



CONVEYING
PALLETIZING
SYSTEMS

CUTTING EDGE SOLUTIONS





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INTRODUCTION

EXPERIENCE & INNOVATION

10 years after the first PVC container appeared on the market (early 80's), followed by PET containers, Zecchetti was recognised (and still is) as the 1st manufacturer/supplier of equipment for the empty PET bottle handling in the world. All plastic bottles (PET, PVC, HDPE) no matter which shape they have, can be handled by Zecchetti Equipment, even the smallest and lighter containers and, of course, including 5 lt. tanks; all plastic bottles destined to the most diverse sectors (soft drinks, water, wine, chemical products, etc.). The technology developed by Zecchetti has definitely solved any problem arising from bottle possible instability, tackiness, electrostatic charges. Such a long and successful history and experience in the empty container-handling brought Zecchetti to debug all their equipment to the point where they can take for granted the smooth operation and the maximum efficiency. This means that now the commitment is to make life easier for our customers and help them reduce the production costs. Based on such guidelines, we highlight the following general concepts which relate to all our production.

TOTAL AUTOMATION

Zecchetti has been one of the first manufacturers introducing the format change-over automation (ex. driven side guides). Today, we can boast a highly sophisticated management of the lines which allows a functional and flexible adjustment at all areas. In fact, the driven adjusting systems are smart, provided with self-diagnostic and can be actuated individually or in groups.

MOBILE WIRELESS SUPERVISION "WALK PAD"

Very often the conveying line extends for several meters or even on different levels of the same plant. For this reason we thought to supply a tool which allows to act on the conveying line from wherever the operator is located. The Walk Pad gives the possibility to adjust **every single driven group of the line** and save this change in the recipe without having to operate on the main panel (ex. Motor speed, guide position, etc.).

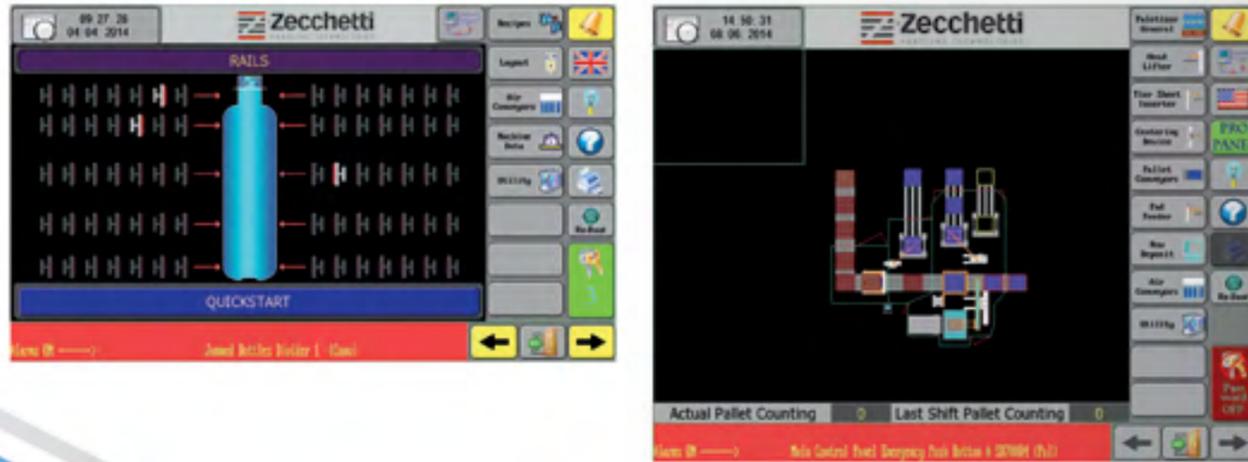
The Walk Pad presents all the main functions of the remote operator panel such as, for example, line function settings, receipt of information about line status and active alarms, etc. This means that the line can also be remotely supervised.



ENERGY SAVING

The operation philosophy developed by Zecchetti is designed for a smart adjustment of the motor speed, based on the most varied conditions of the bottle flow so as to minimize the energy requirements and the installed power of the line. The activation of such a system requires a control PLC, variable frequency drives and an operator panel (Touch Screen).





SMART CONTROL ENGINEERING

Given the major role played by the HMI in the efficiency of the line, Zecchetti proposes a user friendly, highly developed supervision software with great flexibility in the recipe setting to guarantee top performances and minimum change-over times.

MAIN FUNCTIONS

- Synoptic of the whole line, possibly even on a remote supervision PC or mobile device.
- Simple and immediate access to any part of the line by selecting it.
- Possibility of modifying the line parameters.
- Display of every single motor speed.
- Display of every single motor absorption.
- Adjustment of every single motor speed.

DATA PROTECTION

6 safety and configurable levels accessible by means of a password.

RECIPE SETTING

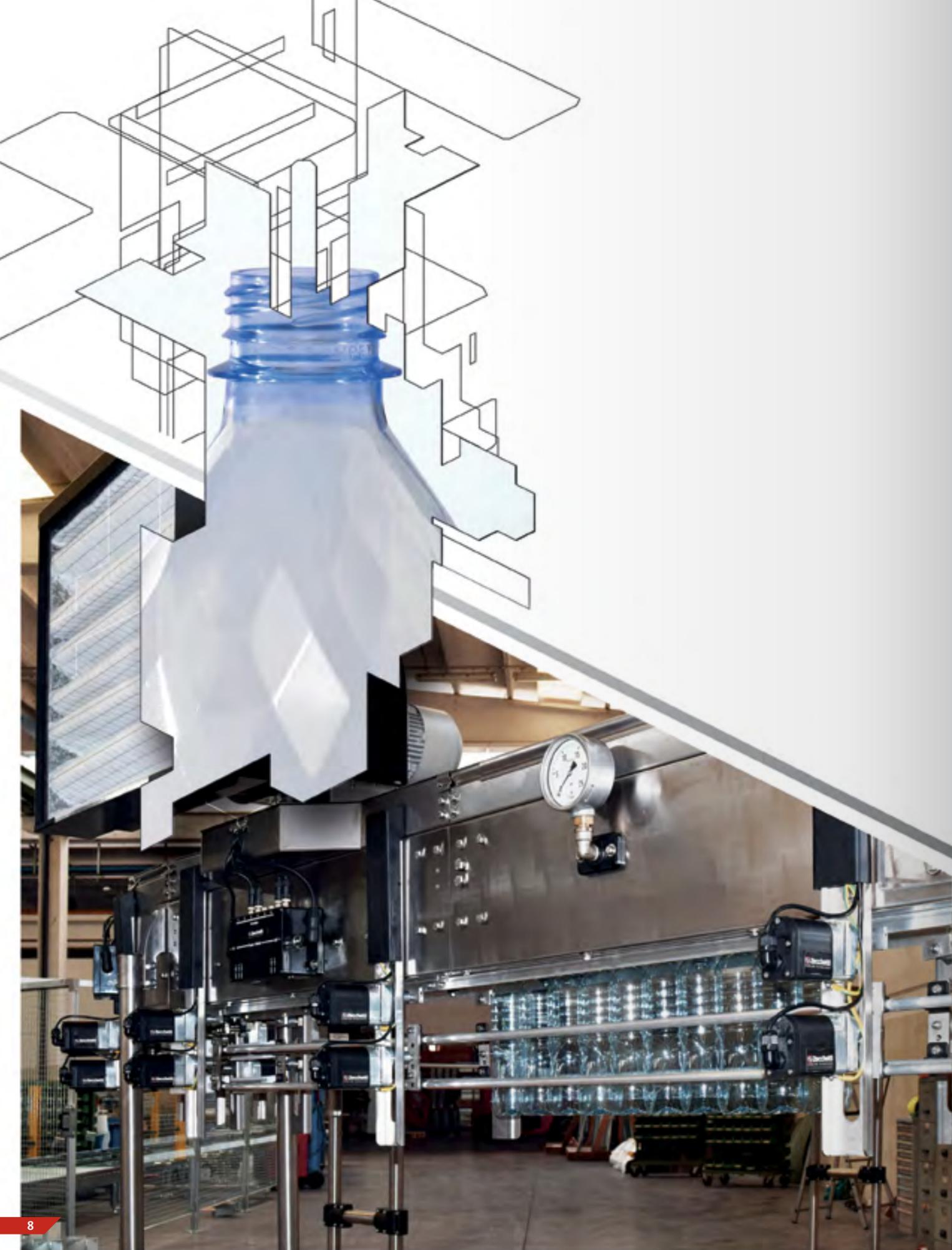
- It is possible to create a new recipe by simply typing the new bottle diameter.
- Possibility of saving/loading/deleting the recipes.
- Possibility of offline setup for any recipe while machine is running.

