



“Art of MOVING
FORWARD”

Vetromeccanica



“Our HISTORY and VISION”

We are pleased to introduce Vetromeccanica, producer since 1989 of conveyor lines for PET and plastic bottles. Vetromeccanica's long experience allows us to produce extensive bottle conveying facilities to our clients' exact specifications.

Vetromeccanica is a company specialized in the realization of automatic conveying systems for internal handling for loose and packed containers. We design and manufacture conveyors and accumulation tables for glass, PET and HDPE bottles, jars, cans, crates, cartons and shrinks.

Conveying systems built by our company are in operation all around the world in most of the major bottle producers. We can offer innovative solutions for glass, beverage, food and dairy industry. Moreover, our great experience allow us to overhaul and upgrade existing conveyor lines.

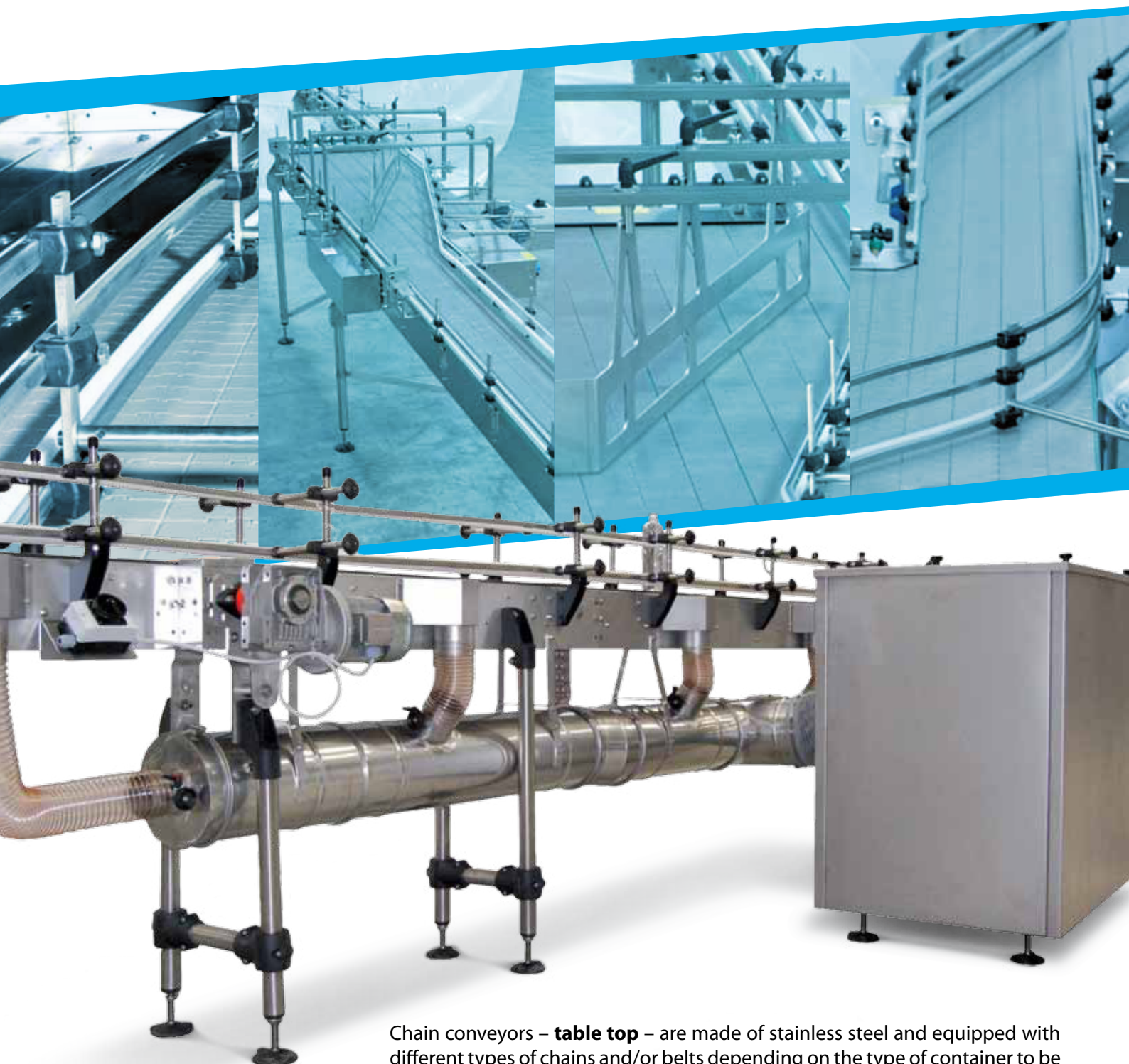
A sampling of the Vetromeccanica conveyors:

