ocme
Moving Ideas



THE WRAP-AROUND CARTON PACKERS

The secondary packaging in carton made with wrap-around or pick and place wrap-around packers



305 M turnover

1360 employees
(67%Italy, 33% ROW)

17 locations worldwide

+100 Centres
World-wide after-sales support

+26,000
Automatic machines sold

2 Ocme production sites (Italy and China)

7 Robopac production sites
(5 in Italy, 1 USA, 1 Brazil)

ocme
Moving Ideas

OCME was established in 1954 and is known all over the world as one of the most reliable and innovative leaders in the automated packaging machinery and solutions sector. The headquarters are situated in Parma, Italy, and has operations world-wide.
It has provided its customers top-quality consumable packaging solutions, based on ongoing innovative research for 64 years.

OCME solutions are devised and produced in packaging valley, the Italian packaging machinery production hub and just like our red logo, the symbol of successful Italian industry across the globe.
After half a century of business, we believe our red line logo symbolizes our uninterrupted journey towards our sole objective: excellence.

ROBOPAC
Innovation driven by values

ROBOPAC, established in 1982, is world leader in the technology of stretch wrapping, with a production of more than 9,000 machines per year, 80% of which are exported to the main international markets.

Six technologies have been developed by the company: robots, tables and rotating arms for stabilising palletised loads by means of stretch film (core business), horizontal wrapping machines with stretch film for elongated products, machines for the application of stretch film and taping machines.
Thanks to a widespread distribution network and centres for technical service and spare parts available at the foreign branches, Robopac ensures timely, problem-resolving after-sales service worldwide.

OUR SOLUTIONS

DEPALLETISERS



Antares
Crate depalletisers



Dorado
Depalletiser for bulk containers



Pegasus D
Robot depalletisers



Starline
Depalletisers for bulk containers and cases



FILLERS FOR VISCOUS LIQUIDS



Libra R
Rotary weight filler



Libra LT
In-line weight filler



Virgo
Rotary filler for edible oil



PACKERS



Altair
Wrap-around carton packer



Vega
Shrink wrapper packer



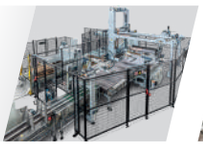
Gemini
Combined solution



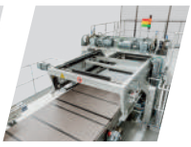
Scorpius
Pick & Place carton packer



PALLETISERS



Perseus
Traditional palletiser with 90° infeed



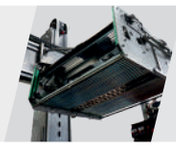
Orion
Traditional in-line palletiser



Pegasus
Palletiser Robot



Dynamic
traditional palletiser with 90° infeed



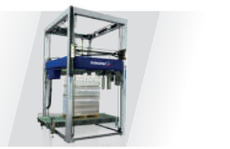
Ares
one-column palletiser



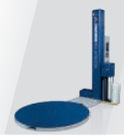
WRAPPING MACHINES



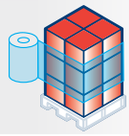
Helix
Range of wrapping machines with rotary arm



Genesis
Range of wrapping machines with rotary ring



Rotoplat
Range of wrapping machines with turn-table



INTRALOGISTICS



Auriga PS
Powered Stacker



Auriga CT
Counterbalanced Truck



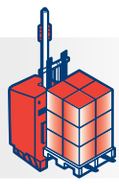
Auriga Z
Stabilizer



Auriga C
Conveyor



Auriga 14RT-H
Vehicle with retractable forks



THE WRAP-AROUND CARTONING

The first OCME packaging machine model dates back to 1964, when it was installed years earlier than equivalent solutions. Since then OCME has started a process of study, development and continuous improvement.

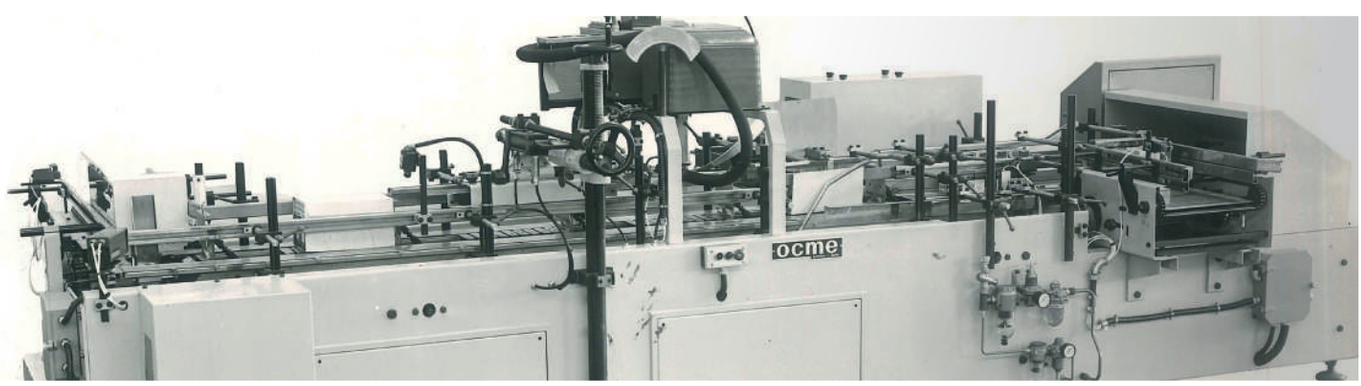
OCME offers two types of technologies in the field of cartoning: the wrap-around system and the American case. The American case is a container that is formed on its own into which the product is deposited; the wrap-around system, however, forms the carton around the product sealing it automatically.