PRODUCTION COUNTINGS

- Possibility to set up max. 4 work shifts.
- Display the production history of any period.

ALARM MANAGEMENT

- Display of active alarms with relevant help.
- Display of alarm history of a given period.
- Display of alarm statistics of a given period.



AIR CONVEYOR

THE QUICKEST AND SAFEST WAY TO TRANSFER EMPTY PET BOTTLES

TRUST THE EXPERTS

Zecchetti's long history and experience in the container-handling sector allows for a deep understanding of the technical requirements of a variety of air conveyor applications. Some conveyor applications are simple and others are very difficult. The ability to see the difference, before the system is installed and running, and the ability to use proven engineering concepts to take away the "black-art" of conveyor system design only come from experience. The most successful conveyor system is made up of proven hardware along with an integrated automation system and a layout design that fits the application or range of applications with the right degree of flexibility. Zecchetti was among the first Italian manufacturers, if not the very first, to produce air conveyors. In almost 25 years, over 1000 Zecchetti Air Conveyor Lines have been supplied all over the world.

EFFICIENCY AND ENERGY SAVING DESIGNED TO PERFORM

Efficiency and energy saving are the key words of Zecchetti R &D Department. The air conveyor evolved design has been aimed at increasing the air pressure inside the OMEGA shaped frame. Correctly orientated louvers (through which the air is blown) and a perfect tightness of the frames permit to eliminate air losses and consequently to increase the air pressure inside.

The consequence is a reduced number of necessary fans which automatically brings to a Energy Saving .



SPEED CONTROL

The transit speed is constantly controlled. A feed back from the downstream line permits to keep a constant speed, eliminating any problem arising from ambient/climate conditions and keeping the filter efficiency under control.

Main Features

- **FRAMES** are self-supported, manufactured in stainless steel and provided with doors for inspection and easy cleaning operations. Bottles are suspended by their neck ring on special plastic rails and moved by air pressure produced by centrifugal fans.

Supports may be:

- to the ground;
- to the wall;
- from the roof.

- **BUILT-IN CABLE TRAY**
Cables are fully enclosed in the easy accessible built-in cable tray which means:

- a cleaner line design which can be be further improved by the cable tray in Stainless Steel version;
- a quicker line installation.

- **NECK RAILS** are smooth, low-friction special plastic, CLIP-ON profiles. Neck rails can be automatically adjusted (2,3 positions or more)

- **BODY GUIDES** may be of various types and their number varies. Profiles are in smooth, low-friction special plastic. Body guides may be automatically adjusted either pneumatically or mechanically

■ AIR FILTERING

- 1-stage
Filtration Class: G4-EN779:2002
Efficiency: Min. 90% galvanometric.
- 2-stage
Final Filtration Class: F0-EN779:2002
Efficiency: Min. 95% opacimetric on 0,4 micron.
- 3-stage
Final Filtration Class: H14 - EN 1822 HEPA Filter
Efficiency: 99,995 MPPS 0,12 - 0,17 micron
Min. 99,999 NaCl - 0,65 micron.

Filtered air Class:

- 100 - according to the Federal Standard 209;
- 5 - according to the ISO Standard 14644.

In case of 3-stage absolute filtering two different closure types are available:

- partial side closures (better access to the bottles);
- full closures (better preservation of the air).



Customer tailoring

■ INTERFACES

Sections adjustable in height permit perfect interfaces with other machines on which the bottles are to be transferred onto their base (ex. Rinsers, Labellers, Fillers ecc.).

■ SPLITTER / COMBINER UNITS

- 1 to 2 lanes - drawer-like splitter;
- 1 to 3 lanes - drawer-like splitter;
- 2 to 2 lanes - drawer-like splitter;
- 1 to max. 8 lanes - high speed driven flow splitter.

The driven motion of one section of the conveyor line allows for an Automatic Format Change-Over also at the splitting zones.

No extra parts required.

■ VARIOUS

All equipment necessary to guarantee a perfect running of an air conveyor line such as:

- bottle stops;
- upslopes/downslopes;
- bottle ejectors.



Focus on

■ DIFFICULT BOTTLES

The way to successfully face them only comes from a long experience and the ability to use proven engineering concepts. ZECCHETTI has been the first conveyor manufacturer handling special bottles.

ZECCHETTI have, in fact, developed special applications such as:

- special upper plates (inside the conveyor frame) preventing some "risky" bottle movements;
- guides on the bottle shoulder zone;
- profiles on the bottle base zone.

■ FORMAT CHANGE-OVER

Neck and Body Guide Adjustment:

- manual;
- automatic by means of pneumatic cylinders;
- automatic by means of INFINITE POSITION DRIVES.

Thanks to the driven system featuring motors connected through Field BUS, side guides positions (setting) become INFINITE (with NO LIMITS).

This means:

- line preset for any possible future format;
- line self-configuration;
- constant monitoring;
- fast and accurate AUTOMATIC change-over.



Benefits

■ NECK RAILS & BODY GUIDES:

- smooth;
- wear resistant;
- long life.

Neck Rails and Body Guide automatic adjustment (including the INFINITE POSITION DRIVES) can be retrofitted and do not involve major modifications to the existing lines.

Option

■ AUTO LUBRICATING SYSTEM FOR THE NECK GUIDES

- reduction of the jams, in case of particularly difficult bottles;
- increase of 100 to 200 % of the neck guide life;
- reduction of 20 to 40% of the pressure inside the conveyor=equivalent saving of the absorbed power.

■ LINE CONTROL

ZSA - ZECCHETTI SUPERVISION ON WALK PAD

The system is a mobile wireless supervision which enables the operator:

- to receive information about the line status and the active alarms in real time, wherever he is;
- to move along the line and, by writing or reading the motor number (through a bar code reader), check the speed and modify it after having seen personally and in real time the line behaviour after the speed change;
- to adjust the other recipe parameters (times, etc.) and double check the result immediately.

All those possible changes will directly modify the recipe by improving it, as if the modifications were done on the main supervision, with the advantage of acting on the very site, thus checking the change and the result immediately.

- Perfect optimization of the recipes;
- reduction of the format change-over times;
- perfect replica of the line ideal parameters with no human incognita;
- visualization in real time of the line status;
- early intervention in case of problems on the line.

THE MOBILE ZSA (ZECCHETTI SUPERVISION APPLICATION) CAN BE INSTALLED ON WALK PAD, SMART PHONE, TABLET.





CHAIN CONVEYOR

MODULARITY FOR TOP FLEXIBILITY

Thanks to the long experience in empty plastic container handling, ZECCHETTI is able to propose safe technical solutions for even very light and unstable bottles that cannot be transported "by air". Extreme care for the details, together with a continuous research of improvements allow to supply high-speed, top-performance conveying systems.

The primary target of a TABLE TOP conveying system is to ensure a smooth, safe and efficient transfer of the containers. To succeed in this, every detail is realized with high quality materials and each critical area is designed with the right solution.



Main features

- AISI 430 STAINLESS STEEL STRUCTURE (extruded aluminium on request).

The particularly strong structure is the main and most important feature of the conveying line, allowing to build:

- single and multiple lane linear sections;
- single and multiple lane bends;
- side-to-side connections;
- single filers;
- free flow tables.

The supports are adjustable in height for perfect interface with other chain/air conveyors.

- SIDE GUIDES

In polyethylene H.D. (UHMWPE) can be of various types, according to the bottle shape, to guarantee top control of the bottle and minimum friction when accumulating. Proper connections between bended guides and straight guides permit to have no interruptions and no obstacles thus avoiding any risk of scratching and dents.

- CHAINS

In plastic (any brand available on the market, provided of course it is suitable to convey plastic articles).

- MOTORS

IE4 Super Premium (Energy Saving > 20% - CO2 Ejection < 21%).

- GEARED REDUCTION UNITS

Geared reduction units are all with hollow shaft, fitted directly onto the towing shaft. Frequency Variators fitted into the Control Cabinet or on board the conveyors.

Focus on

- VACUUM ASSISTED CONVEYOR to further increase the product stability, particularly at the critical zones.

- Variable Frequency Drives allow for the vacuum degree adjustment;
- gauged drillings for vacuum assistance at the passages (progressive activation of the vacuum).