- > Air Conveyors for PET bottles
- > Table top conveyors
- > Accumulation Tables FIFO
- > Vacuum assisted conveyors
- > Bulk conveyor
- > Pre-form conveyors
- > Bottle dryers
- > Bottles and packs dividers
- > Tilting conveyors

“TABLE TOP CONVEYOR BELTS”

Vetromeccanica s.r.l. designs and produces conveyor belts for the Food and Beverage industry and is at your side to develop the most suitable technical solutions for the internal handling of bulk or packaged goods.

The completely modular concept of handling guarantees maximum flexibility in the layout, great quickness in accomplishment and in the subsequent installation and the possibility to integrate easily with existing lines.



Chain conveyors – **table top** – are made of stainless steel and equipped with different types of chains and/or belts depending on the type of container to be treated or on the function that each section of the belt covers.

In case it is necessary to carry empty and particularly unstable containers, it is possible to equip our table top conveyors with a vacuum assisted device in order to increase stability.

Vetromeccanica conveyors are characterized by low levels of energy consumption, mechanical robustness and constructive care; they feature wet, soap or synthetic-based, or dry lubrication systems.

“PACK CONVEYORS”

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Pack Conveyors

The modular design of Vetromeccanica's bundle conveyors are developed and sized according to the product to be conveyed. They can be single or multi-way, equipped with manual lateral guides or provided with automatic format change.

Our conveyor belts are designed to quickly and easily integrate with the different machinery that is part of a production line such as handle applicators, palletisers and dividers.

The passage from one belt to another is possible via rollers with different diameters to optimise product conveying.



Belts for cartons

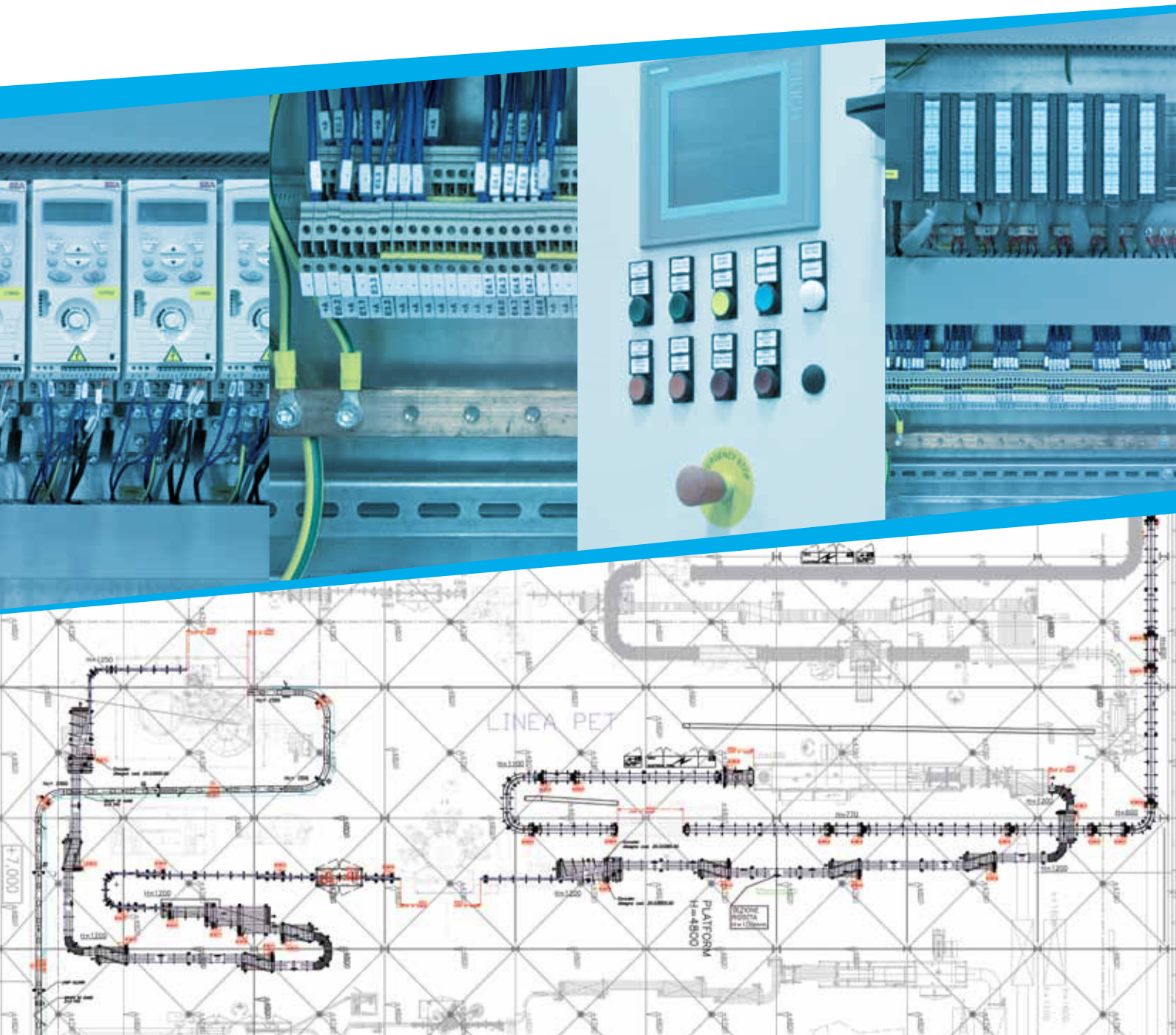
Depending on the type of line and loads to be handled, these conveyor belts can be built using chain rings (for heavy loads) or tangential chains (medium-high workloads). For both versions, the product towing chains are fully protected to ensure maximum safety for the line operators.