The type of container is similar, the material is in many cases the same, but there are significant differences that need to be carefully considered before choosing one technology over the other.

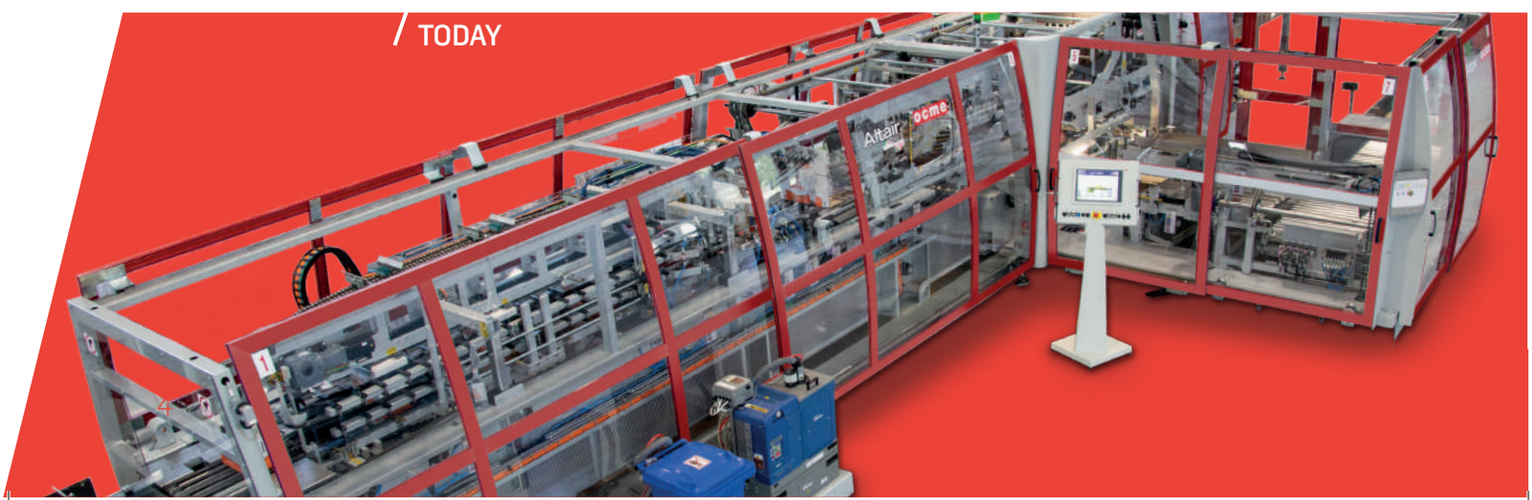
The American case requires the use of three machines: the first forms the carton, the second inserts the product into it and the last closes it.

The wrap-around system, on the other hand, uses only one machine, the carton packer, which, starting from the blank, i.e. the laid carton, wraps the products and seals the pack with a jet of glue. Thanks to this system, a single machine can reach a production speed of 100 cartons per minute, well beyond the potential of American case technology with the same space occupied on the ground, equipment installed and line complexity.