- CONTINUOUS FLOW SPLITTER

- flow is never stopped;
- high precision and perfect synchronization with the bottle speed thanks to a brushless system with axis control;
- flexible and accurate splitting and balancing of the downstream lines;
- bottle stability guaranteed even at very high speeds;
- high precision telescopic arm thanks to linear guides with recirculation of self lubricating spheres;
- accurate bottle counting through photo eyes and optical fibers;
- self adjusting facility.

- AUTOMATIC FORMAT CHANGE-OVER

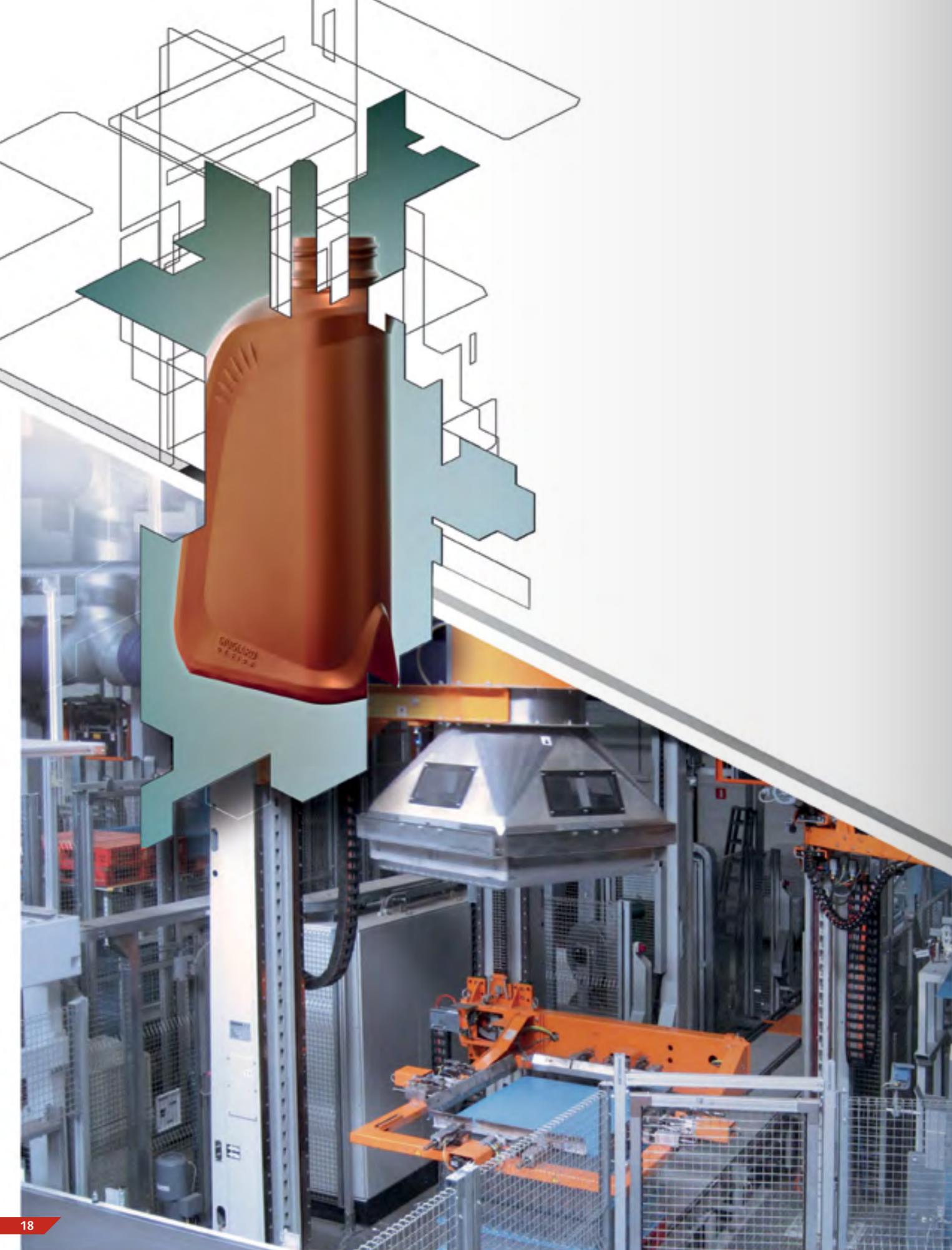
- recipe based automatic adjustment of the body guides (infinite positions);
- automatic adjustment of the photo_eyes.

Option

- PROTECTION COVERS

- upper covers in PLEXIGLASS or STAINLESS STEEL;
- on request, protection might be also lateral.

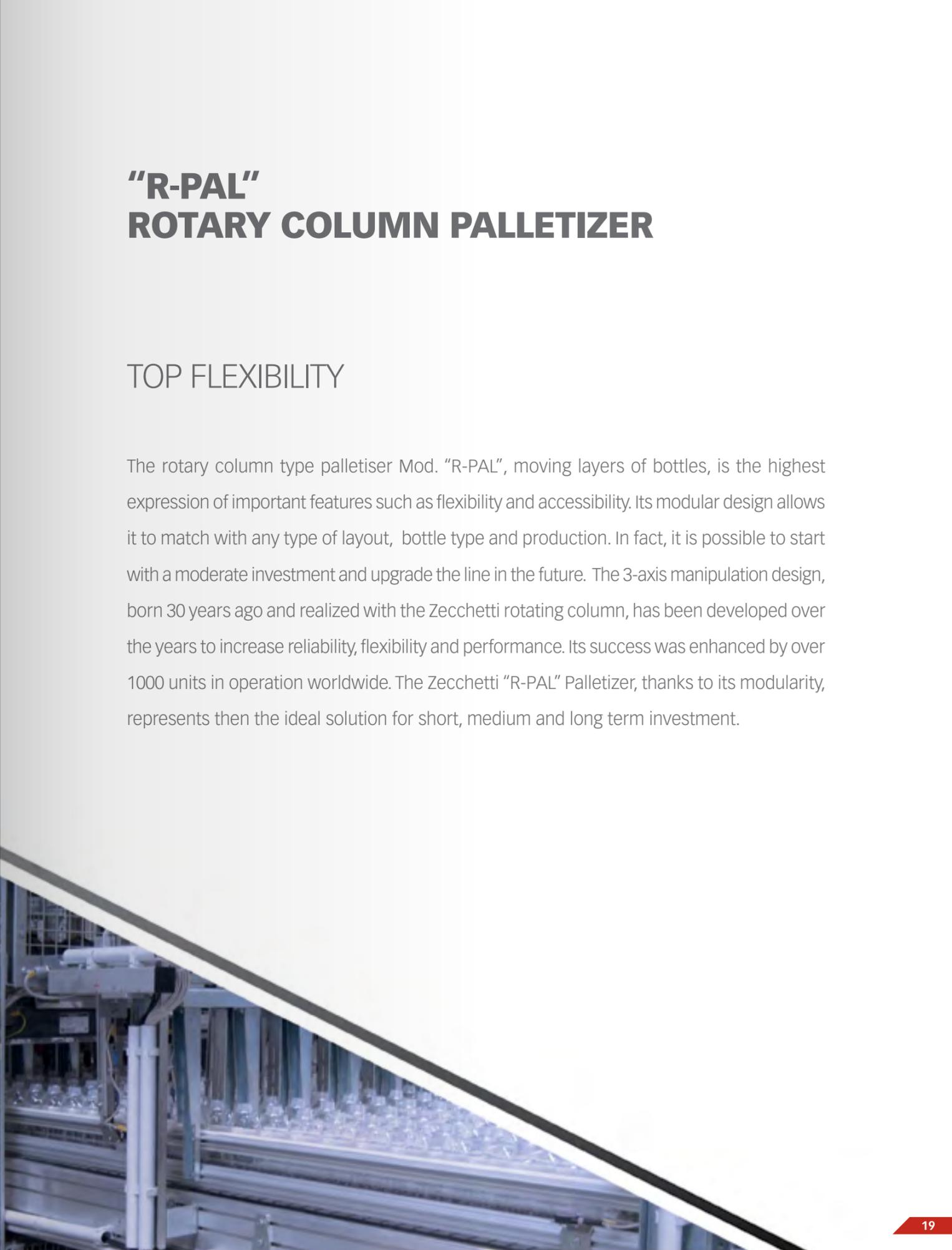




“R-PAL” ROTARY COLUMN PALLETIZER

TOP FLEXIBILITY

The rotary column type palletiser Mod. “R-PAL”, moving layers of bottles, is the highest expression of important features such as flexibility and accessibility. Its modular design allows it to match with any type of layout, bottle type and production. In fact, it is possible to start with a moderate investment and upgrade the line in the future. The 3-axis manipulation design, born 30 years ago and realized with the Zecchetti rotating column, has been developed over the years to increase reliability, flexibility and performance. Its success was enhanced by over 1000 units in operation worldwide. The Zecchetti “R-PAL” Palletizer, thanks to its modularity, represents then the ideal solution for short, medium and long term investment.



