lines destined to the production of biological or toxic and potent drugs, for which Wash-In-Place and Hydrogen Peroxide Decontamination Systems can be integrated.

INSPECTION

Featured Model **SA12J**



...different kinds of inspections...

With the leading expertise of CMP Phar.ma, which is now part of the Marchesini Group, we can offer a complete range of semi-automatic or automatic inspection machines that cover a wide variety of production volumes.

Designed to handle a wide range of products such as ampoules, vials and cartridges, these machines can be configured for the inspection of liquids, lyophilised products or both. Based on the type of product, the inspection process involves the performing of all different kinds of inspections, such as extraneous reflecting and non-reflecting particles, correct filling level, cosmetic tin/cup control.

LEAK TEST

Featured Model **LT-S**



**...several of the
top models on the
leak test market...**

Characterised by modern, compact design which allows them to be incorporated into any production context, this family of machines includes several of the top models on the leak test market. Every container is checked by 4 inspection units with personalised electrodes that use HVLD technology for a complete inspection of handled products. The machine models have an inspection range from up to 100 pieces per minute, to others that can inspect up to 450 pieces per minute.



**Protection
and safety
are two
essential
aspects**

MARCHESINI GROUP PHARMA

PRIMARY PACKAGING

The primary packaging is the packaging that directly contains or encloses the products, coming into close contact with them. In fact, it is the last line of defence between the contents and the outside world.

For this reason, protection and safety are two essential aspects that must be taken into great consideration when choosing the optimal production solutions.

For over forty years, the Marchesini Group has been designing, developing and building innovative machines for the primary packaging of products for the pharmaceutical industry.

Patented technologies and customised solutions based on the customer's needs are at the heart of Marchesini's range, which covers the processing needs of any kind of product, such as solids, liquids, powders, creams and gels.

In our product portfolio, we have a technologically advanced solution for every type of product.

OUR COMPANIES



BLISTER&FARCON
MARCHESINI GROUP



MARCHESINI
GROUP



PACKSERVICE
MARCHESINI GROUP



SCHMUCKER
MARCHESINI GROUP



TONAZZI VASQUALI
MARCHESINI GROUP

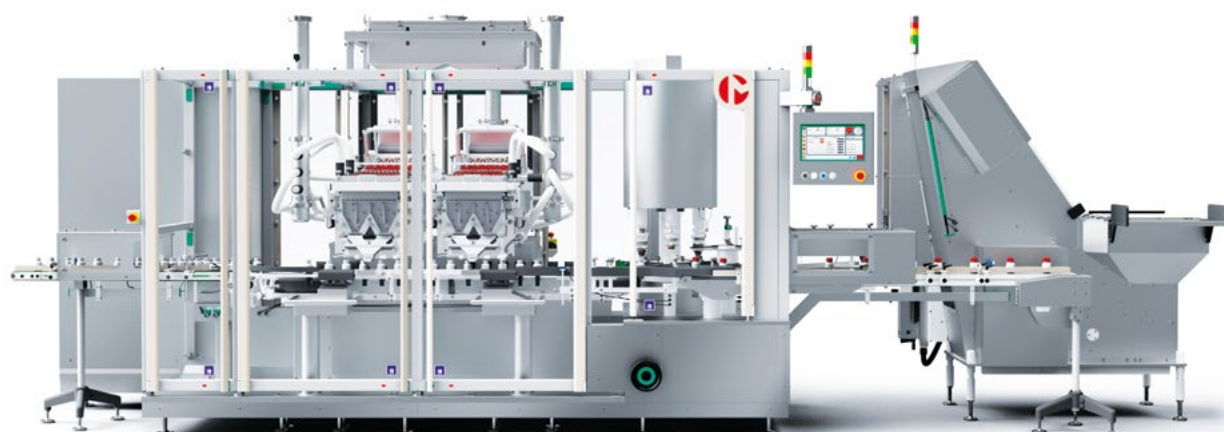


MARCHESINI
GROUP
PACKAGING

Oral solid dose

TABLET COUNTING

Featured Model **COMPACT 24**



...newer counting technologies allowing higher bottle output rates...

The Tonazzi-Vasquali Division based in Milan provides innovative machines that offer a wide range of counting solutions able to meet all possible requests.

There are two main counting technologies suitable for filling bottles, dispensers or other containers with a numerically pre-established quantity of solid products (tablets, capsules): mechanical counting and electronic counting.

Marchesini can offer a suitable solution for all needs, with newer counting technologies allowing higher bottle output rates.

Control of the flooding gate allows for a more consistent product flow on the vibrating plates. This allows for full product flooding no matter how full the hopper is, with more sensitive product drop sensors.

Changeable funnel nozzles depending on product count and size.

2D and 3D camera control to identify shape, size and colour of the products but also to check the thickness of the products in transit.