/ 1964



/ TODAY

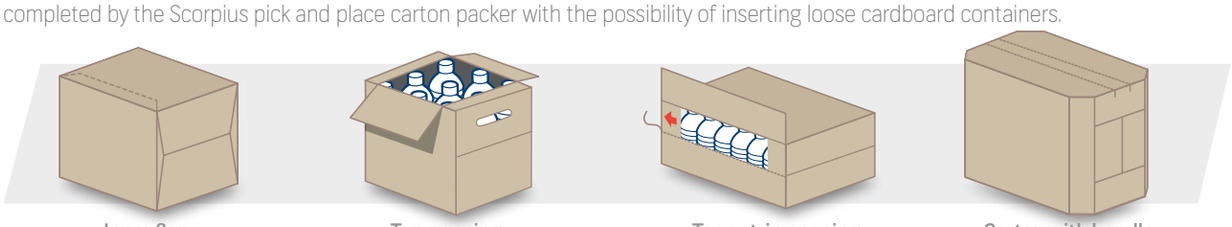


HIGH QUALITY SECONDARY PACKAGING

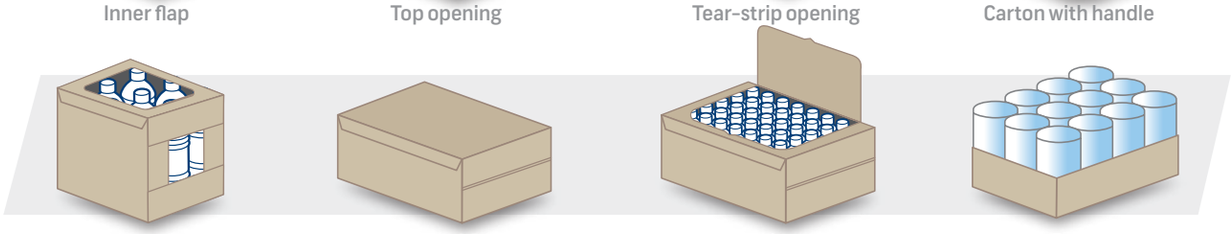
The OCME wrap-around carton packers are able to package many types of containers (plastic, glass, round, square, oval, triangular, etc.).

PROCESSED PRODUCTS

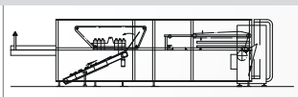
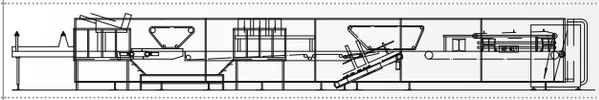
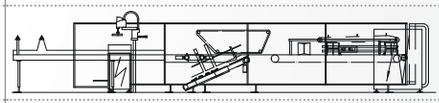
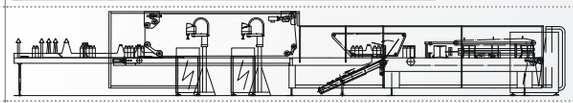
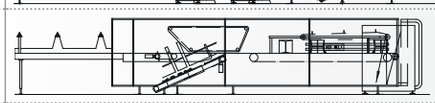
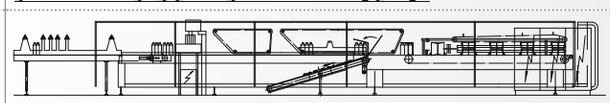
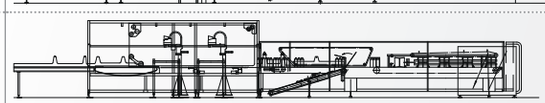
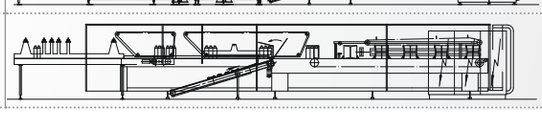
The designers have paid particular attention to the processing of the containers to avoid breaking or damaging the labels and thus ensure the highest quality level of the processed product. Thanks to its flexibility, the Altair system offers the possibility of creating innovative and diversified packs. Altair is capable of packaging easy-to-open cartons, trays and many special and functional types of packs. The wide choice of board available varies from micro-flute corrugated cardboard to high resistance cartons. The range is completed by the Scorpius pick and place carton packer with the possibility of inserting loose cardboard containers.



Inner flap | Top opening | Tear-strip opening | Carton with handle



Open carton | External flap | Assisted opening | Tray

THE ALTAIR RANGE		Speed cartons/min.	Dimensions mm (lxh)
ALTAIR X 30		30	8280x2200
ALTAIR A 40 ALTAIR A 50 ALTAIR A 60		40 50 60	11042x2200
ALTAIR A 40 P 1R ALTAIR A 50 P 1R ALTAIR A 60 P 1R		40 (40A) 50 (40A) 60 (40A)	11227x2250
ALTAIR A 50 P 2R ALTAIR A 60 P 2R		50 (50A) 60 (60A)	13150x2250
ALTAIR N 40 ALTAIR N 50 ALTAIR N 60		40 50 60	17850x2250
ALTAIR A 70 P 1R ALTAIR A 80 P 1R		70 (40A) 80 (40A)	17850x2250
ALTAIR A 70 P 2R ALTAIR A 80 P 2R		70 (70A) 80 (80A)	17850x2250
ALTAIR N 70 ALTAIR N 80 ALTAIR N 100		70 80 100	17850x2250

ALTAIR, WRAPAROUND CARTONING

Container infeed
It is very important that the infeed is designed to avoid blockages in the flow of containers and to ensure smooth size change-overs without the need to carry out further adjustments. Altair is equipped with profiled guides that are specially designed for each container shape and packaging pattern. Flow regulation systems enable to prevent jerky stops and starts, while a channelising bridge is only activated when a blockage is detected, so as to maintain continuity in the flow of containers at the machine infeed.

Product selection
The aim is to select the necessary number of containers, without them falling over or being damaged, whilst minimising the amount of time required for size change-overs. Two servo motors, controlled by the PLC, are used to separate the bottles (or containers) on the Altair systems. Changing the size simply involves the substitution of the 4 finger selecting bars if the diameter of the container changes.