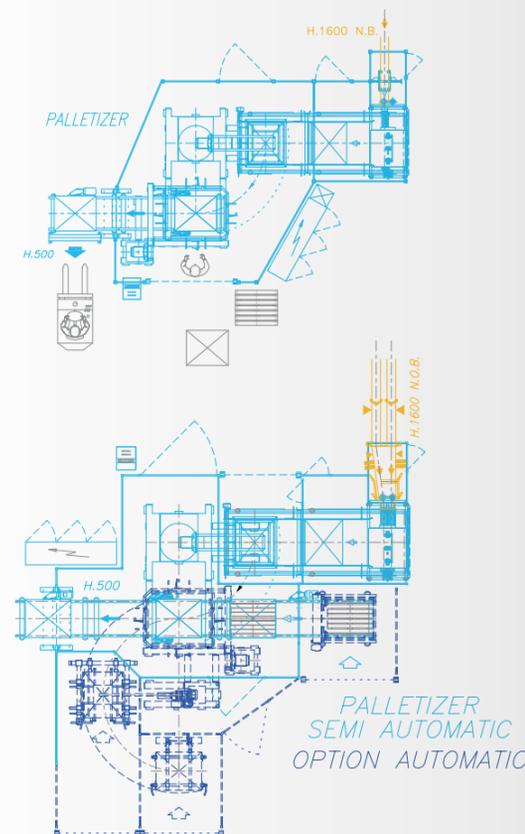
Main features

- The rotating column can house various layer handling systems to be chosen according to the bottle format:
 - pickup head with pincher rails;
 - exhaust type pickup head;
 - side gripping head.
- Flexible infeed, TTC - AIR, means all bottle shapes can be handled.
- TTC Infeed - The machine is equipped with a STACKER (up to 6 lane) pushing the incoming bottles onto the layer forming table. When required by particularly unstable products, a vacuum system is applied to the stacker chains.
- AIR Infeed - The machine is equipped with a DROP ARM SYSTEM receiving the bottles from the air conveyors and depositing them onto the palletizing table.
- HIGH-PRECISION BOTTLE COUNTING
The exact number of bottles/row is guaranteed by Driven Belts and High Precision Photocells. The belts guarantee the best performance for any bottle shape: cylindrical, rectangular, square, oval.
The ready-to-enter row is not affected by the incoming up-stream bottles.
The narrow belt dimension allows to put side-by-side multiple conveyors to adjust the machine to the line speed.

- Such a characteristic allows to have a fully automated construction of the layer which guarantees a perfect formation and, at the same time, the possibility to still have the operator carrying out manually some operations such as the pallet positioning/removal and the layer separator placement. The latter operations can be automated later on by adding the necessary groups such as empty/full pallet conveyors, layer separator column and the relevant layer separator magazine/s.