Oral solid dose **BLISTER**

Featured Model **INTEGRA 320**



...disruptive technological solutions...

The Marchesini Group has always been proud of its ability to develop disruptive technological solutions that optimise production performance. We care about our customers, and their satisfaction becomes our priority: that's why we offer infinite customised solutions and numerous machine combinations. Our Blister & Farcon Division in Carpi has a large and diversified portfolio of blistering machines that are able to meet any production need, for both low and high production volumes. INTEGRA and MB are the two lines for blister processing.

Oral solid dose **STRIP**

Featured Model **MST300**



...designed for the in-line connection to a cartooning machine...

An automatic machine for the packing of pills, coated or uncoated tablets, capsules, into 4 side seal strip packs.

With its horizontal flow it is specifically designed for the in-line connection to a cartooning machine. It is suitable for aluminum-aluminum foil, aluminum-plastic combined film or plastic-plastic foil hot sealing.

Oral solid dose

RIGID TUBES

Featured Model **MT1000**



...innovative robotised loading system...

Through the extensive experience of the Packservice Division, the Marchesini Group has developed tube filling machines for effervescent tablets based on an innovative robotised loading system, which smoothly handles the individual tablets and avoids any stress during the insertion phase. Extremely compact and ergonomic tube feeding, synchro-dynamic tube and single tablet transport system. Introduction into rigid tubes by means of a positive Pick & Place robotised system.

Oral solid dose **UNDER CONTAINMENT**

Featured Model **INTEGRA 320 UNDER CONTAINMENT**



... the highest level of safety and full machine usability...

Workplace health and safety has become an aspect of primary importance for all companies in the pharmaceutical industry.

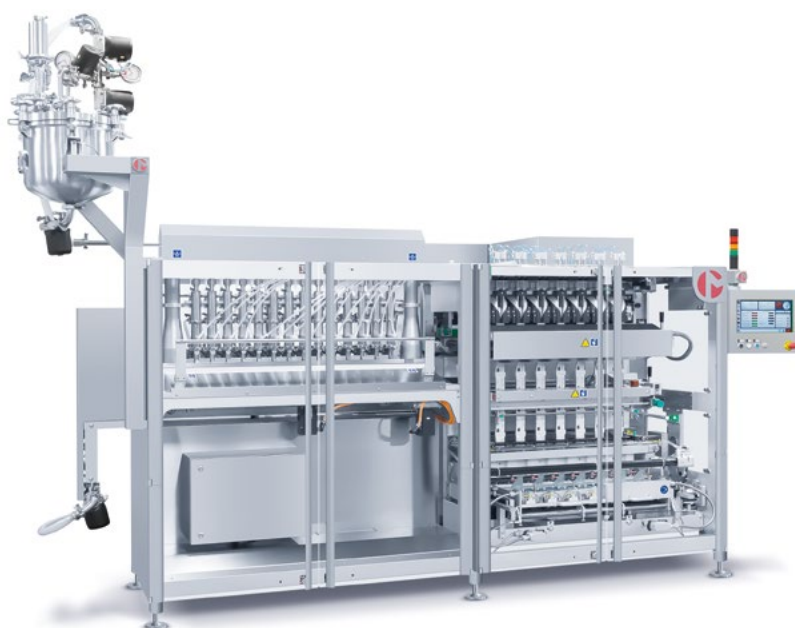
Now it is therefore essential to ensure that the production facilities meet the regulatory requirements and to protect the health of the operators in the concerned departments by safeguarding the work environment as much as possible.

When it comes to preparing and handling solid products, one of the critical issues that must be managed concerns the creation of powders that could spread within the production environment, and thus create dangerous situations.

Marchesini has designed containment solutions that maintain the performance of the most sophisticated machines, combining them with the highest level of safety and full machine usability. Everything is designed to not only meet all the safety standards, but also to simplify the movements of those who have to operate and work on the machine, making the operation and maintenance activities more user friendly.