Blank magazine
The standard capacity on the Altair range is approximately 600 blanks; the magazine is positioned at a comfortable height for the operator which does not put him at risk of a working injury or strain. In addition, it can be extended in two different configurations: a simple extension - which allows you to manually load up to 800 additional cartons - or with a tilting magazine. Thanks to the latter, Altair can integrate a robotic system to pick blanks directly from the pallet coming from the paper factory, which guarantees a high level of autonomy - depending on the specific configuration of the layout - and, above all, exempts the operator from the time-consuming manual lifting of hundred of kilograms of paper per day.

Blank dispenser
The dispenser is the assembly dedicated to selecting the blanks. The Altair dispenser has continuous control over the position of the blanks that, thanks to a photocell, allows perfect synchronisation with the introduction system.
The dispenser is fitted with high friction draw belts which ensure maximum long-term reliability, even with high production volumes. The belts are cleaned periodically by an automatic brush system, which rids them of any dust and ink left by the printing on the blanks.

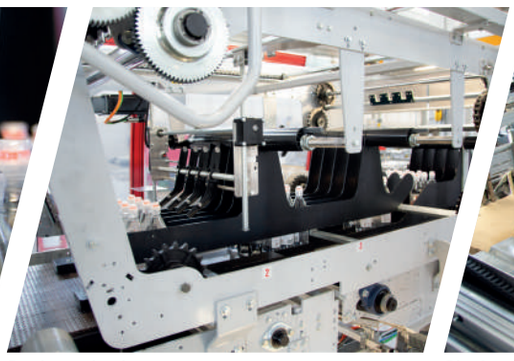
Coupling of containers – blanks
The position of the blank and of the containers is controlled electronically, so as to ensure that they run at exactly the same pace. The parameters for the different configurations are automatically set by the programme and the wrapping mechanism is designed to support the primary containers on all four sides.



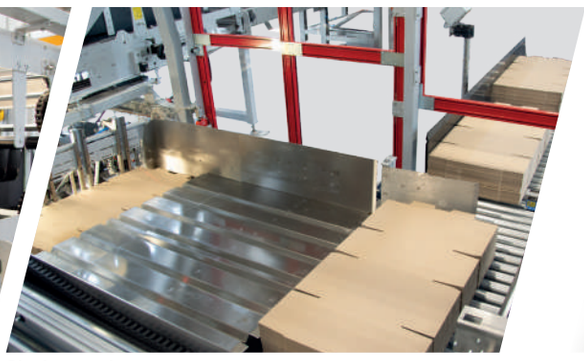
Closing and sealing
Altair uses moving mechanical devices to close the side and upper flaps. They enable active pressure to be exerted on the flaps themselves, thus making the closing operation more reliable. The glue nozzles are mounted in a perpendicular position in respect to the jet's point of impact.
The lateral compression guides are divided into sections and manufactured in a material with a low coefficient of friction; they are spring-mounted in order to achieve a continuous and homogeneous positive pressure on the flaps when the case passes through the compression section. As the height of the case varies, the compression guides adapt to work in the best possible position. To offer extra efficiency and autonomy, an extra reservoir for the hot-melt glue is available. When a minimum level is reached in the main tank, it is automatically topped up from the reservoir.