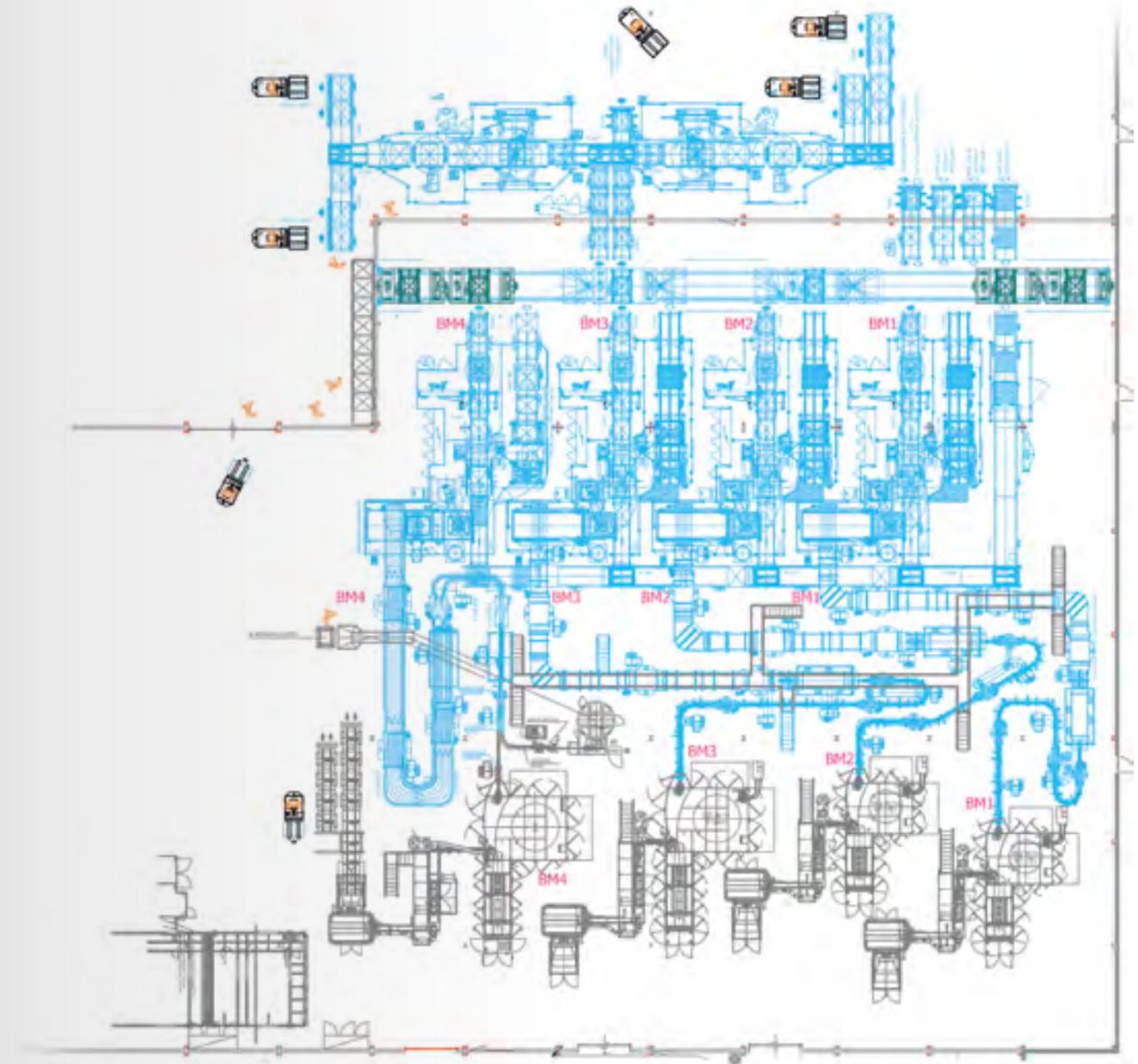
Benefits

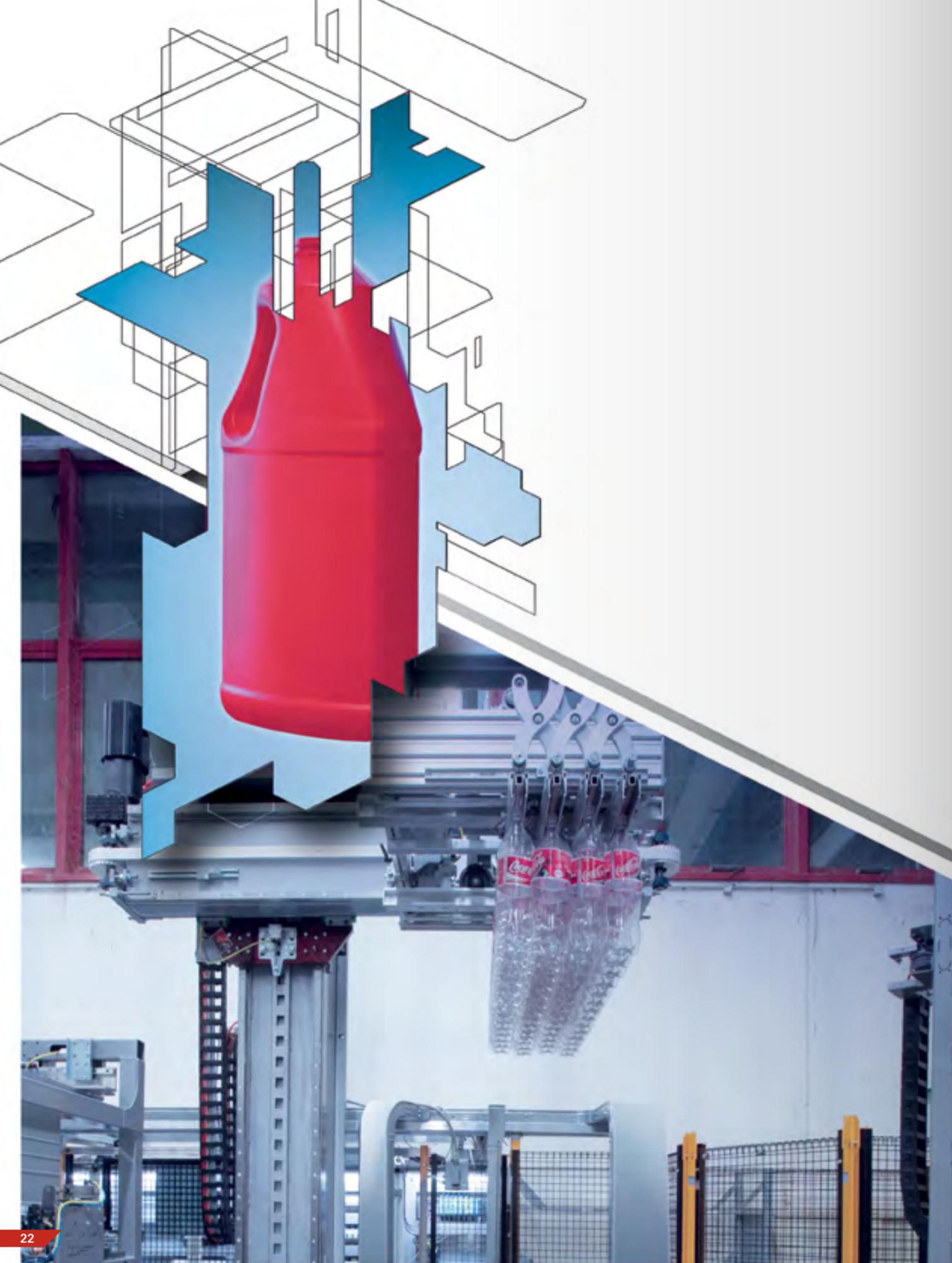
- The "R" PAL is the right machine to be considered when having to transport bottles with TTC conveyors and, at the same time, having to cope with a high speed. In fact, it is able to run up to 3,5 - 4 layers/1'.



Focus on

- The main feature of the "R" PAL (Rotary Column Palletizer) is the fact that it is composed by 2 separate dedicated areas i.e.:
 - layer preparation;
 - pallet formation.





“RBR” EASY PAL - ROW BY ROW PALLETIZER

ALL BOTTLE SHAPES, ONE SOLUTION

The Row By Row Easy Pal concept successfully brings together automation and container handling technology for optimal performance in the high change-over environment of today's bottle manufacturing lines. It represents the solution featuring the best ratio between PERFORMANCES and OCCUPIED FLOOR SPACE.

The bottle rows are picked up from the feeding system, compacted and directly deposited onto the pallet. The continuous bottle control and the absence of the layer formation table contribute to safely handle even the more unstable and lighter bottles.

This generation of machines makes life as “easy” as possible, requiring very little operator intervention to run. Flexible infeed, TTC - AIR, means all bottle shapes can be handled.

Main features

■ THE CENTERING UNIT IS THE REAL HEART OF THE MACHINE

Centering is carried out on:

- bottle rows;
- layers of bottles;
- layer separators.

The correct layer setting and the stability of the palletized load are assured by the operations carried out in that zone.

A couple of independent guides go with all the centering operations while the head works independently.

One guide guards the just deposited rows while the other one waits to receive and settle the new rows.

All that, together with a set of driven perimeter guides for the layer and tier sheet centering, creates a comprehensive system which takes care of the pallet load safe centering and full stability.

■ BOTTLE ROW PALLETIZING HEAD

Task of the head is to pickup rows, compact them, transfer and deposit them directly onto the pallet.

The head drives the bottle rows to the right pitch thus depositing them on the pallet already in the right setting which guarantees their stability.

The head may be equipped to pickup 1 to 12 rows of bottles.

The right pick-up system will be fitted according to the bottles to be handled:

- rigid aluminium pincers (neck pickup);
- flexible pincers with rubber (neck pickup);
- flexible pincers (body pickup);
- mechanical fingers.

A solution for whichever bottle.

■ ROW SMART HANDLING

The driven variable width of the infeed channels allows to retain the bottles during the transfer and pick-up operations thus improving their stability.

The auto-adjustable end retainers give the possibility to handle both staggering and parallel rows as well as the corner bottle removal configuration.

■ HIGH-PRECISION BOTTLE COUNTING

The exact number of bottles/row is guaranteed by Driven Belts and High Precision Photocells.

The belts guarantee the best performance for any bottle shape:

cylindrical, rectangular, square, oval.

The ready-to-enter row is not affected by the incoming up-stream bottles.

The narrow belt dimension allows to put side-by-side multiple conveyors to adjust the machine to the line speed.

■ PALLETIZING HEAD MOVING SYSTEM

The ROW-BY-ROW palletizing head may be fitted on different supports:

- 2-AXIS SYSTEM realized with a robust lifting column and a solid horizontal beam;
 - 4-AXIS INDUSTRIAL ROBOT
- The choice is based on the operations to be carried out, the requested speed and the available space.

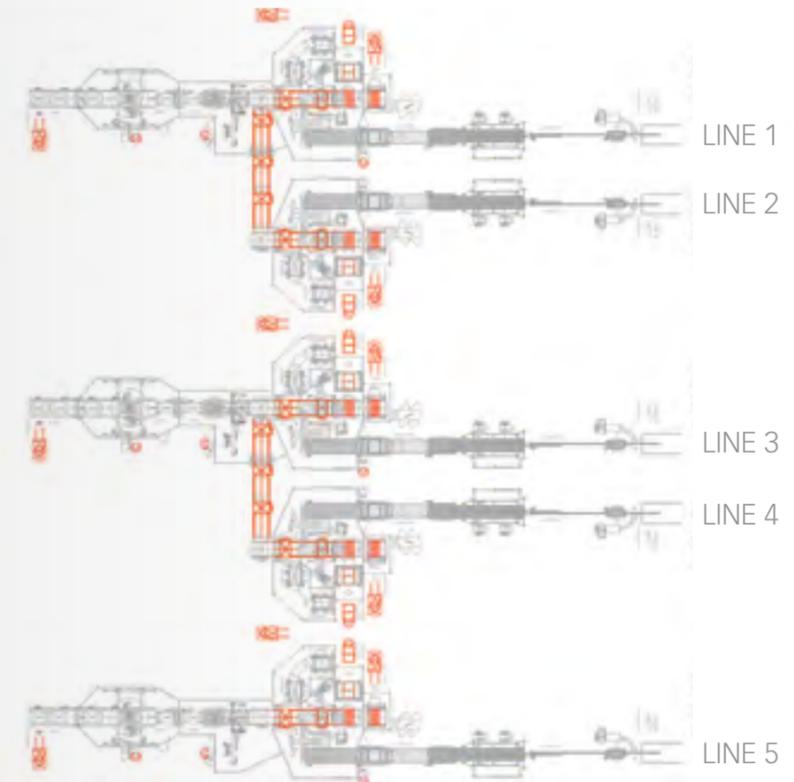
Option

■ In case the moving system is a ROBOT, the bottle palletizing head may also be equipped with:

- vacuum cups for layer separators and/or top frames pickup;
- hooks for top frames and/or empty pallet pickup;
- pickup system for packs;
- pickup system for opened or closed full cartons.