All our roller conveyors are equipped with shut-off systems, which are particularly useful in controlling accumulation zones.

The sections are curved with tapered roller pitch reduced to optimize product conveying.

“COMPLETE LINES”

In order to provide the customer with a **“turnkey”** system, we directly deal with the study and planning of the automation line, we develop software and hardware all the way up to the **final inspection** of the system at the customer's plant. The overall efficiency of the line is largely determined by the development of a software project designed for the individual needs of each manufacturer.



We are more than ever convinced that the efficiency of a plant mainly depends on the continuous development of the automated system of the line conceived as a network that turns a series of machines into a system that interacts and communicates constantly.

In particular, our management software is based on **“Energy Saving”** logics, so as to minimize the consumption level of the system.

All our electrical switchboards, made with high-quality components, are pre-tested at our facility in order to provide a **“ready to run”** system.

We also provide low voltage distribution switchboards for the power supply of all utilities present on the line.



“AIR CONVEYORS”

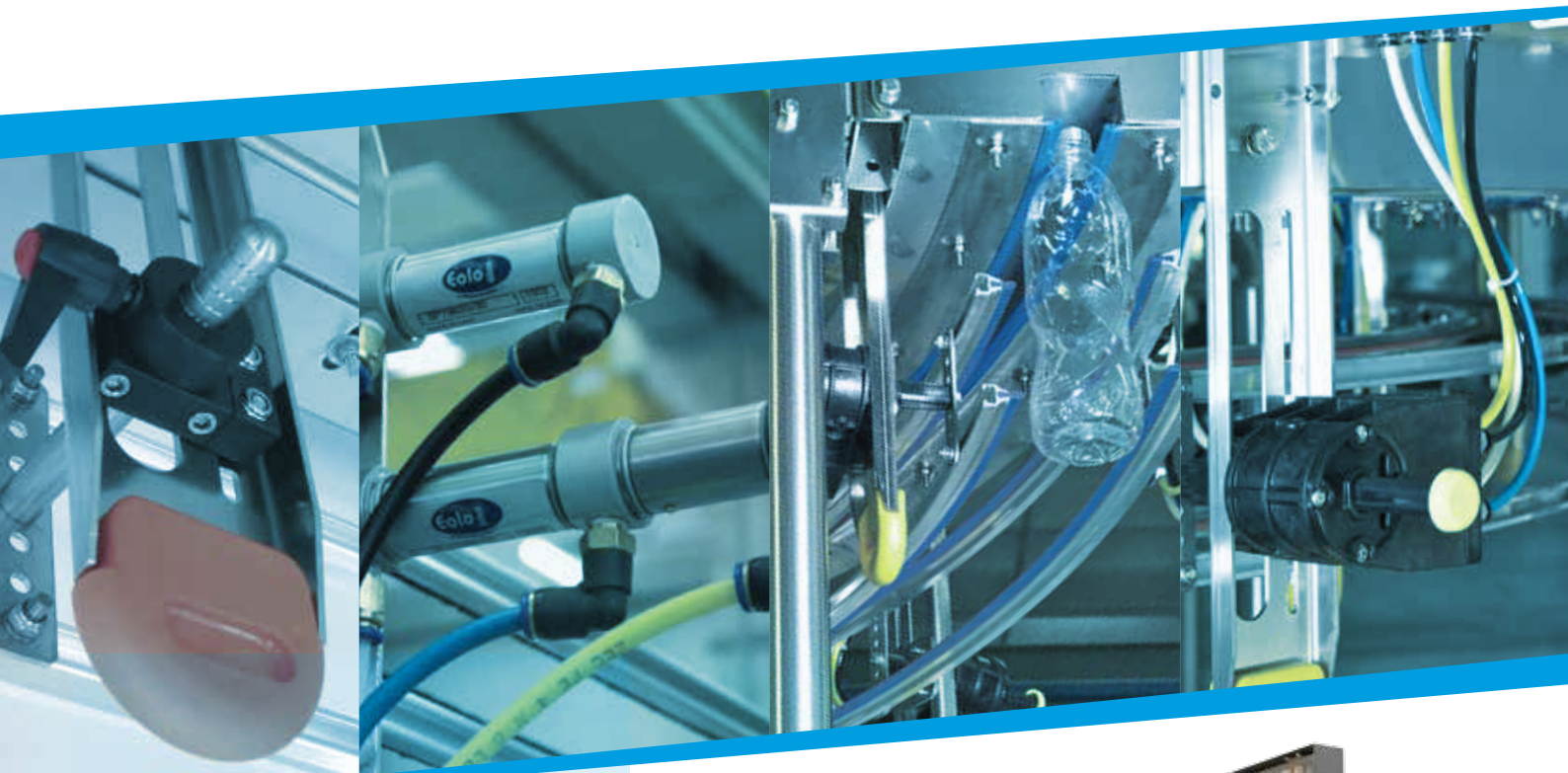
Air conveyors

The ruggedly constructed Eolo air conveyors are built from thick gauge stainless steel in order to stand up under the most demanding industrial conditions. Air conveyor segments are freestanding and load tested for maximum structural stability. Wherever system routing conditions require special mounting, for example, along ceilings, high above walls, etc., the air conveyor segments utilize appropriate structural supports that guarantee sufficient structural integrity of the plant.