Liquid filling & capping **STICKPACK**

Featured Model **MT1500**



**...suitable for
different kind
of products...**

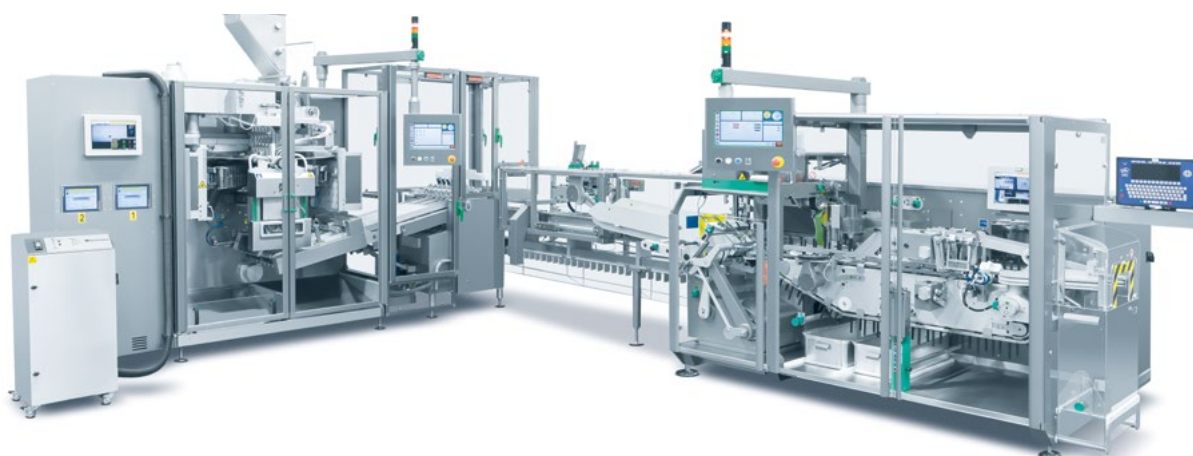
The design, development and production of stickpack machines is carried out by Schmucker, a Marchesini Group subsidiary with a vast amount of experience in creating this particular type of machine on a European level.

Stickpacks are cylindrical shaped single-dose pouches: they require 10% - 40% less packaging material than equivalent rectangular or square pouches and are suitable for different kinds of products such as powders, liquids and gels.

Liquid filling & capping

SACHET

Featured Models **MS235 + MA80**



**...easy cleaning,
maximum efficiency,
excellent reliability...**

The Marchesini Group designs and produces vertical sachet filling and sealing machines with continuous or intermittent motion that can reach medium and high production output rates. Designed to provide key features such as easy cleaning, maximum efficiency, excellent reliability, extreme accessibility, these machines are specifically designed for the pharmaceutical market.

The balcony structure, the design of the components and the use of stainless steel allows the machine to comply with GMP regulations. All parts that come into contact with the product are made of stainless steel or other FDA-approved materials.

All machines can be linked to a cartoning machine in order to obtain any type of layout based on the needs of the system.

Liquid filling & capping **BOTTLE**

Featured Model **ML636**



...different dosing systems...

The Marchesini Group can offer a wide range of machines for the filling and capping of liquid products intended for the pharmaceutical market, designed for medium and high production speeds.

Different dosing systems, rotary piston syringes or peristaltic pumps, mass flow meters or pneumatic pinch valves are available to meet any market need.

With regard to capping systems, different solutions are available (press-on caps, screw caps with dip tube etc.) based on the customer's product.

Creams

SQUEEZABLE TUBES

Featured Model **MILLENIUM 200**



**...advanced
technologies designed
entirely in-house...**

For the filling of creamy products, the Marchesini Group offers a comprehensive range of solutions which are particularly appreciated for their compact design and efficiency in evenly and perfectly distributing the product inside the container.

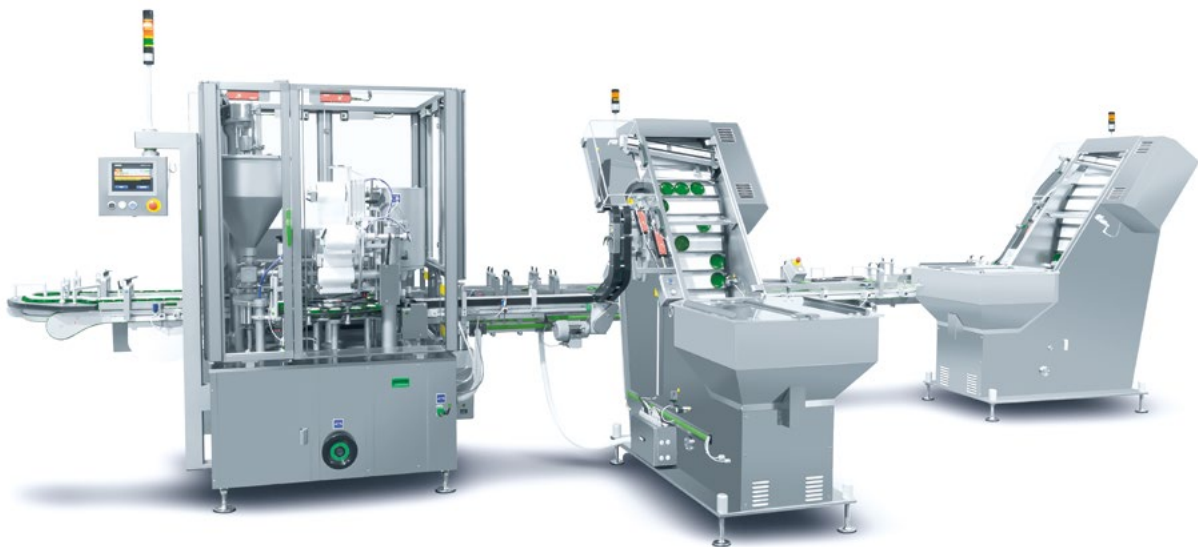
The use of advanced technologies designed entirely in-house means that the machinery can have built-in robotic handling units equipped with vision systems - which guide the pick-up head and correctly position every single product - and fail-proof

Pick & Place systems to manage product rejections.