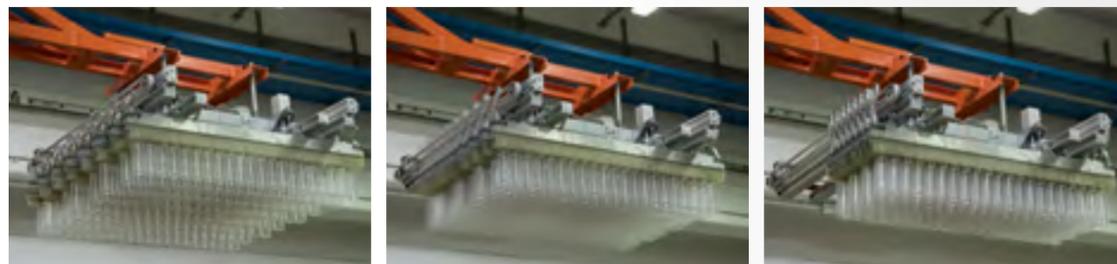
■ POSSIBILITY OF HANDLING 2 DIFFERENT PRODUCTS AT A TIME.

In case the necessity is to handle 2 different products at a time, the employ of a Robot as Head Moving System, makes the RBR Palletizer the Ideal solution if not the only possible way to do this.



Focus on

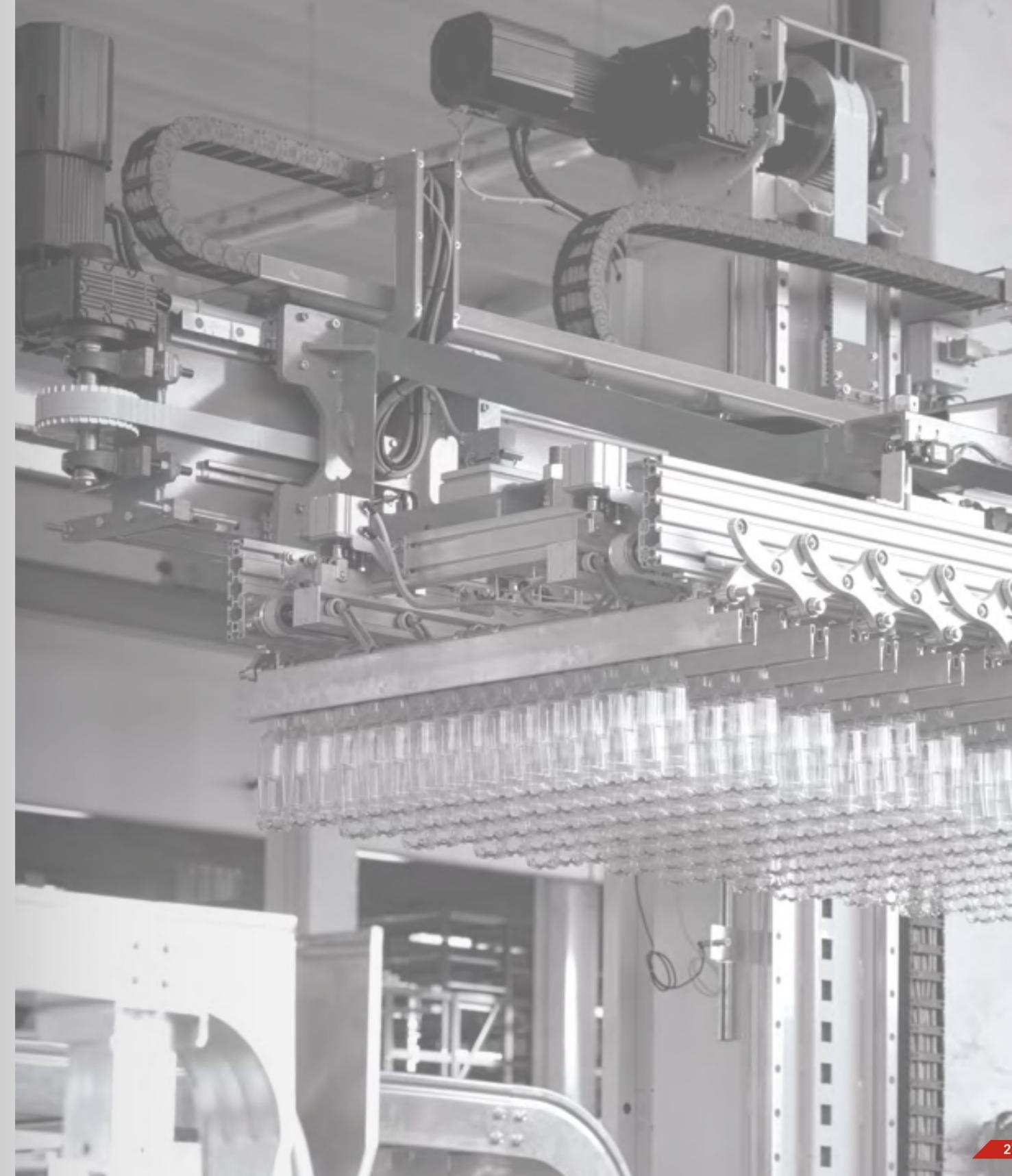
- **PUSH BUTTON CHANGE OVER**
No need of tools to change over the format.
 - Reduction of down-times = higher efficiency;
 - recipe based adjustments = higher efficiency;
 - no need of specialized personnel;
 - no particular training required.
- **TOTAL BOTTLE CONTROL**
The head drives the bottle rows to the right pitch thus depositing them on the pallet already in the right setting which guarantees their stability.
- **ABSENCE OF THE PALLETIZING TABLE**
No intermediate stop during the row formation. The bottles are picked up directly from the infeed conveyors and released onto the pallet.
 - Reduced number of passages for the bottles = less problems;
 - reduced number of critical areas;
 - reduced number of areas needing maintenance;
 - reduced footprint.
- **INTERLEAVER COLUMN**
Tier sheets and top frames are normally handled by an independent column.