Control Equipment

Standard control equipment includes an inverter for motor speed control, mounted in the main electrical cabinet, directly on the motor itself, or in intermediate field control panels placed at regular intervals along the air conveyor line. Control equipment comes with our management software based on “Energy Saving” logic, so as to minimize the consumption level of the system. Each electrical switchboard, is made with high-quality components, and is pre-tested at our facility in order to provide a “ready to run” system.





Air conveyors

Bottle body guides in plastic UHMW material align the empty bottles in the conveyor trajectories. These non-abrasive guides are adjusted to the correct lateral position for each bottle diameter by hand through spring-loaded quick-release supports, by automatic air cylinder supports or through EMD moving devices which provide several positions.

Each conveyor segment is powered by a single blower fan mounted in any 90° compass orientation on top of the air conveyor structure. The type of filter on each air blower can be specified by the customer.

STANDARD

Single stage prefiltering G3 / G4

Arrestance by weight % (Am)

G3 $80 \leq Am < 90$

G4 $90 \leq Am$



CLEAN

Prefiltering G3 and Canister

Post Filtration F7 / F9

Overall efficiency % (Em)

F7 $80 \leq Em < 90$

F9 $95 \leq Em$



ULTRA CLEAN

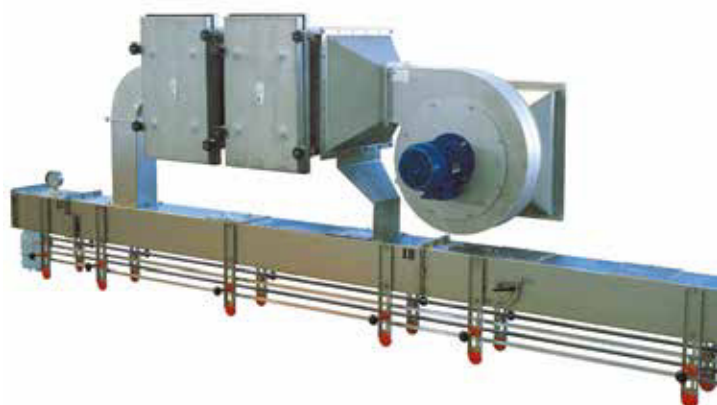
Prefiltering G3 and double Canister Post Filtration F7+H14

Overall efficiency % (Em)

H13 99,95

H14 99,995

For the highest hygiene demands it's possible to install transparent plastic panels for conveyor enclosure preventing bottle contamination.