Creams

JAR

Featured Model **MV545**



**...highest
technological
standards...**

Intermittent-motion automatic rotary machine for the filling and capping of jars.
Built in accordance with the pharmaceutical industry's severe requirements.
Designed using the highest technological standards, it can handle creamy or gel products
in glass or plastic containers.



**Our heritage
is based
on this area**

MARCHESINI GROUP PHARMA

SECONDARY PACKAGING

Our heritage is based on this area of industrial packaging – the Marchesini Group was established over 40 years ago with the creation of a cartoning machine.

We now provide solutions to handle, stack and pack every kind of product into cartons: ampoules, blisters, bottles, bottlepacks, flowpacks, sachets, syringes, stickpacks, strips, rigid or squeezable tubes, vials and all the other most common formats can be easily and efficiently processed.

The Marchesini Group is also a leading company in customising and designing new solutions to handle special formats, such as inhalers, special syringes and self-injecting devices.

OUR COMPANIES



ASSEMBLING & LABELLING

Featured Model **COMBI-3BS**



**...robust, reliable
and flexible in terms
of line layout...**

Technologies for the assembly and labelling of syringes include a wide range of solutions for the handling of glass and plastic syringes, including plunger insertion, labelling of the syringe body, assembly of the backstop, insertion of safety devices and, if required, the labelling of the safety devices themselves. Robust, reliable and flexible in terms of line layout, these machines are set up for traditional in-line connection with the conveyors of the NTS and NAS series, and with “No Glass to Glass Contact” versions.

CONTAINER LABELLING

Featured Model **RL-F800**



**...set up for
the integration of
robotic systems...**

These solutions include machines with one or two labelling heads for the application and verification of self-adhesive labels onto different size and shape bottles, ampoules and vials made of glass, plastic or metal. In addition to their superb flexibility, they are set up for the integration of robotic systems and feature on-board self-learning systems and label data memorisation. Upon request, the machines can be equipped with a high-capacity magazine for feeding the outserts and set up for Track & Trace.

PAPER TRAY FORMING

Featured Model **PAPER TRAY LINE**



**...we're fully
committed to increasing
sustainability...**

Paperboard is a recyclable material that can be used for any kind of pharmaceutical or non-pharmaceutical product like syringes, vials, auto-injector pens, inhalers, bottles, tubes and any other product which needs to be packaged in a tray.

The Marchesini Group has always believed in looking towards the future, and even if this is a new field for many competitors, we have been researching and developing paperboard tray solutions for over 10 years.

The new packaging material sector is growing rapidly, and we're fully committed to increasing sustainability and reducing the use of non eco-friendly materials such as plastic. A complete range of ROBOTIC ISLANDS expressly designed for this kind of solution is available to satisfy any need.

THERMOFORMING

Featured Model **FB220**



...on-board robotics ensure excellent performance...

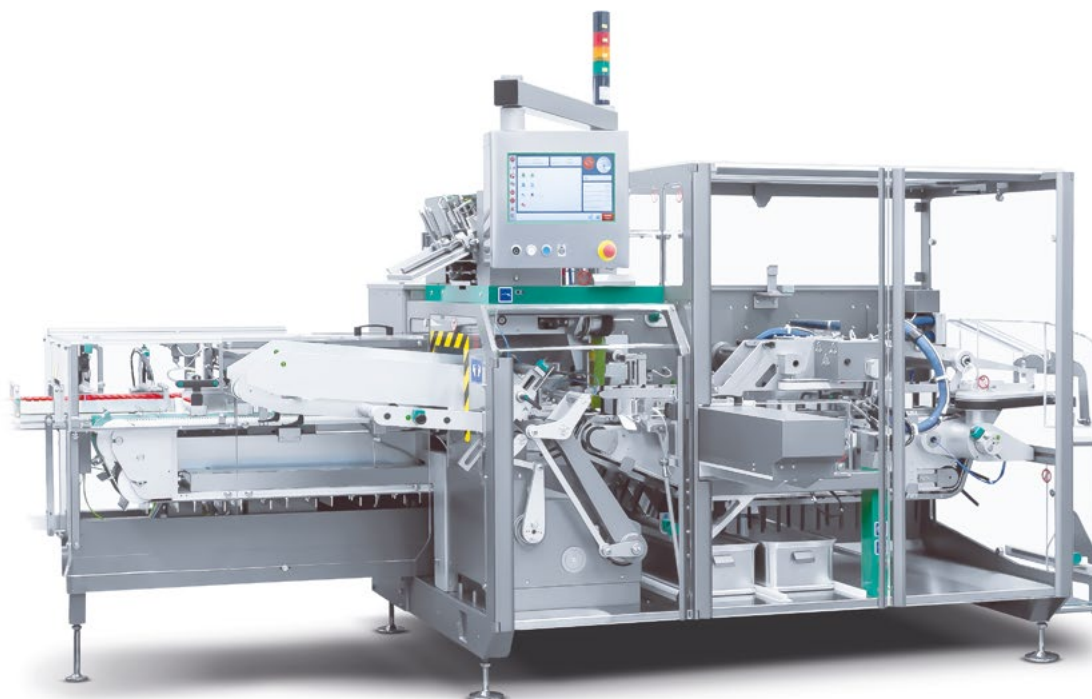
Thanks to the experience of the Marchesini Group's Farcon Division as a leader, deep draw tray-forming is performed on lines designed to package a wide variety of products – including ampoules, syringes, vials and needles – and medical devices in pharmaceutical production environments with medium-high output.