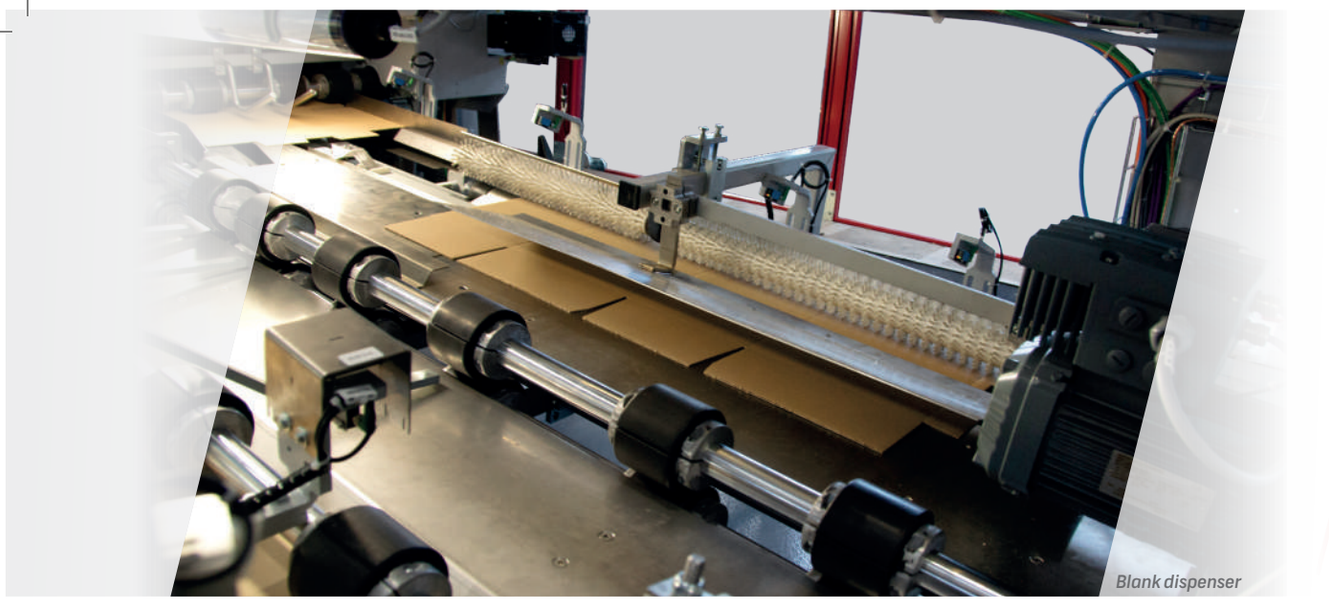
Container infeed



Product selection



Blank magazine



Blank dispenser

Blank dispenser



Size changeover
Size changeover has been the subject of intense rationalisation analysis in order to achieve the best overall result with a guided procedure, which can be followed by a single person with parts that can be easily identified via colour/number coding. Once the automatic change has been put into effect, Altair can go straight into full production without the need for fine-tuning, because it is impossible to make errors of adjustment or misunderstand the instructions.



Coupling of containers - blanks

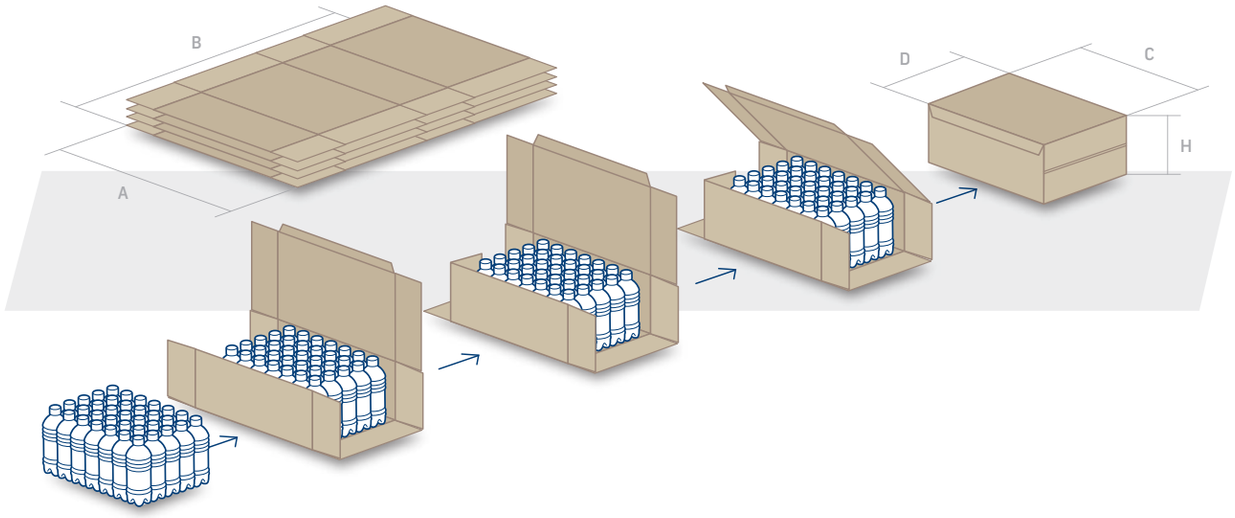


Closing and sealing

CARTON MANAGEMENT

The OCME solution provides that the blanks are always fed with "short side leading", while the closed carton advances in the machine preferably with the long side leading but, in some cases, also with the short side leading.

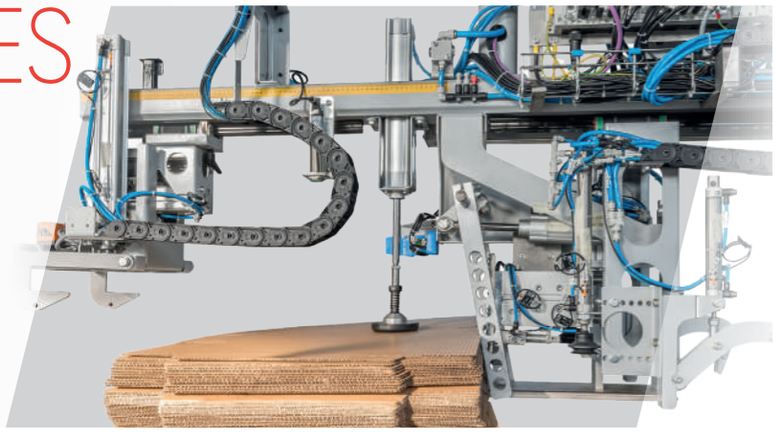
OCME's solution guarantees that the side flaps are closed as securely as possible with a jet of glue from suitably positioned spray guns. As the case dimensions vary, the lateral guides on the side compression section are spring loaded, which means that they work in the optimum position to assure a high quality result. The compression ensures that the glue is spread in a uniform fashion over a wide area, offering maximum resistance once the case is sealed.
The favourable position of the spray guns to the carton feeding direction allows for a smaller quantity of glue used compared to that of our competitors, with important implications for safeguarding the environment and also for company overheads.
The solution of forming the case with the long side leading, combined with OCME'S compression system, guarantees that the finished case is as compact as possible.
The most important aspect in the comparison is, however, the quality of the cartoning. With "long side leading" technology, case folding is achieved using motorised drives and not just fixed guides. In this way the cardboard is forced against the product, guaranteeing a much more compact pack.