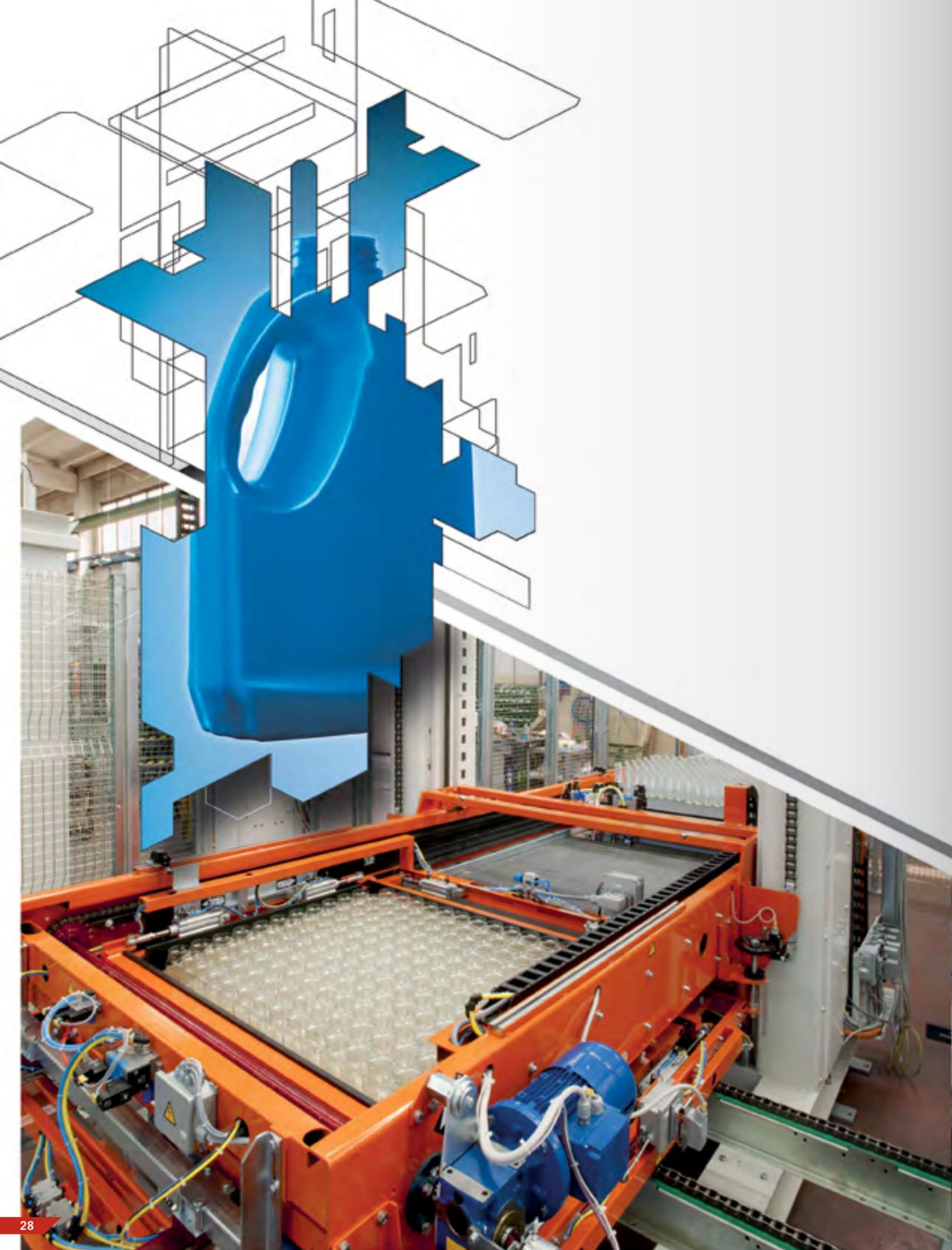


- **EASY PAL**
The EASY PAL palletizer is the original patented machine designed by Zecchetti to cope with the output of the fastest Blow Moulders existing on the market. Hundreds of machines have been working for years at very high speeds (up to **120.000 bph**).
RBR Easy Pal is an evolution of this original machine which still is the very machine in case of high speed requests on cylindrical containers.

Benefits

- **SAFE AND CAREFUL CENTERING**
Bottle rows are constantly retained during the squaring operations so, bottle instability and bottle fall causes are completely eliminated:
 - defective layer separators are not affecting the bottle stability;
 - electro-static charges on the bottles are not affecting bottles stability;
 - sticky bottles are handled without problems;
 - possible shifting of the layer separator is avoided;
 - layer separators are always perfectly centered.





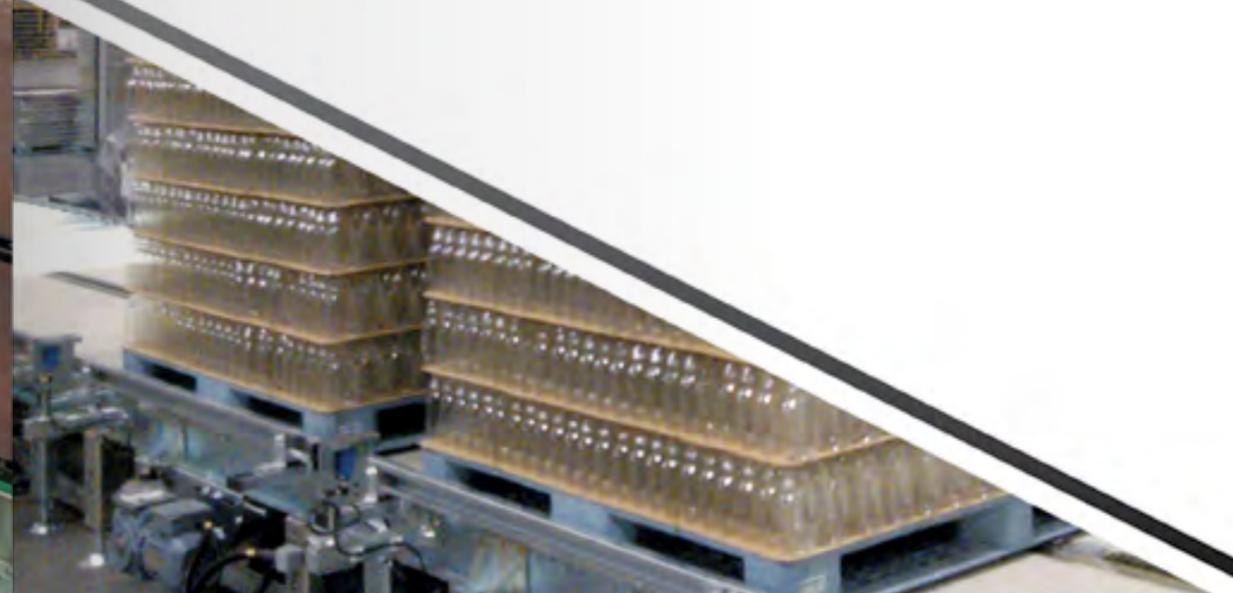
ACCESSORY EQUIPMENT - SPECIAL, COMPLEMENTARY SYSTEMS

THE RIGHT SOLUTION FOR EVERY NEED OF THE PLASTIC CONTAINER HANDLING

60 years of experience in manufacturing automated machines allow Zecchetti to present a range of equipment able to cover all needs of empty plastic container handling.

Moreover, thanks to their Logistic Division "Zmagazzini", Zecchetti can also propose automated solutions for the full pallet storage and their loading on lorries.

Of high interest are also the Vertical Automated Warehouses used for the storage "in good order", in optimized spaces and in a guarded way of spare parts, change parts and molds.



Equipment

■ PALLET HANDLING CONVEYORS

To complete the automated lines, the insertion of several modules for the pallet motion is necessary.

It is essential that these conveyors are designed to match with all the existing pallet types. It is in fact important that such conveyors cover their way to the dressing station in a soft and smooth manner.

Only in this way the load will be protected by preventing the fall of containers, particularly the external ones, which would damage the pallet integrity at the expense of the product quality.

It is also extremely important that their design let them be crossed by the operators, where necessary, and make them shielded against the FLT "attacks".

Many solutions are available to respond to every need.

- Simple or double chain conveyors (2-3-4-5 and 6 lanes);
- driven roller conveyors with various pitches;
- gravity roller conveyors;
- 90° lateral transfer units composed of rollers+chains or chains+chains for any need and any load;
- roller or chain turntables;
- roller or chain lifting platforms for change of level;
- more level combined conveyors.



■ TRAY FORMERS

The Zecchetti Tray Formers are able to match with all requirements for the formation of trays or specific top covers to serve one palletizer or to work as a part of a centralized system common to various palletizers.

A wide range of adjustments is guaranteed, for the tray sizes and for the flap sizes.

Several versions of Tray Formers are available such as:

- flap closure: by glue, by staples, by click-in system;
- format change over: manual, by hand wheel, automatic;
- configuration: movable on wheels, fixed with manual loading of the blank pallet, with automatic loading.



■ SHUTTLE CARS

Generally, an automatic system needs to automatically feed and extract empty and full pallets to and from various palletizing lines, towards the dressing, the loading bays or the warehouse. To perform these operations by keeping the access to the lines free, Automatic Linear Shuttle Cars are normally used.

The reliability of these Shuttle Cars is just as important as that of the palletizers; the whole production travels on such equipment.

The experience has brought Zecchetti to adopt the best and most advanced solutions: positioning through laser systems, power to the on board cabinet through bus-way, Wi-Fi signal transmission, accident prevention through PLS protection.

The construction range includes:

- 1-2-4 pallet stations;
- with or without top press;
- with or without approaching;
- etc.

■ PALLET STRAPPING

Various strapping systems (of the main brands) for the full pallet can be proposed, either featuring an "upper" strapping head without pressure top (as OMS) or featuring a "lateral" strapping head with upper pressure top (as MESSERSI').

■ PALLET WRAPPING BY STRETCH FILM

In some situations, and usually on pallets previously strapped, the load stabilization/protection is done by wrapping the pallet with various spirals of polyethylene stretch film.

In addition to that, usually, a top cover is also included in order to protect the pallet from weather agents.

Zecchetti may include in their lines Stretch Wrapping Equipment of the main brands such as Robopac, OMS, Strapex, etc.



Equipment

■ PALLET LABELLING

Various solutions are also available to label the finished pallets. Some of the possible options:

- Label size: A4, A5, Etc.;
- label position: on one or more pallet sides; at a fixed or variable height;
- labelling: before or after the pallet hooding, with information tracking.



■ EMPTY BOTTLE DEPALLETER

Zecchetti's know-how in the empty bottle handling is a guarantee even when speaking about bottle depalletizers. Based on the bottle type and consequently on the downstream conveying line Zecchetti can supply the most suitable equipment.

- High-Level bottle discharge
"SWEEP-OFF" type DEPALLETER MOD. Depal 800
Depalletizing layers of bottles and single-filing them for feeding to a downstream Air Conveyor;
- low-level bottle discharge
"SWEEP-OFF" type DEPALLETER MOD. Depal 50
Depalletizing layers of bottles and single-filing them for feeding to a downstream Table Top Conveyor.