On-board robotics ensure excellent performance in terms of product infeed, gentle handling of fragile products of any shape, size or direction, and rapid size changeovers, as well as the complete safeguarding of the final packages.

Available options include the infeed of different products in the same bucket and "green" versions.

CARTONING (Intermittent Motion)

Featured Model **MA80**



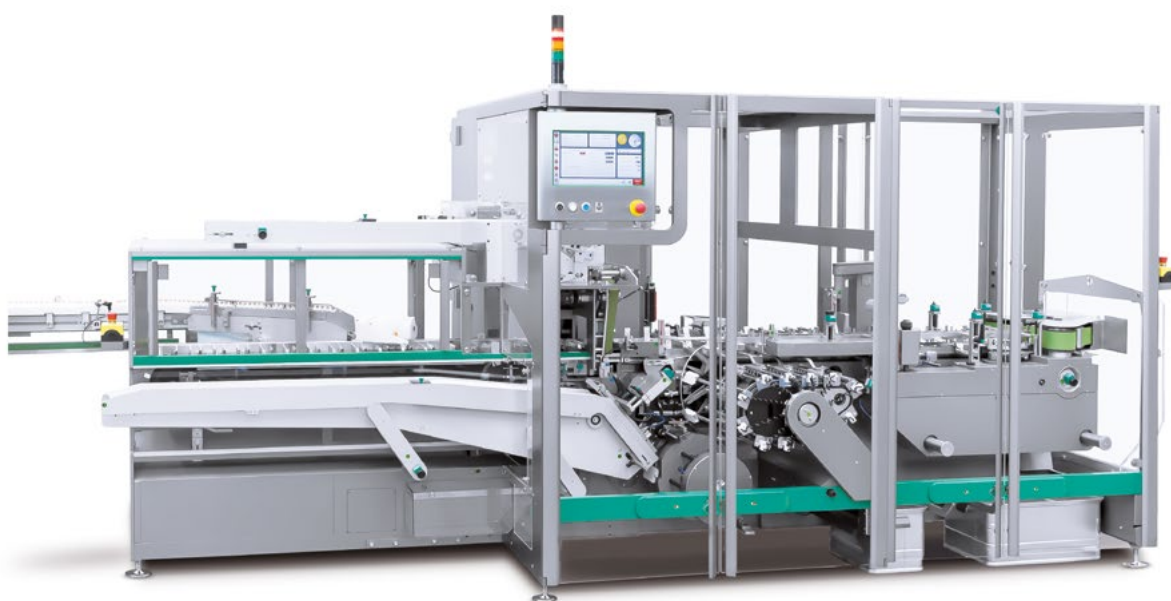
**...to meet even
the most complex
packaging needs...**

The Marchesini Group was founded with the creation of a cartoning machine. After meeting the demands of the global market with machines that went on to become great packaging classics, the Marchesini Group later restyled many historical models – which now feature a wide selection of printing and Pick & Place robotic systems – expanding its ever-evolving range of new cartoning machines.

The Marchesini intermittent-motion cartoning machines embody all our expertise to meet even the most complex packaging needs.

CARTONING (Continuous Motion)

Featured Model **MA400**



**...efficiency and
precision with high
mechanical speed...**

Designed to handle large production volumes, the Marchesini continuous-motion cartoning machines combine flexibility, efficiency and precision with high mechanical speed. Thanks to quick-fit connections to different types of automatic product feed units, such as robotised picking devices, these cartoning machines provide innovative solutions to handle, stack and gently insert the products into cartons in a highly precise manner. Capable of handling any pharmaceutical product, continuous-motion cartoning machines push the best technical features of our intermittent cartoning machines to higher speeds.