GEMINI, THE COMBINED SOLUTION FOR SECONDARY PACKAGING

The range of heat-shrink wrap packers comprises the Vega HT and combined Gemini HT machines in which the heat-shrink wrap packer works in line with an Altair series wrap-around packer. The use of this kind of combined machine creates a flexible system with the capacity to process various pack configurations on the same packaging line.

THE ACCESSORIES



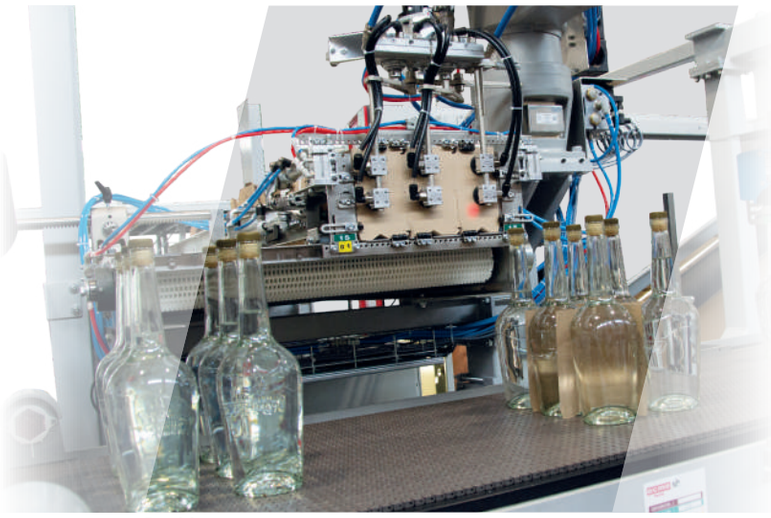
Automatic blank feeding

Carton weight control
These accessories are used both to meet metric-legal requirements and to control the content of cases, cartons or wraps downstream of automatic packaging machines, as an alternative to inspection systems. They are composed of a motorised belt conveyor weighing on the weight detection cell by means of an articulated structure which, in addition to vectorially breaking down the stresses on the conveyor, preserves its integrity even after violent side impacts.

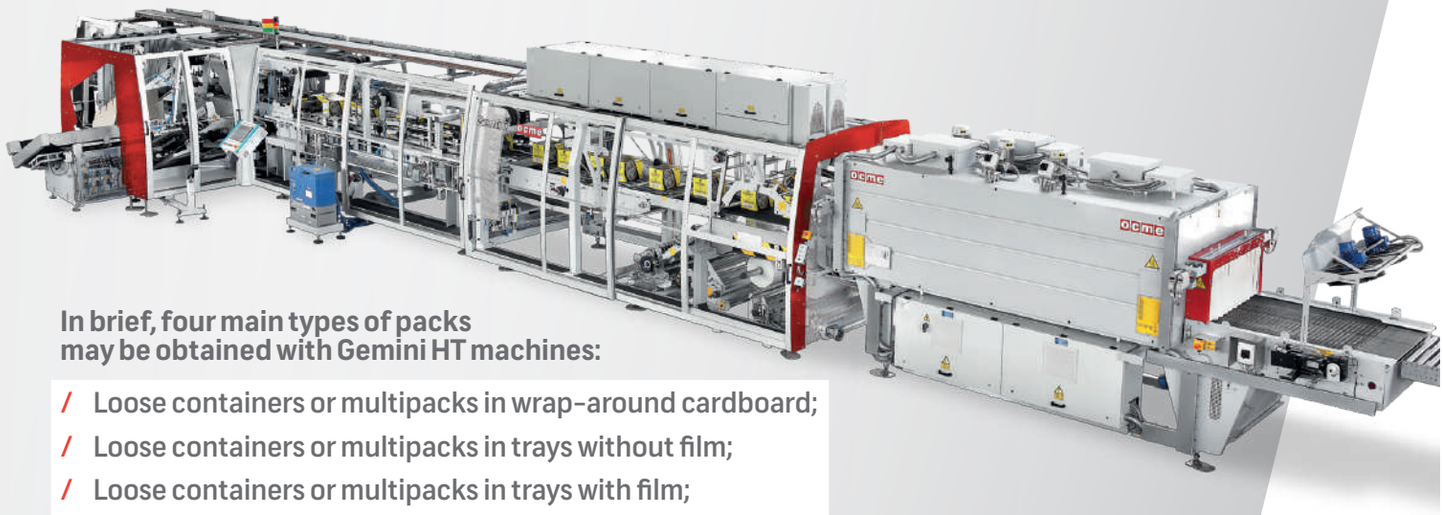
Automatic blank feeding
The capacity of the blank magazine can be extended by means of a robotised blank picking system directly from the pallet. The pallet from the paper mill only needs to be positioned on the conveyor by the fork-lift truck driver who removes the wrapping strap, after which the machine runs completely automatically for a long time. The operator is thus relieved of the need to lift stacks of blanks manually.