■ BOTTLE PACKAGING INTO CARTONS



Tray-Carton Packer including:

- Continuous splitter for the row preparation;
- Packer for tray/carton filling.

■ MASS FLOW CONVEYORS

Mass flow conveyors to move in a safe and careful way also bottles in bulk.

- The peculiar shape of the conveyor frame prevents bottles from jamming and/or being damaged;
- all parts in contact with the bottles are manufacture in AISI 304 stainless steel;
- the conveying belts may be in PVC or plastic modular chain, according to the production type;
- a wide range of frame dimensions is available so to be able to supply the most suitable conveyor per every need (from 20 cl. Preforms to 5 lt. big containers).



■ VERTICAL AUTOMATED WAREHOUSE (with trays)

A major problem of the glassworks is the storage of all the accessories for the various production equipment such as spare parts, change parts, moulds, or consumables. With the Zecchetti vertical automated warehouses with trays it is possible to protect and monitor all the stored material by identifying in real time the available quantity, the reorganization needs, the value of the stored goods, regardless of their location. By suitably equip the trays, the storage and retrieval of moulds can be carried out in an ideal mode, and the trays themselves can be directly placed in the preheating. Thanks to their flexibility in terms of dimensions and construction, the Zecchetti vertical automated warehouses are the idea solution **to solve in one go all problems of space, security, protection and efficiency** of the glasswork internal warehouse.

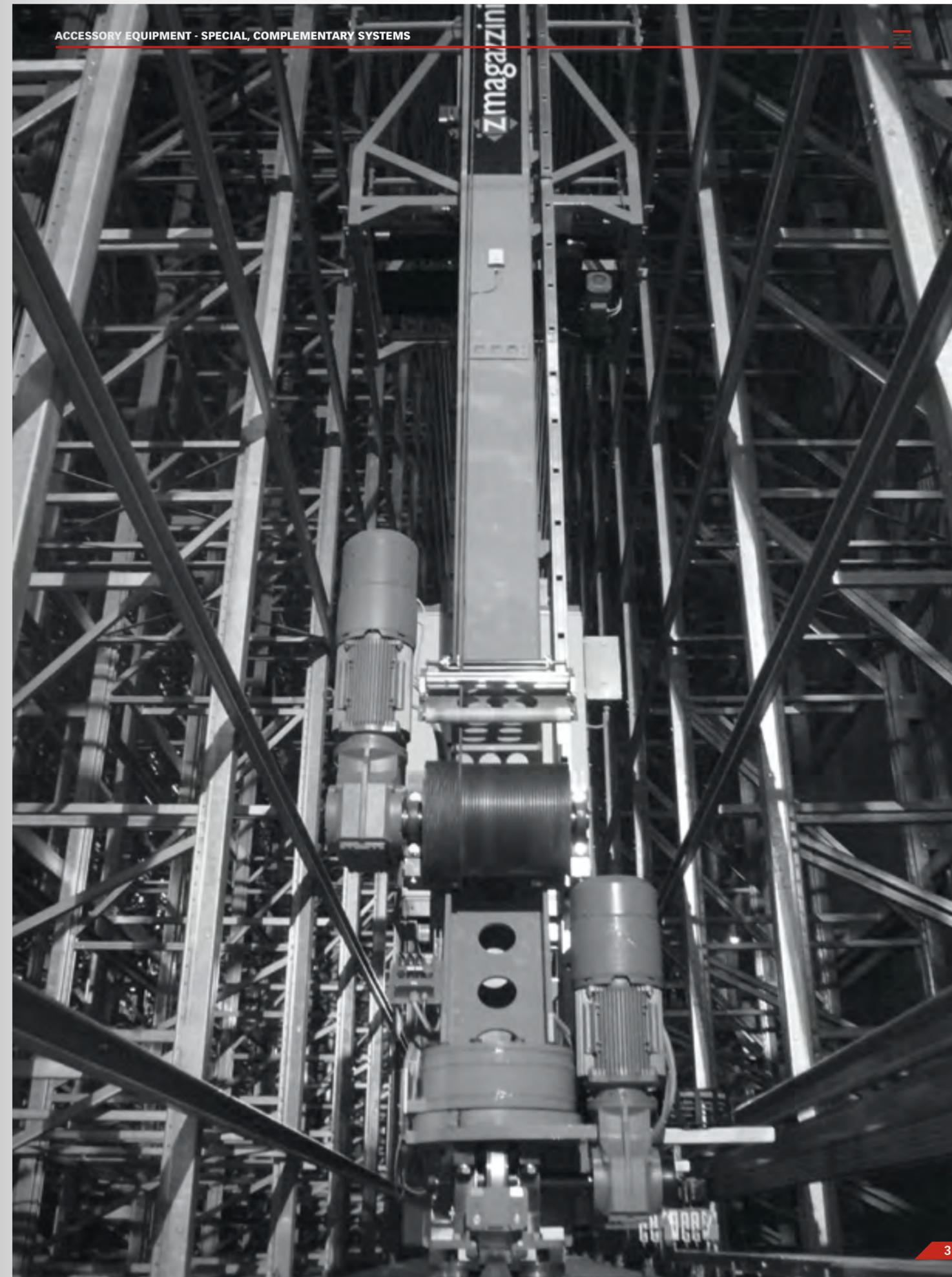


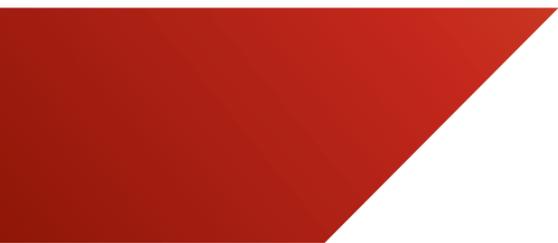
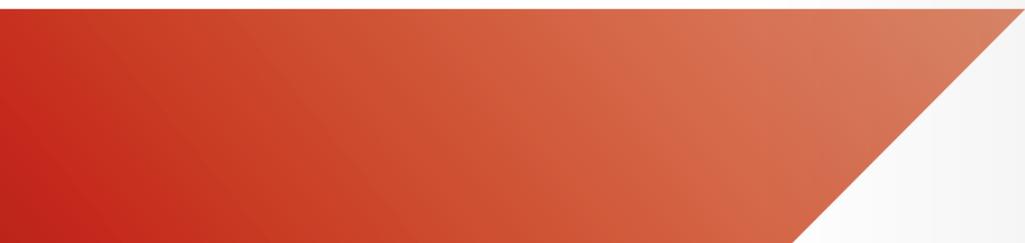
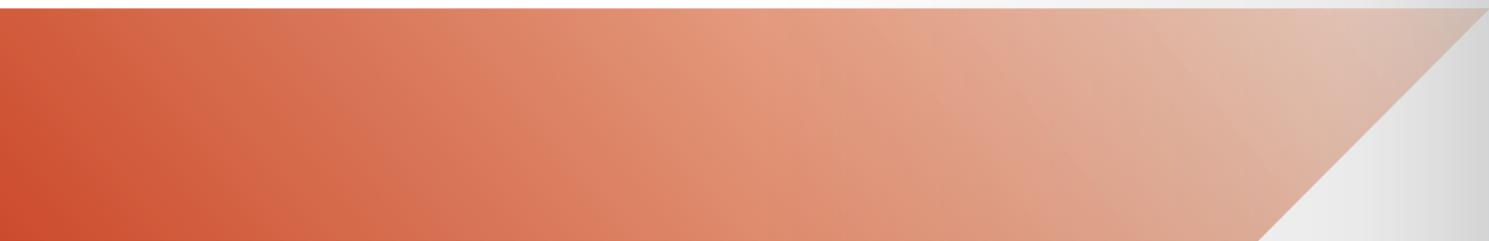
■ PALLET AUTOMATED WAREHOUSES - "TRASLO" STACKER CRANES

As a completion of the Production-Logistic chain Zecchetti, thanks to its LOGISTIC DIVISION Zmagazzini®, proposes the complete automation of the PALLET WAREHOUSE.

The reduction in warehouse space, the total integration with the production and control systems make the Zecchetti automated warehouses an ideal solution.

The rapid pay back of the investment is even more interesting in those situations where the available space is quite reduced, particularly during the production facilities expansion. The systems, besides the usual loading bays for the order shipping which foresee the extraction and the trucks loading by means of forklifts, can be completed with fully automated truck loading systems.





www.zecchetti.it