“EOL MOVING DEVICE EMD”

EMD offers advanced automation for **beverage industry** based on glass-filled polyamide actuators. They are easy to clean and they have been thoroughly tested to withstand strong detergents and other cleaning demands.

Moreover, pneumatic actuators contain no toxic or potentially harmful oil, which makes our **EMD** the perfect solution for the beverage industry.

Customers will benefit from low costs, easy installation and integration with our standard control systems, and will value smooth operation and long lifetime, because pneumatic actuators require no maintenance.

Last but not least, a truly innovative actuator solution could very well guarantee to the customer a great advantage.

EMD will gladly help the customer to develop new ideas and visions. In fact they will have the possibility to handle **infinite bottle formats without adding guides and cylinders** but simply adjusting our **EMD** from the electrical control panel.



The main range of applicability is the handling and conveying system of different containers, in particular the lateral side guide registration both on the vertical and the horizontal axis.

EMD main features are the great reliability, the solidity and above all it's extremely user friendly.

Moreover our **EMD** can guarantee:

- Great versatility in different industrial fields: beverage, food, packaging, personal and home care.
- Low application costs: pneumatically activated, no electric circuits, controlled by standard PLC
- Low operation costs: reduced air consumption
- Retrofitting existing line is easy and possible at any time

MECHANIC FEATURES

Traction/thrust force: 250N ca. Nominal

Precision: $\pm 0.1\text{mm}$

Air Consumption: 5 l/cycle

Limit Stop: Mechanic stop

Positioning: Through PLC

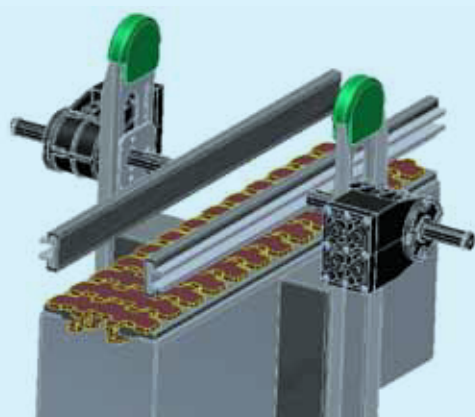
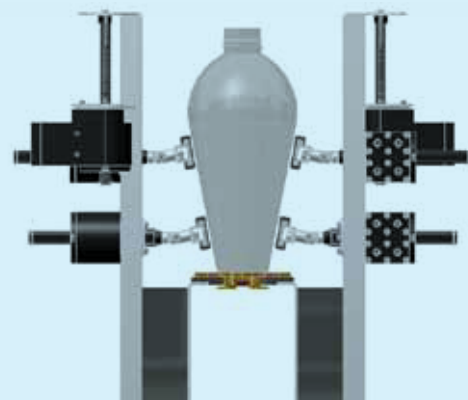
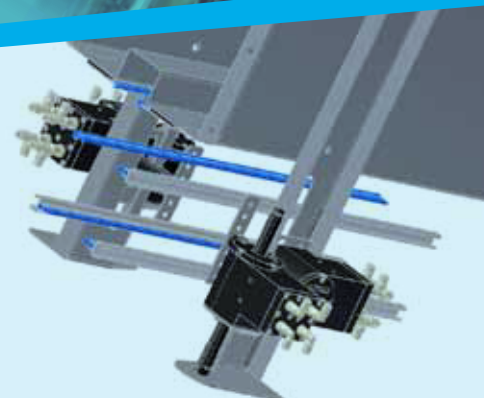
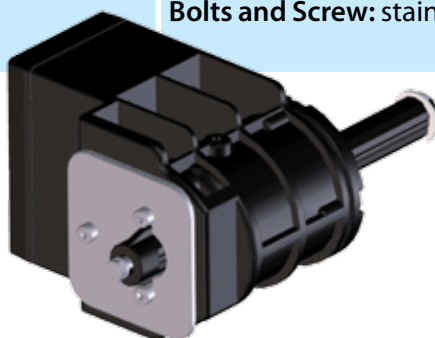
MATERIAL

Body: Glass filled polyamide

Threaded spindles: Carbon filled polyamide

Propeller: Acetal Resin

Bolts and Screw: stainless steel AISI 304





“BEYOND
the LIMIT”

 **Vetromeccanica**

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