Partitions
In some circumstances it is necessary to provide further protection to the product inside the case. Cardboard partitions are used for this and they are inserted during the machine operating cycle. Altair is able to integrate two different technologies depending on the protection required: it can insert traditional partitions or pre-formed partitions.

- The first type, typically manufactured in corrugated cardboard, offer increased resistance against impacts and are therefore recommended for products which have to be transported over long distances. Traditional partitions are inserted from various feeding magazines that are appropriately placed along the packaging line.
- The pre-formed partitions use low-cost, preassembled, solid pressed cardboard, which protects the containers and also their labels from abrasion. The pre-formed insertion system consists of a side magazine, readily accessible for re-fill, and a S.C.A.R.A. robot which picks the partition from the magazine, opens it and then places it between the containers as they run down the line.



Partitions



In brief, four main types of packs may be obtained with Gemini HT machines:

- / Loose containers or multipacks in wrap-around cardboard;
- / Loose containers or multipacks in trays without film;
- / Loose containers or multipacks in trays with film;
- / Multipacks (in bundles or cardboard) in film only packs.

SCORPIUS
PICK AND PLACE BY OCME

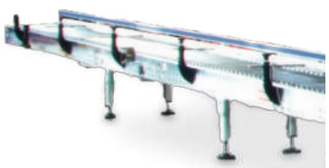
Scorpius is the new OCME solution for cartoning.

They are very versatile machines based on 3-axis Cartesian robots with speeds up to 40 cartons/minute and versions from 1 to 6 gripping heads adaptable to any shape and type of container. They are generally coupled with a carton forming machine (stand-alone or monobloc) for forming and closing the bottom of American cases with adhesive tape or glue. The size changeover is easy and without the use of tools where possible. The carton is closed (with glue or adhesive tape) by means of a special carton closing machine located at the machine outfeed.

Container infeed and selection
The containers arrive directed to the machine by means of a single-row conveyor and are dosed by means of two rubberised belts. They then enter the stacker unit that forms the row of containers to be taken from the gripping heads in its entirety.

Picking unit
The containers are picked from the stacker by means of pneumatically-actuated grippers fixed to the gripping heads,which are driven by a 3-axis Cartesian manipulator. Each head is able to pick all the containers that must be housed within the individual carton and the grippers, designed around the geometry of the top of the container, are then produced by 3D printing to fit perfectly.

Size changeover
The size changeover has been designed to avoid the use of any tools. The most critical part, i.e. the replacement of the gripping heads, has been developed so that the gripping heads can be removed without any tools or effort by the operator. The gripping heads are removed by the Cartesian manipulator with the aid of a special tool trolley that always supports their weight and fixes their position. The heads thus disassembled can easily be moved.








Scanplus

TECHLAB™

Innovation and avant-garde are among the main watchwords that unite Robopac and Ocme. A clear example of this is TechLab™, the most advanced research laboratory system in the industry dedicated to continuous product and process development.

The main target of the TechLab™ laboratories is to allow all the Group's solutions to be tested and to offer customers the possibility of scientifically verifying the effectiveness of the palletised load packaging systems.

Thanks to its ability to stabilise and secure the palletised load, TechLab™ ensures that the product arrives at its destination perfectly intact. In addition, the lower use of packaging materials reduces costs and contributes to a lower environmental impact.

The consolidated know-how, the continuous updating and the technological evolution, as well as the assistance guaranteed on a worldwide basis, make Robopac and OCME an international reference point for the design and manufacture of packaging machines.



LIS - LINE INFORMATION SYSTEM

The line supervisor can be customized according to line features and customer needs. It was developed on a ZenOn platform (COPA-DATA) and runs on a dedicated Windows10-based server.
It may be installed in the office or directly in the production area, so as to monitor all the machines of one or more production lines.
The supervisor is designed to communicate with all the machines on the line using the most common Ethernet-based protocols (PVI, ethernetIP, etc.). Acquired data are formatted according to the international OMAC - PackML standard and are all easily accessible using a simple and user-friendly operator interface.

The many features offered by the LIS offers include:

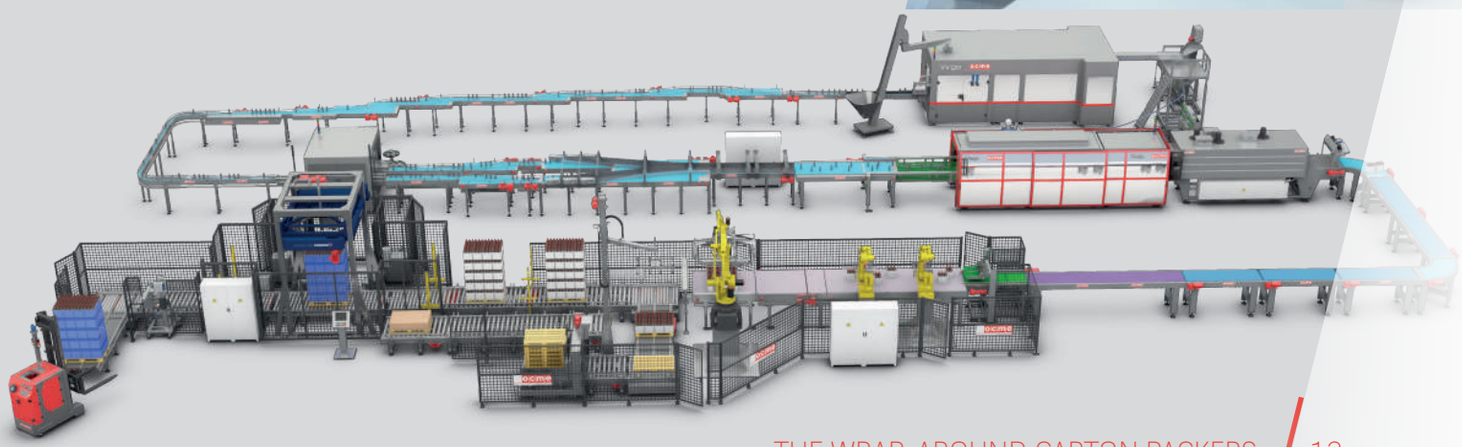
- **Viewing the operating status of the entire line**
- **Monitoring production status**
- **Managing production shifts**
- **Managing user authentication**

The system provides the following information in historical form and real time:

- **operational status (OMAC status, speed, stops, etc.)**
- **Performance and production data**
- **Alarm events**
- **Production reports**



PackML an OMAC standard



CUSTOMER SERVICE 24/7

With OCME's service solutions, an investment is made in long-term performance. We offer an extensive range of customer-focused services, based on assistance and after-sales support for the machine.

We provide several services, such as local or remote technical support through the use of the most modern technologies, the supply of spare parts, the installation of updates, maintenance contracts and more. Everything is devised with the aim of meeting the needs of our customers and building a lasting relationship, based on mutual trust and cooperation. Reactivity, proactiveness and proximity are some of the values we believe in, some of the principles we follow to accomplish our mission to the best of our abilities and reach our objectives.

FIELD SUPPORT
OCME can rely on a network of technicians situated across the world, ensuring your machines continue to work, and that production is optimal at all times.
Field support includes several activities, such as diagnostics visits and reports, scheduled maintenance, servicing, installing updates and emergency intervention for problem-solving. Through direct analysis of the machine, the OCME technician will also be able to recommend the most appropriate upgrades and services for your plant. As soon as we receive a request from a customer, we select the most appropriate technician, taking into consideration the machine family and the activity to be performed on site.

SOPHISTICATED IT SOLUTIONS
We have devised a series of technologically advanced systems and services to put at your disposal, which envisage cooperation between customers and OCME technicians.
Thanks to our 24/7 service and with the aid of wearable devices (wearable devices for remote visual support) you will have the opportunity to link up directly with our expert technicians, who are available 24/7, in the event of a problem during production (paid service).





TRAINING

OCME offers consultancy programmes aimed at transferring and sharing our experience and technical expertise.
This way, you'll be able to get the most out of your machine, achieve safe production and optimise machine performance long-term. Each training course can be customized according to your needs. The aim of the course is to train your personnel on the method of intervention to guarantee machine operation with outstanding quality standards, taking into account the efficiency of production and basic compliance with prevention and safety procedures. This coaching phase helps maintain a high level of efficiency and productivity for your machine. These courses are designed to enable your staff to solve problems independently, improve results and achieve the success your company expects.

One of our IT solutions is the "MyOCME" App.
This new App will grant you access to OCME services quickly and in a revolutionary manner, simply using your smartphone. The App will allow you to open Emergency Tickets relating to machines covered by a contract by means of an interactive channel that will further improve communication with our technicians and with the remote support service.
"My OCME" allows us to digitize several existing procedures and also to include new features, such as routing and improving information on OCME services to our customers, speeding up requests for technical support in case of problems with our systems, providing any useful information on the services included in the Service Contract (SLA, list of machines, emergency ticket management, etc.).



UPGRADES AND SPARE PARTS

As an original equipment manufacturer, we know exactly what your production line needs to deliver optimal and consistent results.
Our specialised technicians analyse and test each and every part before delivery on time.
Once the request has been received from a customer, a feasibility study is opened on the machine involved. The engineering department develops the request and offers the best solution, making use of cutting-edge materials and technologies.

MAINTENANCE CONTRACT

The maintenance contract is another great feature for your peace of mind! Rely on our experience to anticipate any possible problems, as well as on our prompt response times for impeccable service. The services we offer are designed according to a strategy that aims to provide added value to our customers' machines and plants over the years (TCO), to keep a trust-based cooperative relationship with our Customers, to prevent causes for malfunctioning and quickly solve any critical issues that may arise.
The maintenance contracts are offered to Customers in a modular and flexible form, in order to put together an effective offer that is capable of accommodating the specific requirements of the Customer.



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