WRAPPING

Featured Model **FARPLUS**



**...the ability
to wrap products
of any type...**

Marchesini Group over wrappers are characterized by the ability to wrap products of any type and by the variety and excellent quality of closure methods: from standard closure for individual and bundled products of all shapes and sizes, to dot-seal closure and tear-tape for easy opening. The product is positioned in a single or double lane infeed conveyor and is moved to the hopper by the Robocombi and pushed towards the film wrap. The film is then wrapped around the carton in a "U" position and carried to the sealing station with a comb-like movement.

CASEPACKING

Featured Model **MC820**



...their extreme versatility allows on-board integration...

The Marchesini Group's extensive family of case packers include automatic and semi-automatic machines that perfectly close the cartons with glue or adhesive tape. Their extreme versatility allows on-board integration of numerous applications including labelling machines, scales for measuring carton weight, and vision and serialisation systems. "All in one" solutions are also available for serialisation, tamper evident and aggregation systems.

We also have depackers in our portfolio to satisfy all different needs.

DEPACKING

Featured Model **D7**

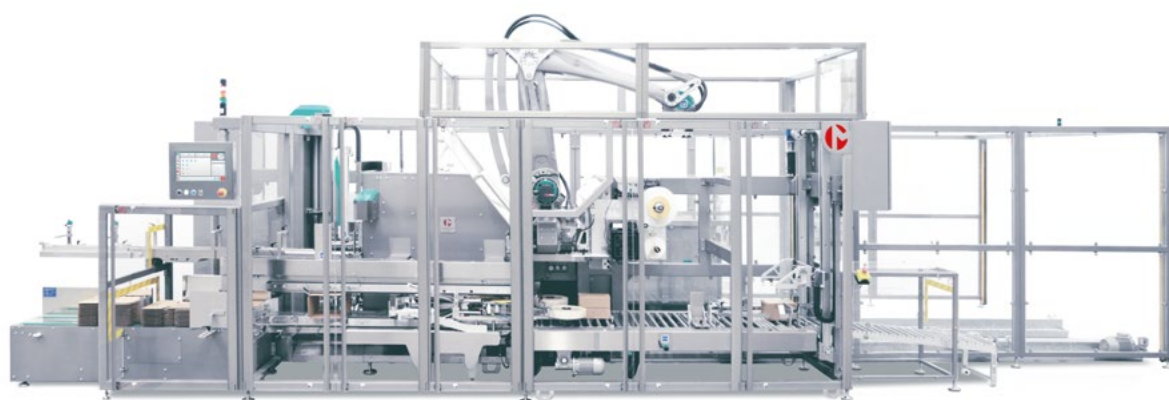


**...in addition to
the family of
the case packer...**

In addition to the family of the case packers, Marchesini also designs and produces a dedicated range of depackers to satisfy all different needs.

CASEPACKING & PALETIZING

Featured Model **MCP840**

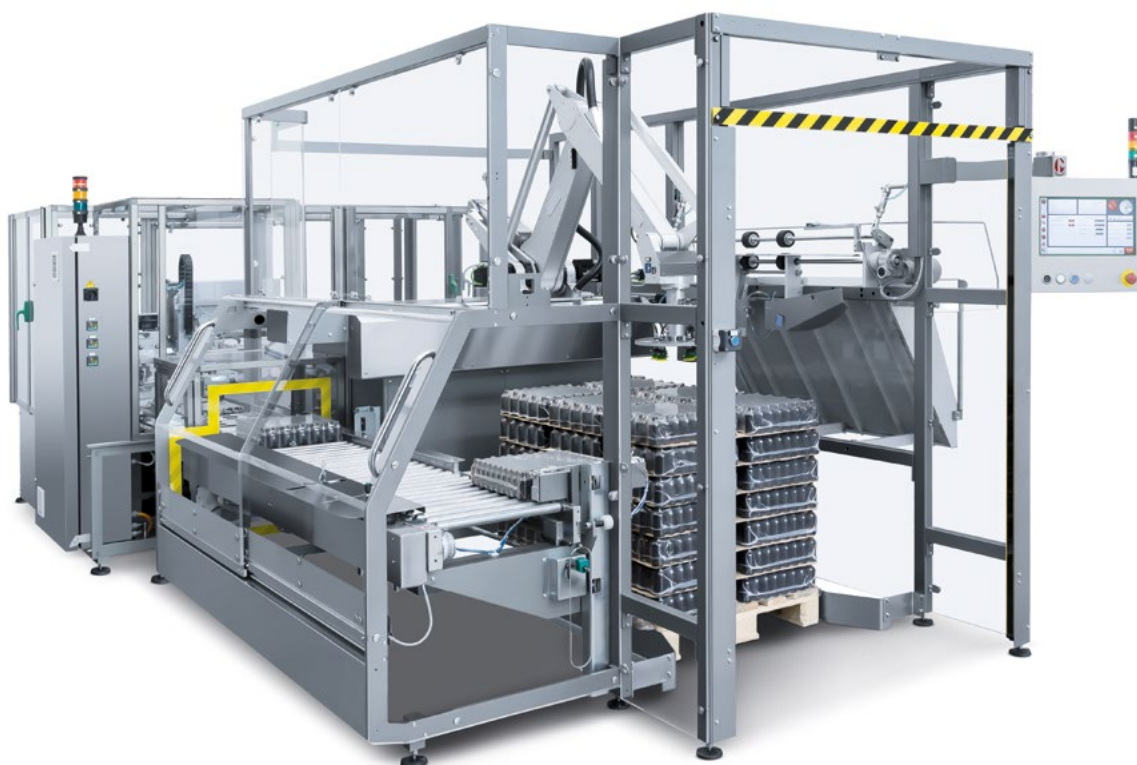


**...compact,
ergonomic, reliable
and sturdy...**

Marchesini Group Automatic horizontal Casepacker-Palletizer combining in a single, compact monobloc the operations of packing products in cases then palletizing them. Compact, ergonomic, reliable and sturdy, it is innovative and versatile thanks to the use of robotised solutions which significantly enhance performances in terms of speed and flexibility. All operations are fully automated, performed by brushless motors. The Gigacombi robot, entirely designed and built by the Marchesini R&D department, is a high performance, extremely versatile device. It allows the use of two palletizing/depalletizing stations at the same time. While one station is operating, the pallet can be changed in the other.

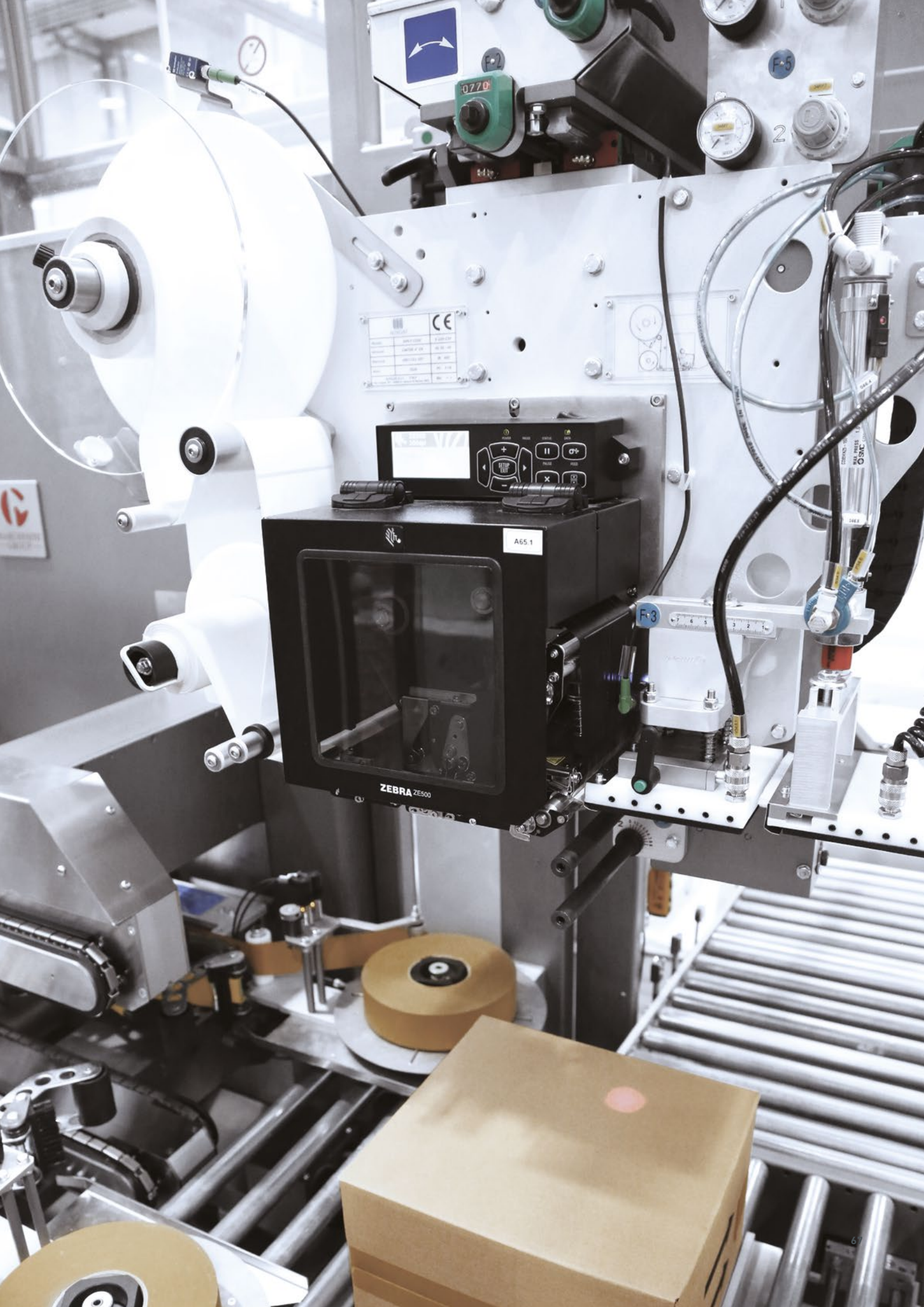
PALETIZING & DEPALETIZING

Featured Model **MDP**



**...the best end-of-line
machines the market
has to offer...**

Robust, reliable and compact: the Marchesini Group's family of palletisers, casepacker-palletisers and depalletisers includes the best end-of-line machines the market has to offer, all equipped with various automatic pallet handling systems, to meet any requirement. Their strong points include the use of a Gigacombi robotic arm, designed and built in-house, which guarantees outstanding performance and superb flexibility. Optional versions are also available with two palletising and depalletising stations.





**A proprietary technology
allows the robotics,
mechanics and electronics
to be perfectly integrated**

MARCHESINI GROUP PHARMA

SECONDARY PACKAGING

HANDLING & ROBOTIC MANIPULATION

The Marchesini Group designs and manufactures its own robots, a proprietary technology allows the robotics, mechanics and electronics to be perfectly integrated within the machines and packaging lines.

Since their introduction - in 2002 - the Marchesini Group has designed and installed more than 3,000 robotised units worldwide.

Seamless technological research enables us to offer efficient and advanced solutions to satisfy any technical production requirement, from the gentle handling of the products to the excellent performance of the Gigacombi robotic arm in our palletiser solutions.

OUR COMPANIES



BUFFER

Featured Model **BUFFER**



...the best production layout...

Based on the customer's needs the Marchesini Group can design and produce different types of BUFFERS for different kinds of products, in order to achieve the production targets and the best production layout.

Modular FIFO buffers and products in trays managed by robotised Pick & Place are only some examples of solutions we can develop.

CONTACT LENS

Featured Model **CONTACT LENS LINE**



**...our machines
optimally protect
the product...**

In order to create the best value for our customers, the Marchesini Group is structured to manage a complete range of machines starting from STANDARD to highly customised machines. The manufacturing flow of contact lens packaging begins with de-traying (contact lenses arrive in trays 99% of the time).

Our machines optimally protect the product, and the secondary packaging phase is completely automated and includes all checks and controls in every phase of the production flow, beginning with de-traying and ending with palletising.

AUTO-INJECTORS

Featured Model **COMPLETE PRODUCTION LINE**



**...every line is
customised for
a specific injector...**

We have extensive experience in the field of auto-injectors. Complete lines for the handling of auto-injectors have been designed and installed for managing the entire packaging process: de-traying, labelling, packaging into both PVC and cardboard trays, insertion directly into the carton without tray, check weighing, serialisation of the carton, case packing and palletising with aggregation. The flexibility of our robotics allows very different products and shapes to be managed on a single line. Every line is customised for a specific injector, layout, and packaging need.

INHALER

Featured Model **BL-H235**



**...we can
offer complete
lines...**

An inhaler is a device that gets medicine directly into a person's lungs. The medicine is a mist or spray that the person breathes in. The most common type of inhaler is the pressurised metered-dose inhaler (MDI) which is made up of 3 standard components - a metal canister, a plastic actuator, and a metering valve. We can offer complete lines for the entire production flow: Aerosol Test, Checkweigher, Labelling, Cartoning, Labelling-Printing-Serialisation, Wrapping, Case Packing & Palletising.

SYRINGES

Featured Model **NEXTRA-N10**



**...a complete range
of automatic
machines...**

Our portfolio includes a complete range of automatic machines for extracting syringes from nests and transferring them to a downstream process, as well as re-nesting machines for repositioning inspected syringes back into the nests.

SYRINGES

Featured Model **NEXTRA-N25**



**...with high capacity
loading system
for stacked trays...**

Automatic machines (de-traying) for syringes or safety devices feeding from Rondo-Trays with high capacity loading system for stacked trays.

To finish the process, fully robotised integrated re-traying machines for repositioning the inspected syringes into Rondo-Trays are available and have a small footprint.



Marchesini Group S.p.A.

Via Nazionale 100 • 40065 Pianoro BO
ITALY

T +39 051 047 9111
sales@marchesini.com
marchesini.com

MARCHESINI GROUP
INSPIRED BY THE EXTRAORDINARY